

WL

SEP 28 A7:34

RECEIVED
September 28, 1993

FOR IMMEDIATE RELEASE

Contact: Barry Mizuno
528-5225

Title: PUNA GEOTHERMAL VENTURE BACK ON-LINE

Puna Geothermal Venture (PGV) completed its installation of the redundant control system from the power plant to the steam well pad and other planned maintenance on Tuesday, and restarted their generators around 5 p.m. Completion of the planned activities took longer than initially anticipated, but no major problems were encountered.

Minor fugitive emissions did occur during the shutdown, however there were no permit violations.

PGV's 25 megawatt power plant has been operational since April 21 and has supplied over 75 million kilowatts to the HELCO grid. The redundant control system was installed as an improvement to overall power plant and well field operations.

###

Post-It [®] brand fax transmittal memo 7871		# of pages
To	Keith Ahue	
From	Steven Morris	
Co.	DLNR	
Co.	Puna Geothermal	
Dept.	Phone #	
	528-5225	
Fax #	587-0390	
	Fax #	
	524-9349	

RECEIVED
93 SEP 30 AM 11:00
DIV. OF WATER & LAND DEVELOPMENT

PUNA GEOTHERMAL VENTURE

A Hawaii Partnership

RECEIVED

93 OCT 8 9:38

DIV. OF WATER &
LAND DEVELOPMENT

October 7, 1993

Mr. Manabu Tagomori
Department of Land and Natural Resources
Division of Water and Land Development
P. O. Box 373
Honolulu, Hawaii 96809

Dear Mr. Tagomori,

The following is the electricity sold to HELCO during the month of August, 1993. The information was provided to us from HELCO and agrees with their monthly statement.

On-peak Kilowatts	11,317,602
Off-peak Kilowatts	<u>7,387,022</u>
Total for August	18,704,624

The September production will be reported to us around October 20 and will be reported to you shortly thereafter.

Very truly yours,



Barry T. Mizuno
Financial Manager

cc. Steven E. Morris
ref.1007prod

FROM: 80

DATE: 9/29/93

FILE IN: _____

TO:

INIT:

PLEASE:

REMARKS:

Show _____ M. TAGOMORI
 _____ L. Nanbu
 _____ G. Akita
 _____ L. Chang
 _____ E. Lau
 _____ A. Monden
 ✓ py _____ H. Young
 _____ T. Kam
 _____ G. Miyashiro
 _____ D. Lee
 _____ A. Yim
 _____ Janet
 _____ Uta
 _____ Chico
 _____ R. LOUI
 _____ S. Kokubun

_____ See Me
 _____ Call
 _____ Review & Comment
 _____ Take Action
 _____ Investigate & Report
 _____ Draft Reply
 _____ Acknowledge Receipt
 _____ Type Draft
 _____ Type Final
 _____ Xerox _____ copies
 _____ File

FOR YOUR:

_____ Approval
 _____ Signature
 _____ Information

PUNA GEOTHERMAL VENTURE

A Hawaii Partnership

September 25, 1993

FOR IMMEDIATE RELEASE

Contact: Steven E. Morris
(808) 965 6233

Title: PGV Planned Week-End Maintenance Shut-down Update

Puna Geothermal Venture announced activities were progressing in its planned two day shut-down of the 25 megawatt power plant. PGV began reducing its power output around 9 p.m. last night and was completely off the HELCO grid around 10:30 p.m..

"We have been making progress on installing the redundant control system from the power plant to the steam well pad and performing other planned maintenance," stated Steven Morris, vice-president and general manager. "We have had some very minor fugitive emissions while shutting in the facility," said Morris. There have been no permit violations.

In a separate incident, two PGV employees were exposed to caustic soda and were sent to Hilo Hospital for further treatment and were expected to be released. Caustic soda was being used to clean out certain surface pipes after the wells were shut in. The incident was unrelated to the geothermal resource and involved no emissions.

RECEIVED
63 SEP 28 8:11:13
DIV. OF WATER &
LAND DEVELOPMENT

GENPP 19-1
H-W/G



Warren H. W. Lee, P.E.
President

August 6, 1993

RECEIVED
93 AUG 10 P 1:31
DIV. OF WATER &
LAND DEVELOPMENT

DIVISION OF WATER AND LAND DEVELOPMENT

FROM: JS DATE: 8/4 FILE IN: _____

TO: INIT: PLEASE: REMARKS:

☐	☐	M. TAGOMORI	☐	See Me	<u>Discontinued</u> <u>File # 14</u>
☐	☐	L. Nanbu	☐	Call	
☐	☐	G. Akita	☒	Review & Comment	
☐	☐	L. Chang	☐	Take Action	
☐	☐	E. Lau	☐	Investigate & Report	
☐	☐	A. Monden	☐	Draft Reply	
☒	☐	<u>Young</u>	☐	Acknowledge Receipt	
☐	☐	G. Kam	☐	Type Draft	
☐	☐	G. Miyashiro	☐	Type Final	
☐	☐	D. Lee	☐	Xerox _____ copies	
☒	☐	A. Yim	☐	File	<u>file PGU Power plant</u>
☐	☐	<u>Chris</u>			

FOR YOUR:

☐	☐	R. LOUI	☐	Approval
☐	☐	S. Kokubun	☐	Signature
☐			☐	Information

**PUNA GEOTHERMAL VENTURE
PROJECT SITE**

PHONE: (808) 965-6233

FAX: (808) 965-7254

Mailing:

Physical:

P.O. Box 30
Pahoa, HI 96778

14-3860 Kapoho-Pahoa Road
Pahoa, HI 96778

FACSIMILE COVER PAGE

Sent to: K. AHUE

From: Tom K

Company: PLNR

Date: 6-9-93

Fax No.: 587-0390

No. of Pages: 2
Includes Cover Sheet

NOTE: If you have difficulty receiving this FAX, please call above phone number. Ask for:

THE ATTACHED WILL BE SENT TO
ALL RESIDENTS ON OUR MAILING
LIST TODAY - WE WILL ALSO IN-
CLUDE THIS INFORMATION ON OUR
PGV INFORMATION LINE.

ALSO, FYI, THE KS-10 WELL
CLEANOUT IS SCHEDULED FOR
THURSDAY, JUNE 17TH.

PLEASE CALL W/ QUESTIONS -

PUNA GEOTHERMAL VENTURE

A Hawaii Partnership

June 10, 1993

Dear Neighbor,

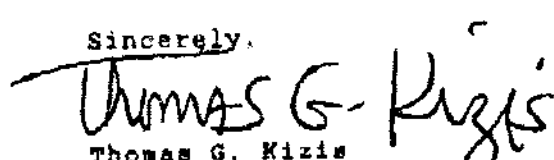
We would like to let you know that we will be testing our site warning siren each month beginning in July of this year. The siren is located at our power plant facility.

Our siren testing schedule will be identical to the State Civil Defense monthly siren and Emergency Broadcast System (EBS) test schedule. We will test on the first working day of every month at 11:45 a.m. for a period of approximately one minute in duration. The initial test of the Puna Geothermal Venture (PGV) site warning siren will occur on Thursday, July 1, 1993 at 11:45 a.m. These tests will be ongoing and occur monthly.

These tests will be coordinated with State and County agencies.

Please call me if you have any questions.

Sincerely,


Thomas G. Kizis
Environmental Manager

c: H. Kim, CDA
J. Lewin, DOH
K. Ahue, DLNR
V. Goldstein, HCFD



ST,

DEPARTMENT OF L

DES

REF:WL-LC

HC

MAY 24 1993

KEITH W. AHUE, Chairperson
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

JOHN P. KEPPELER, II
DONA L. HANAIE

AQUACULTURE DEVELOPMENT
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RESOURCES ENFORCEMENT
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FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
PROGRAM
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

Mr. Warren Lee
c/o Hawaii Electric Light Company, Inc.
P.O. Box 1027
Hilo, Hawaii 96721

Dear Mr. Lee:

Puna Geothermal Venture

We request your consideration to revise Hawaii Electric Light Company's (HELCO) operational procedure to allow Puna Geothermal Venture's (PGV) power plant to remain "last-on-line" in the event of a total power shutdown of your system.

The geothermal resource which "fuels" PGV's power plant is a steady flowing energy source. This energy source is characterized by high temperature and pressure which does not readily allow it to be turned on and off at a moment's notice. Any rapid opening and closing of the geothermal resource may impact the structural integrity of the well. By allowing PGV to remain "last-on-line" would minimize any impacts.

Your cooperation on this matter would be greatly appreciated. Should you have any questions regarding our concerns, please contact Mr. Manabu Tagomori of the Division of Water and Land Development at 587-0230.

Very truly yours,


KEITH W. AHUE

bc: Mr. Eric Tanaka, DOWALD



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P.O. BOX 621
HONOLULU, HAWAII 96809

REF:WL-LC

MAY 21 1993

KEITH W. AHUE, Chairperson
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

JOHN P. KEPPELER, II
DONA L. HANA'IKE

AQUACULTURE DEVELOPMENT
PROGRAM
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RESOURCES ENFORCEMENT
CONVLYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
PROGRAM
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

Mr. Steven Morris
Vice President
Puna Geothermal Venture
745 Fort Street Mall
Honolulu, Hawaii 96813

Dear Mr. Morris:

Power Plant

We would appreciate receiving from you a report to explain the shutdown of the power plant, which occurred on May 11, 1993. We are concerned with the events that caused the shutdown of KS-9 production well for approximately 35 minutes.

We understand that when Hawaii Electric Light Company (HELCO) knocked off the power plant from their grid, the back-up generator, which should have operated, did not operate. Therefore, without any power, the control valves at KS-9 automatically closed. Prior to this shutdown, we were led to believe that operational adjustments had been made to prevent the complete shutdown of the production well. We are concerned that continued shutdowns such as the events of May 11, 1993 may affect the structural integrity of the production well.

Should you have any questions regarding this matter, please contact Mr. Manabu Tagomori of the Division of Water and Land Development at 587-0230.

Very truly yours,

KEITH W. AHUE

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 30, 1994

Well No. Powinn Plant Contractor PLW

DESCRIPTION OF ACTIVITIES

at 2100 p.m. RUNNING 10 UNITS. Producing
27.4 mw. out. Flow Rate of 470,000 $\frac{ft^3}{hr}$ Steam
Pilotage Pressure 195 psig Temperature out of
Separators - 404°F. Cooled Water - 168-9 Unit Log
only - 3' Valve open 55% - 8' Valve open 50% -
16-10 First Log only - 3' Valve open 50% - 8' Valve
open 45% - Running at 234 psig at 135°F.
One 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Eric Tulin

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 29, 1994

Well No. Poway Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:30 p.m. RUNNING 10 UNITS - PRODUCING -
28.0 mm. Nat. Flow Rate of 470,000 #/hr steam -
Flow Line Pressure 193 psf - Temperature out of
Separators 404°K - Control Valve - 1/5-9 West
Leg. only - 3" valve open 55% - 8" valve open 49%
1/5-10 - First Leg only - 3" valve open 50% - 8" valve
OPEN 53% - Reconnection at 268 psf at 141°K -
On 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather RDEN

Submitted by Eir Omb

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 28, 1994

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:45 P.m. RUNNING 10 UNITS - PRODUCING
28.2 m.w. Net - Flow Rate of 470,000 gpm Steam
Flow Line Pressure 197 PSI - Temperature out of
Separators 465°F - Control Valves - K3-9 West
Leg only - 3" Valve open 55% - 8" Valve open 49%
K3-10 East Leg only - 3" Valve open 50% - 8" Valve
open 52% - Reconnection at 271 PSI at 142°F -
On 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather

Good

Submitted by

E. A. Aul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 27, 1954

Well No. Power Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 2:20 p.m. Running 10 units. Producing
28.0 mscf/hr. at - Flow Rate of 465,000 #/hr Steam
Flow Line Pressure 198 psf - Temperature out of
Separators 405°F - Control Valves - 1K8-9 Control leg
only - 3" Valve open 51% 8" Valve open 53% -
1K8-10 Control leg only - 3" Valve open 50% - 8" Valve
open 48% - Pressure at 268 psf at 141°F.
Occ. 11, 12, 13, 14, 15, 17, 23, 24, 25 Running

Weather Good

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 23, 1994

Well No. Rowan Plant Contractor Plus

DESCRIPTION OF ACTIVITIES

At 2:05 p.m. RUNNING 10 units - Producing
27.7 MW. MWT - Flow Rate of 400,000 #/hr Steam.
Flow Line Pressure 201 psc - Orphanette out
of Separator 405° - Control Valves - 1K-9 - West
leg only - 3" valve open 50% - 8" valve open 100% -
1K-10 - East leg only 3" valve open 50% - 8"
valve open 50% - Regulation at 209 psc at 141° -
On 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Eric Taha

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 22, 1994

Well No. Powena Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:00 P.M. RUNNING 10 units - Producing
27.2 mm. net Flow Rate of 470,000 #/hr steam.
Flow Line Pressure 197 psig - Temperature out of
Separators - 405°F - Control Valves - 165-9 - Unit
Leg only - 3" Valve open 59% - 8" Valve open 52% -
163-10 First Leg only - 3" Valve open 50% - 8" Valve
open 48% - Recondition at 209 psig At 142°F -
OIL 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by Eric Osh

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

2000-10-11
10-11-11

DAILY REPORT

Dec 21, 1994

Well No. Pouma Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 1:00 P.m. Running 10 units - Producing
26.9 m.w. Nat- Flow Rate of 465,000 #/hr steam
Flow Meter Pressure 195 psi - Temperature out of
Separators 463°F - Control Valve KS-9 West Leg
only - 3" valve open 60% - 8" valve open 53% -
KS-10. East Leg only - 3" valve open 50% - 8" valve
open 49% - Pressure at 262 psi at 159°F -
Oil #11, 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Cloudy

Submitted by Jim Aul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 20, 1994

Well No. Powena Point

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 2:00 pm Running 10 units. Producing
26.9 m.w. nat. Flow Rate of 465,000 #/hr Steam
Flow Line Pressure 193 psi - Temperature
out of Separators - 402°F. Control valves - 145-9
West leg only - 3" valve open 50% - 8" valve open 58%
145-10 East leg only - 3" valve open 50% - 8" valve
open 44% - ReInjection at 260 psi at 129°F -
Dec. 11, 12, 13, 14, 15, 20, 22, 23, 24, 25 Running

Weather Cloudy

Submitted by Eric Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 19, 1994

Well No. Power Plant

Contractor PGO

DESCRIPTION OF ACTIVITIES

At 1:35 PM RUNNING 10 units - Producing
27.4 mm. Net Flow Rate of 470,000 #/hr Steam
Flow Line Pressure 197 psi - Temperature out of
Separators - 404°F - Control Valve 12-9 Unit
leg only 3" valve open 60% - 8" valve open 64%
12-10 Unit leg only - 3" valve open 50% - 8" valve
open 43% - Pressure at 268 psi at 143°F -
Ore 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by E. O. Oahu

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 16, 1994

Well No. Powena Plant. Contractor PGD

DESCRIPTION OF ACTIVITIES

At 2:10 P.M. Running 9 units - Spinning
25.7 MW. MWT - Flow Rate of 430,000 #/hr steam -
Pin Line Pressure 201 PST - Temperature out of
Separator 401°F - Control Unit - 1/8" 9" unit leg
only - 3" valve open 35% - 8" valve open 35% -
1/8" 10" unit leg only 3" valve open 50% - 8" valve
open 65% - Rejection at 253 PST at 143°F.
On # 11, 12, 13, 14, 15, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 15, 1994

Well No. Powah Plant

Contractor FLW

DESCRIPTION OF ACTIVITIES

At 1:50 P.m. RUNNING 9 UNITS- PRODUCING
25.9 m.w. Net- Flow Rate of 435,000 gpm Steam - Flow
Line Pressure 200 psi - Temperature out of
Separators - 400°F - Control Valve - 100% - West Leg
Only - 3" Valve open 40% - 8" Valve open 45% -
100% - East Leg Only - 3" Valve open 50% - 8" Valve
open 50% - Pressure at 253 psi at 138°F.
One # 11, 12, 13, 14, 15, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by E. T. Taha

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 14, 1994

Well No. Powena Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:30 P.M. Running 9 units. Producing
25.8 mms. net. Flow Rate of 440,000 #/hr Steam -
Pin Line Pressure 205 psi. Temperature out
of Separators 402°F. Control Valves - K8-9
West leg only - 3" valve open 50%. 8" valve
open 50%. K8-10 - East leg only - 3" valve
open 50%. 8" valve open 45%. Rejection
At 262 psi At 152°F. Dec. 11, 12, 13, 14, 15, 17, 23, 24, 25

Weather Good

Submitted by

E. J. Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 13, 1994

Well No. Power Plant

Contractor PGU

DESCRIPTION OF ACTIVITIES

At 12:45 P.M. RUNNING 9 units - Producing
25.0 m.w. net - Flow Rate of 455,000 gpm steam
flow line pressure 200 psi - Temperature out of
Separators 401°F - Control valves 1/3-9 west leg
only - 3" valve open 40% - 8" valve open 46% -
1/3-10 - east leg only - 3" valve open 50% - 8" valve
open 52% - Recirculation at 259 psi at 149°F.
Dec 11, 12, 13, 14, 15, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by E. T. Tuck

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 12, 1994

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 3:00 p.m. Running 9 units. Producing 28.4
mm. net. Flow Rate of 435,000 $\frac{\text{ft}^3}{\text{hr}}$ steam -
Flow line Pressure 200 psf - Temperature out of
Separators 401°F. Control Valves 12-S West leg
only - 3" Valve open 44% - 8" Valve open 52% -
12-S-W East leg only 3" Valve open 50% - 8" Valve
open 45% - Temperature At 256 psf At 145°F -
OKC # 11, 12, 13, 14, 15, 22, 23, 24, 25 Running

Weather Good

Submitted by Eric Ambler

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 6, 1994

Well No.

Poway Plant

Contractor

PGO

DESCRIPTION OF ACTIVITIES

At 1:45 P.m. Running 9 Units - Producing 28.5
M.W. MWT. Flow Rate of 430,000 #/hr Steam - Flow
Line Pressure 198 PSI - Temperature out of
Separator 400°F - Control Valve K5-9 West leg
only 3" valve open 50% - 8" valve open 50% -
14-10 - East leg only - 3" valve open 50% - 8" valve
open 40% - Rejection at 249 PSI At 141°F -
Ore # 11, 12, 13, 15, 21, 22, 23, 24, 25 Running

Weather

Rainy

Submitted by

E. Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 5, 1984

Well No. Powena Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:20 pm RUNNING 9 units - Producing
25.8 mld NAT - Flow Rate of 430,000 #/hr Steam
Flow Line Pressure 197 psf - Temperature out of
Separators 399°F - Control Valve - 1/8-9 West Leg
only - 3" Valve open 50% - 8" Valve open 54% -
1/8-10 East Leg only - 3" Valve open 50% - 8" Valve
open 48% - Recondition at 250 psf at 135°F.
OKC #11, 12, 13, 15, 21, 22, 23, 24, 25 RUNNING

Weather Partly

Submitted by E. Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 2, 1994

Well No. Powah Plant

Contractor PCV

DESCRIPTION OF ACTIVITIES

At 2:30 p.m. Running 9 units. Producing
25.0 m.w. NRT. Flow Rate of 435,000 #/hr Steam - Flow
Line Pressure 200 psi. Temperature out of
Separators 400°F. Control Valves. K5-9 West Leg
only - 3" Valve open 65%. 8" Valve open 68% -
K5-10 East Leg only - 3" Valve open 50% - 8"
Valve open 41% - Rejection at 257 psi at
150°F. OK 11, 12, 13, 15, 21, 22, 23, 24, 25 Remaining

Weather Good

Submitted by Jim Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 1, 1994

Well No. Powena Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 9:55 Am. RUNNING 9 units - PRODUCING 28.7
m.w. unit - Flow Rate of 436,000 #/hr. Steam - Flow Line
Pressure 200 psf - Temperature out of Separator 400°F -
Control Valves - 1/8-9 West leg only - 3" Valve
open 55% - 8 Valve open 61% - 1/8-10 East leg
only 3" Valve 50% - 8 Valve open 44% -
Reduction At 255 psf - at 142°F - ORC # 11, 12, 13, 15, 21, 22,
23, 24, 25 RUNNING.

Weather Cloudy

Submitted by E. P. Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 30, 1994

Well No. Power Plant

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 10:00 AM RUNNING 9 UNITS - PRODUCING
24.8 MM NPT - Flow Rate of 430,000 #/hr Steam.
Flow Line Pressure 200 PSI - Temperature out of
Separators - 401°F - Control Valves - K5-9 West Leg
only - 3" valve open 61% - 8" valve open 61% - K5-10
East Leg only - 3" valve open 50% - 8" valve open 45% -
Pressure at 253 PSI at 143°F - OK 11, 12, 13, 15, 21,
22, 23, 24, 25 RUNNING

Weather Good

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 29, 1954

Well No. Powena Plant

Contractor PCV

DESCRIPTION OF ACTIVITIES

At 1:05 P.M. Running 9 units - Producing 25.7
MWD MWT. Flow Rate of 430,000 #/hr steam - Flow Line
Pressure 201 PSI - Temperature out of Separator 401°F.
Control Valves 1/8-9 West Leg only - 3" valve open 58% -
8" valve open 62% - 1/8-10 - East Leg only - 3" valve
open 50% - 8" valve open 46% - Pressure at 257 PSI
At 1:39 P.M. - OKC 11, 12, 13, 15, 21, 22, 23, 24, 25 Running

Weather RAIN

Submitted by E. A. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov 28, 1994

Well No. Powen Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

At 1:45 P.M. RUNNING 9 UNITS - PRODUCING
25.2 M.W. NET - Flow Line Pressure 200 PSI -
Temperature out of Separators 400°F - Control Valves
1/8-9 West leg only - (East leg Valve Valve Leaking -
Shut In to await Repairs - When Well Next Shut In) - 3" Valve
Open 65% - 8" Valve open 63% - 1/8-10 - East leg
only - 3" Valve 80% - 8" Valve open 44% - Resection
258 PSI at 144°F - Occ. 11, 12, 13, 15, 21, 22, 23, 24, 25 Running

Weather Partly

Submitted by Eric Tule

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov 25, 1994

Well No. Powah Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

At 2:30 P.M. Running 10 units - Producing
28.2 mm. net - Flow Rate of 470,000 $\frac{\text{bbl}}{\text{hr}}$ steam.
Flow Line Pressure 183 psf - Temperature out of
Separators - 398°F - Control Valves - 14-9 Both
legs - 3" valves open 26% - 8" valve open 39% -
14-10 East leg only - 3" valve open 50% - 8" valve
open 50% - Reoperation at 252 psf at 120°F.
DRL 11, 12, 13, 14, 15, 21, 22, 23, 24, 25 Running -

Weather Partly

Submitted by E. J. Tule

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 22, 1994

Well No. Powen Plmet.

Contractor PGV

DESCRIPTION OF ACTIVITIES

At 2:05 P.M. RUNNING 9 LINES PRODUCING
25.7 mm. H₂O - Flow Rate of 430,000 #/hr. STAIN
Flow Line Pressure 200 PSI - Temperature out of
Sump 40°F - Control Valve - 12.5 - Both
Legs - 3" Valve open 30% - 8" Valve open 53% -
12.5 - 10.5 East Leg only - 3" Valve open 50% - 8" Valve
open 33% - Projection at 257 PSI AT 13.5 -
Occ 11, 12, 13, 14, 21, 22, 23, 24, 25 Running -
MW-1 - Electrical Cable No Good - ORDERED NEW
CABLE TO REPLACEMENT.

Weather Partly

Submitted by E. J. Tuck

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 21, 1994

Well No. Powena Plant

Contractor PLD

DESCRIPTION OF ACTIVITIES

At 2:30 PM RUNNING 9 UNITS - PRODUCING
25.6 MW NET - Flow Rate of 435,000 #/hr steam -
Flow Line Pressure 264 PSI - Temperature out
of Superheaters 402°R - Control Valves - Ks-9 Both
legs - 3" valves open 30% - 8" valves open 44% -
Ks-10 First leg only - 3" valve open 50% - 8" valve
open 43% - Reaction at 261 PSI at 144°R -
OIL 11, 12, 13, 14, 21, 22, 23, 24, 25 RUNNING - PW-1 Water
Wall Pump Down - Pulled Pumps to No Return.

Weather Good

Submitted by E. A. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 18, 1994

Well No. Powena Plant. Contractor P&O

DESCRIPTION OF ACTIVITIES

At 1:45 pm RUNNING 9 units - PRODUCING
25.8 m.w. unit - Flow Rate of 450,000 #/hr Steam
Flow Line Pressure 206 psf - Temperature out of
Separation 402° - Control Valves 1/8-9 Both
Less - 3" Valves open 40% - 8" Valves open 39%
1/8-10 First leg only 3" Valve open 50% - 8" Valve
open 40% - Producing at 236 psf at 143° -
Ors 11,12,13,14,15,17,22,23,24 RUNNING

Weather Clear

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 17, 1994

Well No. Powena Plant.

Contractor Plid

DESCRIPTION OF ACTIVITIES

At 1:25 P.M. RUNNING 9 UNITS - PRODUING
28.3 mld mt - Flow Rate of 435,000 gpm stream -
Flow Line Pressure 205 psi - Temperature out of
Separators 402° - Control Valve - 15-9 Both
Legs - 3" valve open 432° - 8" valve open 452° -
15-10 - East leg only - 3" valve open 502° - 8" valve
open 402° - Pressure at 26155 at 1472° -
OK #11, 12, 13, 14, 15, 21, 23, 24, 25 RUNNING.

Weather Good

Submitted by E. Tuck

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 16, 1994

Well No. Powena Plymet Contractor Plw

DESCRIPTION OF ACTIVITIES

At 1:45 P.M. RUNNING 9 units - Producing
2511 M.W. NKT - Flow Rate of 430,000 #/hr Steam -
Flow Line Pressure 198 psf - Temperature out of
Separators - 400°F - Control Valves - K3-9 Both
legs - 3" Valves open 47% - 8" Valves open 45%
K3-10 East leg only - 3" Valve open 50% - 8" Valve
open 32% - Recirculation at 240 psf at 141°F -
On 11, 12, 13, 14, 15, 21, 23, 24, 25 RUNNING.

Weather Partly

Submitted by E. T. T. T.

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 18, 1994

Well No. Powena Plant.

Contractor Pho

DESCRIPTION OF ACTIVITIES

At 1:50 p.m. RUNNING 9 Units - Producing
25.7 m.w. NRT - Flow Rate of 435,000 $\frac{\text{m}^3}{\text{hr}}$ Steam -
Flow Line Pressure of 202 psi - Drupnrover out
OF Separators 402 $^{\circ}$ F - Control Valve - 1K9-9 Both
Loss 3' - Valves open 47% - 8" valves open 38% -
1K9-10 - Fast leg only - 3" valve open 50% - 8" valve
open 40% - Pressure - 196 psi at 141' -
On 11, 12, 13, 14, 15, 21, 22, 24, 25 RUNNING - Pressure
Stratery Integrity Testing of 1K9-1A - Losses of
Well During Pressure - One Sht in for
Sht in Log - Possibly Back Down to 72 m.w. NRT.

Weather

Partly

Submitted by

Eini Omba

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 14, 1994

Well No. Powere Plant

Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:30 P.m. RUNNING 9 Units - PRODUCING 25.1
MW Net - Flow Rate 430,000 gpm -
Flow Line Pressure 200 PSI - Orphanage out of
Separators 401°F. Control Valves - Ks-9 Both
legs 3" valves open 47% - 8" valves open 50% -
Ks-10 First leg only - 3" valve open 50% - 8" valve
open 38% - Reduction at 228 PSI at 145°F -
Oils 11, 12, 13, 14, 15, 21, 23, 24, 25 RUNNING - Ks-3 Shut
In for WEC Integrity Testing

Weather Cloudy

Submitted by E. T. Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov 10, 1994

Well No. Poway Plant

Contractor PLV

DESCRIPTION OF ACTIVITIES

At 12:55 pm. Running 9 units - Producing
75.0 m.w. Mat - Flow Rate of 430,000 #/hr steam -
Main Line Pressure 203 psf - Temperature out of Separator
402°F - Control Valves - 1K-9 Both legs - 3" Valve
open 45% - 8" Valve open 47% - 1K-10 East Leg
only 3" Valve open 80% - 8" Valve open 35% -
Reception at 219 psf at 146°F - One 11, 12, 13, 14, 15, 21
23, 24, 25 Running - Will Immediately Testing to Start
Tonight - Were writing out Permits from Delt -
Got Permits in Hand to Start Tonight with 1K-4

Weather Good

Submitted by Eric O'Neil

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 7, 1994

Well No. Powena Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:30 P.M. RUNNING 9 UNITS - PRODUCING
25.3 m.w. unit - Flow Rate of 430,000 #/hr steam - Flow
Line Pressure 201 PSF - Temperature out of Separator
400°F - Control Valves - 1C3-9 - Both legs - 3" valves
open 45% - 8" valves open 45% - 1C3-10 Fast leg
only - 3" valve open 50% - 8" valve open 34% -
Recondition at 275 PSF at 137°F. Ore # 11, 12, 13, 14,
15, 21, 23, 24, 25 Running - Planning to log 1C3-4
Tonight for WEC Emergency Test - During Non-
Peak Time.

Weather Partly

Submitted by Eric Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov 7, 1994

Well No. Powah Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 1:20 P.M. RUNNING 8 UNITS - PRODUCING 21.5
M.W. NET - Flow Rate of 390,000 M/M STAIN - Flow Line
Pressure 198 PSI - Temperature out of Separators
396°F - (KS-10 Separator - Brake Handling Valve -
Brake Repaired - Silica Build-up - KS-10 shut-in with
Small Plug to KS-10 to Keep Well Hot) - Control Valve
KS-9 Both legs - 3" valves open 45% - 8" valves
43% & 60% respectively - Reengagement of 113 PSI at
146°F - Dec 12, 13, 14, 15, 21, 23, 24, 25 Running -
Working on Repairing Brake Handling Valve on Down-
Stream Side of KS-10 Separator - Prose Repair to be
Minor Right Away to Get Back up to full production -
With New Parts and New Valve Ordered from the
Factory -

Weather Good

Submitted by E. J. Tull

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 4, 1994

Well No. Power Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

at 12:45 pm Running 9 units Producing
28.0 mwd - Flow Rate of 435,000 #/hr steam
Flow Line Press 201 psc - Temp at J Separator
401°r - Control Valve - 1/8" both legs - 3" valve
open 41°r - 8" valves open 49°r - 1/8" - 10" - East leg
only - 3" valve open 50°r - 8" valve open 34°r -
Regulator at 175 psc at 150°r - Dec. 11, 12, 13, 14, 15, 21,
23, 24, 25 Running

Weather Clear

Submitted by E. O. O'Neil

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 3, 1994

Well No. Powah Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:00 P.M. RUNNING 9 Units - Producing 25.0
m.w. net. Flow Rate of 435,000 #/hr steam - Flow Line
Pressure 206 psf - Temperature out of Separator
403°F - Control Valves 1-9 Both legs - 3" Valves
open 41% - 8" Valves open 47% - 1-10 East leg
only - 3" Valve open 50% - 8" Valve open 39% -
Production at 185 psf at 180°F - OK #11, 12, 13, 14, 15,
17, 23, 24, 25 RUNNING

Weather

Good

Submitted by E. J. Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov. 2, 1984

Well No. Poona Plant Contractor Plus

DESCRIPTION OF ACTIVITIES

At 1:15 P.m. RUNNING 9 units. PRODUCING
25.5 m.w. mt. Flow Rate of 430,000 bbl/m Strain
Flow Line Pressure 201 psf - Temperature out of
Separation 481°F - Control Valves 1K-9 Both legs
3" valves open 482°F - 8" valves open 472°F - 1K-10
East leg only - 3" valve open 502°F - 8" valve open 372°F
Pressure at 194 psf at 144°F - Dec 11, 12, 14, 15,
21, 22, 23, 24, 25 RUNNING

Weather RAIN

Submitted by E. Taha

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Nov 1, 1994

Well No. Pouma Plant

Contractor PGO

DESCRIPTION OF ACTIVITIES

at 12:25 P.M. RUNNING 9 UNITS - PRODUCING
28.0 m.w. Net - Flow Rate of 435,000 #/hr Steam -
Flow Line Pressure 205 PSI - Overpressure out of
Separators 402" - Control Valves - 125-9 Both legs
3" Valve open 50% - 8" Valve open 48% - 125-10
Left leg only 3" Valve open 50% - 8" Valve open 34%
Production at 273 PSI at 150" - OHC # 11, 12, 14, 15, 21, 22,
23, 24, 25 RUNNING

Weather

Good

Submitted by

E. O. Oahu

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 31, 1984

Well No. Powena Plant

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 1:35 P.M. Running 9 units - Producing
28.0 mscf Mnt - Flow Rate of 440,000 ft³/hr steam
Flow Line Pressure 204 psf - Temperature out of
Separators - 402°F - Control Valves - 1/2" - 5" Both
legs. 3" Valves open 45% - 8" Valves open 45% -
1/2" - 10" First leg only. 3" Valve open 50% - 8" valve
open 35% - Regulation at 205 psf at 151°F -
One 11, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Jim O'Neil

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 27, 1994

Well No. Power Plant-

Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:15 P.m. RUNNING 9 units - PRODUCING
25.5 MW. MWT - Flow Rate of 440,000 #/hr Steam - Flow
Line Pressure 212 PSI - Temperature out of
Superheater 405°F - Control Valves 1s-9 Both legs
3" Valves open 43% - 8" Valves open 45% - 1s-10
first leg only - 3" Valve open 50% - 8" Valve open 44% -
Reheat at 214 PSI at 145°F - Oxc #12, 13, 14, 15, 21,
22, 23, 24, 25 RUNNING

Weather

Good

Submitted by Jim Oake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 26, 1994

Well No. Power Plant. Contractor PCO

DESCRIPTION OF ACTIVITIES

At 1:15 P.m. RUNNING 9 units - PRODUCING -
25.8 mm NWT. Flow Rate 440,000 #/hr Steam -
Flow Line Pressure 207 PSI - Temperature out of
403°F. Control Valve - 1/8-5 Both Legs - 3" valves
open 42% - 8" valves open 45% - 1/8-10 Both
legs only 3" valve open 50% - 8" valve open 36% -
REGISTRATION - 145 PSI at 140°F - ORC #12, 13, 14, 15, 21, 22, 23,
24, 25 RUNNING -

Weather Good

Submitted by Eric Taha

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 24, 1994

Well No. Power Plant

Contractor PG&E

DESCRIPTION OF ACTIVITIES

At 1:30 p.m. RUNNING 9 units - Producing
25.0 m.w. net - Flow Rate of 440,000 #/hr steam
Flow Line Pressure 208 psf - Temperature out of
Separators - 403°F - Control Valves - 1K8-9 Both legs.
3" Valves open 43% - 8" Valves open 53% - 1K8-10
East leg only - 3" Valve open 50% - 8" Valve open
35% - Reformation at 206 psf at 149°F -
On 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING - There is
holding PG&E to 25 m.w. net.

Weather Good

Submitted by Eric Ombu

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 21, 1994

Well No. Powena Plant

Contractor PGU

DESCRIPTION OF ACTIVITIES

At 1:40 P.M. RUNNING 9 units - Producing 27.7
m.w. MWT - 32.1 m.w. Gross - Flow Rate of 450,000 #/hr
Steam - Flow Line Pressure 217 psi - Overpressure
out of Separators 406°F - Control Valve 165-9
Both Legs - 3" Valve open 46% - 8" Valve open 57% -
165 to West leg only - 3" Valve open 50% - 8" Valve
open 41% - Reinitiation at 223 psi at 146°F -
Occ #12,13,14,15,21,22,23,24,25 RUNNING,

Weather Good

Submitted by Eui Oahu

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 20, 1994

Well No. Power Plant. Contractor Plao

DESCRIPTION OF ACTIVITIES

At 3:30 P.M. Running 9 units - Producing 26.5
mm. mt - Flow Rate of 448,000 #/hr. Steam -
Flow line Pressure 213 PSI. Temperature out of
Superheater 405° F - Rejection at 175 PSI at 225° F -
On 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Clear

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 19, 1994

Well No. Power Plant Contractor PG&E

DESCRIPTION OF ACTIVITIES

At 1.35 p.m. RUNNING 9 units - PRODUCING
25.5 MW NET - Flow Rate of 440,000 #/hr steam -
Flow Line Pressure 207 PSI - Temperature out of
Separators - 403°K - Condensate valves - KS-9 Both
legs - 3" valves open 46% - 8" valves open 51% -
KS-10 - First leg only - 3" valve open 50% - 8" valve open 36% -
Reinjection at 221 PSI at 150° - One #12, 13, 14, 15, 21,
22, 23, 24, 25 RUNNING,

Weather Good

Submitted by Eric Ouellet

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 18, 1994

Well No. Powena Plant.

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 12:45 P.m. Running 9 units - PROMISING.
76.1 mm H₂O - Flow rate of 440,000 #/hr Steam -
Flow Line Pressure 209 PSF - Temperature out
of Separators - 403°F. Control Valves - 1Ks & Both
legs - 3" valves open 46% - 8" valves open 50% -
1Ks-10 First leg only - 3" valve open 50% - 8" valve
open 35% - Recondition at 191 PSF at 147°F -
ORC #12,13,14,15,21,22,23,24,25 RUNNING.

Weather Good

Submitted by E. T. Taha

BUREAU OF LAND MANAGEMENT
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 17, 1994

Well No. Powena Plant

Contractor Plw

DESCRIPTION OF ACTIVITIES

At 1:45 P.M. RUNNING 9 Wells - Producing 25.3
Mw Net - Flow Rate of 440,000 M/Hr Steam -
Flow Line Pressure 207 PSZ - Temperature out
of Separators 403°F - Control Valve - 1K8-9 Both
Lags 3" Valve open 45% - 8" Valve open 51% -
1K8-10 First leg - only - 3" Valve open 50% -
8" Valve open 34% - Rejection at 205 PSI at 15°F.
One 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather

Good

Submitted by

Eric Oake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 14, 1994

Well No. Powah Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 2:00 pm Running 9 units - Producing
28.7 mm NWT - Flow Rate of 440,000 P/HR Stone
Flow Line Pressure 207 PSI - Temperature out of
Separator 404°F. Control Valves K8-9 Both
Legs - 3" Valve open 46% - 8" Valve open 54% -
K5-10 East Leg Only - 3" Valve open 50% - 8" Valve
open 32% - Reinstatement at 212 PSI at 150°F -
Oil #12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather

Good

Submitted by

E. J. [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 12, 1994

Well No. Powena Plant. Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:55 P.m. RUNNING 9 Units - Producing -
H.3 m.w. Nat- Flow Rate of 440,000 #/hr Steam -
Flow Line Pressure 213 psf - Temperature out of
Separators - 405°F - Control Valves - 12-9 Both
legs - 3" Valves open 47% - 8" Valves open 50% -
12-10 - Part leg only - 3" Valve open 50% - 8" Valve
open 41% - Reconnection at 213 psf at 152°F -
On 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING.

Weather Good

Submitted by E. Paul

OFFICE OF THE DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 11, 1994

Well No. Powee Plant. Contractor P60

DESCRIPTION OF ACTIVITIES

At 1:50 P.M. RUNNING 8 UNITS - PROMCENG -
73.9 m.w. MWT - Flow Rate of 400,000 #/hr Steam
Flow Line Pressure 218 PSI - Temperature out of
Separators 464°F - Control Valve - 1/8-9 Both
legs - 3" Valve open 47% - 8" Valve open 47% -
1/8-10 First leg only - 3" Valve open 50% - 8"
Valve open 31% - Reinsulation at 188 PSI at 154°F.
Oil #12, 13, 14, 15, 21, 22, 23, 25 RUNNING - Lost Oil #24 -
Lost Turbine Block due to loose bolt - Completed
Repairs and Preparing to bring unit back on.

Weather Good

Submitted by Eric Auble

GOVERNMENT OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 10, 1994

Well No. Powena Permit. Contractor P60

DESCRIPTION OF ACTIVITIES

At 11:55 pm Running 9 wells - Producing
25.6 m.w. net (27.8 m.w. Gross) - Flow Rate of
445,000 #/hr Steam - Flow Line Pressure 209 PSI.
Temperature out of Separator 403°F - Control
Valves - 12-9 - Both legs - 3" Valve open 40% -
8" Valves open 45% - 12-10 - Right leg only
3" Valve open 50% - 8" Valve open 39% -
Reinjection at 203 PSI at 15°F - Oil #12, 13, 14,
15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Jim Paul

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 7, 1994

Well No. Powena Permit Contractor PGU

DESCRIPTION OF ACTIVITIES

At 1:35 p.m. Running 9 units - Producing
28.2 m.w. NRT - Flow Rate of 440,000 #/hr Steam -
Flow Line Pressure 207 PSI - Temperature
out of Separator - 403°F - Control Valves - K8-9
Both legs - 3" valves open 40% - 8" valves open
48% - K8-10 - Best leg only 3" valves open
50% - 8" valve open 39% - Reoperation at 217 PSI -
At 1:54 PM - On #12, 13, 14, 15, 21, 22, 23, 24, 25

Weather Good

Submitted by E. J. [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 6, 1994

Well No. Powena Plant-

Contractor PGV

DESCRIPTION OF ACTIVITIES

At 1:15 P.m. RUNNING 9 units - PRODUCING 25.4
MAD. MNT - Flow Rate of 435,000 #/hr steam - 14hr
GMA Pressure 203 PSI - Temperature out of Separator
402° - Control Valve 10s-9 Both legs -
3" Valve open 40% - 8" Valve open 47% -
10s-10. Fast legs only - 3" Valve open 50% - 8"
Valve open 37% - Pressure at 165 PSI at 150° -
ON #12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING -

Weather Good

Submitted by E. A. [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 5, 1994

Well No. Powena Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:40 P.m. RUNNING 9 units - Producing
25.4 m.w. Net Flow Rate of 440,000 #/hr steam.
Flow Line Pressure 205 psf - Temperature out of
Separators 402°F - Control Valves K8-9 Both
legs 3" Valves open 40% - 8" Valves open 47% -
K8-10 East leg only - 3" Valve open 50% - 8"
Valve open 37% - Pressure at 186 psf at 152°F.
Dec #12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING

Weather Good

Submitted by Eli Oake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 3, 1994

Well No. Powah Plant Contractor P&H

DESCRIPTION OF ACTIVITIES

At 2:15 P.M. Running 9 units - Producing -
25.2 MW net - Flow rate of 440,000 gpm steam -
Flow line pressure 205 psf - Temperature out of
Exhaustors 403°F - Control valves - 14-9 Both
legs - 3" valves open 45% - 8" valves open 45% -
14-10 - Fast leg only - 3" valve open 50% - 8" valve
open 40% - Reheat at 211 psf at 151°F -
One 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by E. J. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 30, 1994

Well No. Powen Plant. Contractor P&O

DESCRIPTION OF ACTIVITIES

At 9:15 AM. Reversed 9 limits. Producing 75.0 mm
ml. (27.5 mm Gross) - Flow Rate of 430,000 #/hr Steam
Pump Line Pressure 205 psig - Temperature out of Separator
401°F - Control Valves - 1/2" 9 Both Legs - 3" Valves open 43%
8" Valves open 48% - 1/2" 10 - First Leg only 3" Valve open 50%
8" Valve open 36% - Rejection At 187 psig At 147°F -
On 12, 13, 14, 15, 22, 23, 24, 25 Runway

Weather Good

Submitted by Eric Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 29, 1974

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:35 Am. Running 9 inch Pipe. Producing 2500 new well
(27.6 mm. Gross) Flow Rate of 430,000 #/hr. Steam - Flow Line Pressure
205 psi Temperature out of Separator - 401°F - Control Valve
125-9 Both legs 3" Valve open 44% 8" Valve open 80%
125-10 Both legs only 3" Valve open 50% 8" Valve open 35%
Regulator at 230 psi at 150°F. Dec. 12, 13, 14, 15, 21, 22, 23, 24, 25
Running

Weather Good

Submitted by Sam Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 28, 1994

Well No. Powena Plant Contractor KEU

DESCRIPTION OF ACTIVITIES

At 1235 P.M. Running 9 units - Producing
25.0 m.w. vent - Flow Rate of 430,000 PPHr Steam -
Flow Line Pressure 203 PSF - Temperature out of
Superheaters 401°F - Critical Valve 168-9 Both
Legs - 3" Valve open 402° - 8" Valve open 492° -
168-10 - Part leg only 3" Valve open 502° - 8" Valve
open 382° - West leg, 51/4" EM - Ringdown at
197 PSF at 147°F - One 12, 13, 14, 15, 21, 22, 23, 24, 25
Running

Weather Good

Submitted by E. J. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 27, 1994

Well No. Poway Plant. Contractor P60

DESCRIPTION OF ACTIVITIES

At 9:50 AM. Running 9 wells - Producing.
28.0 m.w. net (27.1 m.w. Gross) - Flow Rate
430,000 #/hr Steam - Flow Line Pressure 200 psi
Temperature out of Separator 401° F - Control
Valves - KS-9 Both legs - 3" Valves open 40%
8" Valves open 48% - KS-10 West leg only -
3" Valve open 50% - 8" open 18% - East leg shut
in to Repair 3" Control Valves - Permitted at
Oil 12, 13, 14, 15, 21, 22, 23, 24, 25 Running.

Weather Good

Submitted by E. Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 26, 1994

Well No. Powena PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 1125 P.M. RUNNING 9 UNITS - PRODUCING
2515 m.w. NIT. Flow Rate of 430,000 gpm STATION.
Flow Line Pressure 206 PSI - Temperature out of
Sumpstations 40 $^{\circ}$ F - Control Valves - K5-9 Both
legs - 3" Valves open 41% - 8" Valves open 47% -
K5-10 Both legs - 3" Valves open 50% - 8" Valves
open 11% - Ringdown at 175 PSI at 1445 P.M. -
On 12, 13, 14, 15, 21, 22, 23, 24, 25 RUNNING -

Weather Good

Submitted by E. J. Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 23, 1994

Well No. Powena Plant Contractor PGU

DESCRIPTION OF ACTIVITIES

At 1:45 PM RUNNING 9 UNITS PRODUCING
26.0 m.w. net - (28.4 m.w. gross) - Flow Rate of 450,000 #/hr
Steam - Flow line Pressure 219 PSI - Temperature
out of Separator 407°F - Control Valves - 165-9
Both legs - 3" valves open 45% - 8" valves open
45% - 165-10 Both legs - 3" valves open 50%
8" valves open 12% - Recirculation at 192 PSI at
145°F - One 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Eric O'Brien

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 22, 1994

Well No. POWER PLANT Contractor Pao

DESCRIPTION OF ACTIVITIES

At 1:10 P.M. RUNNING 8 UNITS - PRODUCING
21.3 M.W. NET (23.4 M.W. GROSS) - Flow Rate of
325,000 #/hr steam - Flow Line Pressure 196 PSI
Control Valve - 1CS-9 Both legs 3" open 50%
8" valve open 70% - 1CS-10 - Small flow to 1CS-1A -
Production at 53 PSI at 146°F - OIL #12, 14, 15, 21,
22, 23, 24, 25 RUNNING.

Weather Good

Submitted by E. O. O'Neil

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 2, 1994

Well No. Pouma Plover Contractor PGU

DESCRIPTION OF ACTIVITIES

At 9:50 Am. RUNNING 9 units - PRODUCTION -
25.7 m.w. NET (28.2 m.w. GROSS) - Flow Rate of 440,000 +/hr
Steam - Flow Line Pressure 206 psi - Temperature out
of Separators 403°F - Control Valves - 1CS-9
West Leg - 3" Valve open 51% - 8" Valve open 30% -
East Leg - 3" Valve open 37% - 8" Valve open 30% -
1CS-10 - Both Legs - 3" Valve open 50% - 8" Valve
open 38% - Pressure - 250 psi at 147°F - Occ # 12, 13,
14, 15, 21, 22, 23, 24, 25 Running -
Steam Flow - 1CS-9 132 KPH - 1CS-10 315 KPH.
Yesterday's Shut Down Due to Brown Slag From
1CS-10 - System Shut Down Due to too much Bore -

Weather PM

Submitted by Eric Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 1, 1994

Well No. Powah Plant

Contractor PLO

DESCRIPTION OF ACTIVITIES

At 12:00 noon RUNNING 9 UNITS - PRODUCING
25.5 m.w. Net - (27.9 m.w. Gross) - Flow Rate of 440,000
#/hr Steam - Flow Line Pressure 213 PSI
Temperature out of Separators - 405°F - Control Valves
1CS-9 West Leg only 3" valves open 72% - 8" valves
open 69% - 1CS-10 Both Legs 3" valves open
50% - 8" valves open 57% - (1CS-9 95 KLB Steam -
1CS-10 345 KLB Steam) Recondition At 255 PSI At 134°F -
ORC #12, 13, 14, 15, 21, 22, 23, 24, & 25 RUNNING -

Weather Good

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 31, 1984

Well No. Powena Plant

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 11:35 AM. RUNNING 7 UNITS. PRODUCING 20.5
M.W. NET - Flow Rate of 350,000 GPM - Flow Line
Pressure 218 PSI Temperature out of Separator -
40°F. Control valves 145-60 both legs - 3" valves
open 48% - 8" valves open 50% - Regulation at
155 PSI At 12:40 PM - OIL 13, 14, 15, 21, 22, 23, 25 RUNNING.

Weather Cloud

Submitted by Eric Tubb

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 30, 1994

Well No. Power Plant Contractor Plu

DESCRIPTION OF ACTIVITIES

At 12:50 PM. RUNNING 7 units - PRODUCING
70.5 m.w. NKT - Flow Rate of 350,000 #/hr Steam -
Flow Line Pressure 219 PSI - Temperature out of
Superheater 403°F - Control Valve - 125-10 Both
Lugs - 3" Valve open 50% - 8" Valve open 50%
Reconnection at 177 PSI at 186°F - OK 13, 14, 15, 21,
22, 23, & 25 RUNNING.

Weather Good

Submitted by Jim Park

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 29, 1984

Well No. Powena Plant Contractor PLW

DESCRIPTION OF ACTIVITIES

At 12:00 noon - RUNNING 7 UNITS - PRODUCING
20.5 m.w. NRT - Flow Rate of 350,000 #/hr Steam -
Flow Line Pressure 218 PSI - ORIPRODUCER
Out of Separators 403°K - CONTROL VALVES -
1/5-10 Both Legs - 3° VALVES OPEN 50% - 8° VALVES
OPEN 50% - PERMEATION AT 180 PSI AT 153°K -
ORL #13, 14, 15, 21, 22, 23, & 25 RUNNING.

Weather Clear

Submitted by Jim Gable

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 26, 1994

Well No. Powere Planet Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:25 Am. Running 7 units - Producing
20.5 m.w. Net - Flow Rate of 350,000 #/hr Steam
Flow Line Pressure 215 PSI - Temperature out of
Superheater 401°K - Corbel Valve K8-10 - Bldg
Loss - 3' Valve open 50% - 8' Valve open 45%
Pressure at 214 PSI at 144°K - OIL 12, 13, 14, 15, 22,
24, 25 Running.

Weather Good

Submitted by Jim Tule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 28, 1984

Well No. Powen Plains

Contractor PLV

DESCRIPTION OF ACTIVITIES

At 1:30 P.m. RUNNING 7 UNITS - PRODUCING
70.2 MW. MET - Flow Rate 350,000 H/HR STATION
PLNS LINE PRESSURE 215 PSI - TEMPERATURE
OUT OF SEPARATOR 402°F - CONTROL VALVES - 15-10
BOTH LYS - 3" VALVES OPEN 50% - 8" VALVES OPEN
45% - REHEATER AT 163 PSI AT 156°F -
OIL 12, 13, 14, 15, 22, 24, 25 RUNNING -

Weather Good

Submitted by Eini Osh

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 24, 1994

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:45 AM. RUNNING 7 UNITS. PRODUCING-
20.5 MW NET- Flow Rate of 350,000 #/hr Steam -
Flow Line Pressure 220 PSI- Temperature out of
Superheaters- 403° - Control Valves- 15-10- Both Lags-
3" Valves open 60% - 8" Valves open 42% -
Pressure at 143 PSI At 154° - ORC # 12, 13, 14, 15,
22, 24, & 25 RUNNING-

Weather Good

Submitted by Eini Aulua

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 23, 1994

Well No. Powena Plums. Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:10 AM. Running 7 units. Producing
20.7 m.w. NPT. Flow Rate of 345,000 #/hr steam.
Flow Line Pressure 217 PSI - Drumpen down out
of Separator 462°R - Control Valve - KS-10
Both Lugs - 3" valves open 65% - 8" valves
open 46% - Reinsaction AT - 164 PSI at
154°R - OKC 12, 13, 14, 15, 22, 24, 25 Running

Weather RAIN

Submitted by Lin Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 21, 1994

Well No. Power Plant. Contractor PLU

DESCRIPTION OF ACTIVITIES

At 1:30 p.m. RUNNING 7 UNITS - PRODUCING
20.5 MW NET - (22.2 MW GROSS) - Flow Rate of
340,000 #/hr. Steam - Flow Line Pressure 208 psf.
Control Valve - 1K-9 West Leg only - 3" valve
open 50% - 8" valve open 70% - East Leg shut
for Repair to 6" - 1K-10 Still on Alarm to
1K-1A - Pressure at 44 psf At 147°K -
OIL 12, 13, 14, 21, 22, 24, 25 RUNNING: Still working
on Down Computers - Well and controllers
Back on line but no direct communication with
Control Room as yet - working on equipment -

Weather Good

Submitted by Jim Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 20, 1994

Well No. Powena Plant.

Contractor P60

DESCRIPTION OF ACTIVITIES

At 1:15 P.M. Running 7 hours - Producing
20.2 m.w. unit - Flow Rate of 340,000 #/hr Steam -
Flow Line Pressure 200 PSI - Control Valve
KS-9 - West leg - 3" 50% - 8" 60% - (Working on
East leg Control Valve) - KS-10 - on slow bleed
to KS-11 - (Approx 25 kpsi) - Rejection to
KS-3 and KS-4 - Rejection at 48 PSI
At 1:15 P.M. - On 12, 13, 14, 21, 22, 24, 25 Running -
Lighting strikes on Saturday, Sunday, and
Monday - Possibly near Well P60 - "A" -
Knocked out Control Computers up at the Plant
and also at Well P60 "A" (Well Field Control Computers)
Replaced Parts and started Plant with steam
only from KS-5 - using LRP Top Computer for
Well Field Control working on Parts for Permanent
Computer.

Weather Good

Submitted by Jim O'Neil

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 16, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:50 P.M. RUNNING 9 UNITS - PRODUCING
28.5 M.W. NET (27.8 M.W. GROSS) - FLOW RATE OF
430,000 ^{BTU}/HR STEAM - FLOW LINE PRESSURE 215 PSF.
TEMPERATURE OUT OF SEPARATORS 500°F - (1CS-9
318 KPH STEAM - 1CS-10 (08 KPH) - CONTROL
VALVE - 1CS-9 WEST LEG - 3" VALVE OPEN 78% -
8" VALVE OPEN 55% - EAST LEG - WORKING ON
PLUGGED VALVE - 1CS-10 - BOTH LEGS - 3" VALVES
OPEN 50% - 8" VALVES OPEN 12% - PRODUCTION
AT 208 PSF AT 151°F - ONE #12, 13, 14, 15, 17, 22, 23, 24, 25
RUNNING

Weather

Cloudy

Submitted by

Eric T. Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 15, 1994

Well No. Puwa Puwa Contractor PLD

DESCRIPTION OF ACTIVITIES

At 12:45 P.M. RUNNING 8 weeks - PRODUCING -
24.0 m.w. Nubt Flow Rate of 390,000 #/hr Steam -
Flow Line Pressure 218 PSE - Temperature out of
Separators - 404°F - (KS-9 237 KPH Steam - KS-10
175 KPH Steam) - Control Valve - KS-9. ~~East~~ Leg
Shut Down for Repair (Plugged) - West Leg - 3" Valve
Open 72% - 8" Valve open 41% - KS-10 - Both
Legs 3" Valves open 50% - 8" Valves open 15%
Reinjection at 166 PSE at 155°F -
OKL #12, 13, 14, 25, 21, 22, 23, 25 RUNNING

Weather Good

Submitted by Eui Taka

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 14, 1994

Well No. Power Plant Contractor FLU

DESCRIPTION OF ACTIVITIES

At 1:25 P.M. RUNNING 7 units PRODUCING
205 m.w. M.P. Flow Rate of 350,000 GPM STAGE
Flow Line Pressure 214 PSI. Temperature Out
of Separators - 401° F. Control Valves - 100-10
Both Legs - 3' Valves open 100% - 8' Valves
Open 42%. Reoperation at 197 PSI at 157° F.
One #13, 14, 15, 21, 22, 23, 25 RUNNING

Weather Good

Submitted by Em Osh

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 13, 1994

Well No. Powah Plumer Contractor PGU

DESCRIPTION OF ACTIVITIES

At 1:05 P.M. RUNNING 6 UNITS - PRODUCING
17.3 M.W. NET - (18.9 M.W. GROSS) - Flow Rate of 300,000 $\frac{bbl}{hr}$
Steam - Flow Line Pressure 211 PSI - Temperature
out of Separator - 398°F - Control Valves -
K-9 - Well Shut IN Due to Plugged Control
Valves - K-10 - Both legs 3" valves open
50% - 8" valves open 36% - Reconnection at
226 PSI - At 155°F - Occ. 13, 14, 15, 21, 22, 23 Running

Weather Partly

Submitted by E. J. Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT 12, 1984

Well No. Powah Pumer

Contractor Fluo

DESCRIPTION OF ACTIVITIES

At 12:50 P.m. RUNNING 9 units - PRODUCING
26.3 m.w. net - Flow Rate of 445,000 #/hr steam -
Flow Line Pressure 211 PSI - Temperature out of
Separators - 405°F - (KS-9 310 KPH steam - KS-10
115 KPH steam) - Control Valves - KS-9 West Leg
3" valve open 18% - 8" valve open 10% - East Leg
3" valve open 50% - 8" valve 68% - KS-10
Both Legs - 3" valve open 50% - 8" valve open
20% - REINJECTION AT 236 PSI AT 152°F -
OLE #12, 13, 14, 15, 21, 22, 23, 24, & 25 RUNNING

Weather Partly

Submitted by E. A. A. A.

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 9, 1984

Well No. Powah Plant.

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 1:25 P.M. RUNNING 9 units - Producing
26 m.w. unit - Flow Rate of 440,000 #/hr steam
(27.6 m.w. Gross) - (KS-9 - 300 kpsi steam - KS-10 127 kpsi steam)
Flow Line Pressure 209 PSI - Temperature out of
Separators 404°F - Control Valves - KS-9 - West
Leg - 3" Valve open 18% - 8" Valve open 16% - East
Leg - 3" Valve open 59% - 8" Valve open 71% -
KS-10 - Both Legs - 3" Valves open 50% - 8" Valve
open 20% - Pressure at 232 PSI at 152' -
ORC #12,13,14,15,21,22,23,24,25 RUNNING

Weather Good

Submitted by Eric Dahl

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 8, 1974

Well No. Powah Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 1:35 P.M. Running 9 units. Producing-
28.8 m.w. Net (28.2 m.w. Gross) Flow Rate of
440,000 H/Hr Steam - Flow Line Pressure 210 psf.
Temperature out of Steamlines 404°K. (125.9 -
294 K/Hr Steam - 125-10 134 K/Hr Steam) Control
Valves 125-9 first leg 3" valve open 15% - 8" valve
open 15% - West leg 3" valve open 53% - 8" valve
open 53% - 125-10 both legs - 3" valve open 58%
8" valve open 19% - Pressure at 228 psf at 145°K.
OK #12, 13, 14, 15, 21, 22, 23, 24, 25 Running.

Weather Good

Submitted by E. J. Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 7, 1994

Well No. Powah Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 1:15 P.M. RUNNING 9 UNITS - PRODUCING 25.3
M.W. NAT - (27.5 M.W. GROSS) - Flow Rate of 446,000 #/hr
Steam - Flow Line Pressure 204 PSI - Temperature
Out of Separator 402°F - (Keg 275 KPH Steam -
KS-10 156 KPH steam) - Control Valves - KS-4
West Leg. 3" valve open 50% - 8" valve open 51% -
East Leg. - 3" valve open 17% - 8" valve open 17%
KS-10 Biker Leg. - 3" Valves open 50% - 8" valves
open 19% - ReInjection at 184 PSI at 145°F -
OIL 12, 13, 14, 15, 21, 22, 23, 24, 25 Running

Weather Good

Submitted by Eiri Taulu

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 6, 19 94

Well No. Powena Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 12:35 P.M. RUNNING 9 UNITS - PRODUCING 26.1
M.W. NET (28.2 M.W. GROSS) - Flow Rate of 440,000 ^{cu}/hr
Steam - Flow Line Pressure 203 PSI - Temperature
out of Separators - 402°F - Control Valves -
1K-9 First Leg - 3" valve open 17% - 8" valve open 17%
West Leg - 3" valve open 50% - 8" valve open 47%
1K-10 - Both Legs - 3" valve open 50% - 8" valves
open 20% - Reinstatement at 193 PSI at 140°F -
DEC- 12, 13, 14, 15, 21, 22, 23, 24, & 25 RUNNING

Weather Partly

Submitted by E. O. O'Neil

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

Drawer 1
File # 21

DAILY REPORT

Aug 16, 1994

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 9:05 am. RUNNING 7 units - PRODUCING
21.3 mmi. Mkt. Flow Rate of 345,000 #/hr Steam
Flow Line Pressure 219 PSIG - Temperature out of
Separators - 406°K. Control Valves - KS-10 - Both
Close - 3" Valves open 70% - 8" Valves open 31%
Pressure at 0-PSI at 146°K - One 12, 13, 14, 15, 12,
23, & 25 RUNNING

Weather Good

Submitted by Eric Oake

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 15, 1994

Well No. Ponsan Plant-

Contractor Pao

DESCRIPTION OF ACTIVITIES

At 10:40 Am. RUNNING 7 units - Producing
21.6 m.w. unit - Flow Rate of 550,000 #/hr. Steam.
Flow Line Pressure 216 PSI - Temperature out of
Separator - at 402°R - Control Valve - 128-10
Back Loss - 3" Valve open 60% - 8" Valve open 30%
Reduction at 0-PSI - at 150°R - Orifice #12, 13, 14, 15, 21, 22, & 25
RUNNING

Weather

Good

Submitted by

E. T. Park

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 12, 1994

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:50 Am Running 7 units. Producing
20.7 m.w. net. Flow line pressure 214 PSI
Flow Rate of 350,000 #/hr steam - Temperature
out of Separator 402°F - Control Valve -
14-10 Both Lines - 3" Valve open 50% -
8" Valve open 34% - Pressure 0 PSI at 148' -
OK #12, 13, 14, 21, 22, 24, & 25 Running

Weather Clear

Submitted by Eric Paul

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 11, 1994

Well No. Power Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:35 AM. RUNNING 8 Units PRODUCING
21.6 M.W. NET - Flow Rate of 372,000 GPM Steam-
Flow Line Pressure 198 PSI - Temperature out
of Separators 399°K - Control Valves - 12S-60
Worst Log only 3' Valve open 45% - 8' Valve
open 60% - Redirection - 0 PSI at 145°K -
OIL # 12, 13, 14, 15, 21, 22, 24, & 25 RUNNING

Weather Good

Submitted by Jim Oake

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 10, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 8:00 pm Running 6 units - Production -
18.0 m.w. Net - Flow Rate of 365,000 ¹/₁₀₀ GPM -
Flow Line Pressure 215 PSI - Discharge out of
Separator - 401° - Control Valve - 125-10 -
Wait log only - 3" valve open 48% - 8" valve
open 36% - Rejection at opse - at 144° -
One # 12, 13, 15, 22, 24, & 25 Running - Still working
on Control Problems - NOT MAJOR.

Weather Good

Submitted by Jim Paul

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug. 9, 1994

Well No. Power Plant Contractor PLW

DESCRIPTION OF ACTIVITIES

Plant shut down for modification work
on Control System.
At 2:30 P.M. started warming-up to
Restart Plant.

Weather Good

Submitted by Eric Tuck

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug. 8, 1994

Well No. Pouma Puni Contractor Pao

DESCRIPTION OF ACTIVITIES

At 10:35 AM. RUNNING 3 Units. Producing
7.4 mmo. MFT - Flow Rate of 154,000 #/hr Steam -
Flow Line Pressure 150 PSI - Temperature out
of Separator 370°F - Control Valves - 1/2" - 3" -
Last Log only - 5" Valve open 42% - 8" Valve
open 12% - Pressure at 0 PSI at 143°F -
On # 13, 14, & 15 RUNNING - Still Having Control
Problems.

Weather Good

Submitted by E. A. Smith

State of Hawaii
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 7, 1984

Well No. Puuhi Plant Contractor PCC

DESCRIPTION OF ACTIVITIES

Station: up on Sweeney 8-6-84 At 7:00 PM. Got
up to 15 M.W. MFT. Problems with Control System
Back down to 3 M.W. MFT. Working on
connecting Control System.

Weather Partly

Submitted by Eric Oahu

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
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DAILY REPORT

Aug. 5, 1994

Well No. Powena Plant

Contractor P60

DESCRIPTION OF ACTIVITIES

Plant Start Down for Repairs and Maintenance -
Working on Computer Logic Program - Problems -
Will complete work on Logic Program then start
warmup system possibly tonight then
start the plant -

Weather Good

Submitted by Jim Tubb

DAILY REPORT

Well No. Power Plant Contractor PLC

Planes: Shut Down For Repairs April
Maintenance - Possible Start up Tomorrow
Working on Control Wiring.

Weather Good

Submitted by Eric Anderson

Submitted by Ami Patel

DAILY REPORT

Well No. Powan Plumer

Contractor Flu

Please Shut Down For Repairs And Maintenance.

Weather *Good*

Submitted by

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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Aug 1, 1994

Well No. Pouan Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

Plant. Shut Down For Repairs And
Maintenance - Plans Ann to Restart
on Thursday 8-4-94

Weather Good

Submitted by Eric Dault

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DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 29, 1994

Well No. Powah PLANT. Contractor P40

DESCRIPTION OF ACTIVITIES

PLANT SHOT DOWN FOR REPAIR AND
MAINTENANCE.

Weather GOOD

Submitted by Eric Tulea

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 28, 1994

Well No. Powen Plumer

Contractor PLC

DESCRIPTION OF ACTIVITIES

PLANT Shut down for Repairs and

MAINTENANCE

Weather Cloud

Submitted by D. Oak

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 27, 1994

Well No. Powen Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

Plants Shut Down For Repairs And
Maintenance

Weather Clear

Submitted by [Signature]

DAILY REPORT

Well No. Power Plant Contractor PLU

Plans shut down for up-Grass and Rapraes

Weather *Cloud*

Submitted by Am Paul

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
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DAILY REPORT

July 25, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

The Plant off the grid at 10:45 p.m.
Starting 7-23-94 - CREWS DOING MAINTENANCE
work on plant.

Weather Clear

Submitted by E. A. [Signature]

State of Hawaii
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 22, 19

Well No. Poway Pump

Contractor PW

DESCRIPTION OF ACTIVITIES

At 12:10 P.M. RUNNING 6 UNITS - PRODUCING
16.8 m.w. Net - Flow Rate of 305,000 #/hr. STAIN - FLOW
LITER PRESSURE 203 PSI - TEMPERATURE OUT OF
SAPPHIRES - 395°F - CONTROL VOLUME - 128-9 BOK LYS
3" VOLUME OPEN 45% - 8" VOLUME OPEN 17% - 125-10
WAST LYS ONLY - 3" VOLUME OPEN 55% - 8" VOLUME OPEN 34%
REINJECTION AT 24 PSI AT 278°F - ONE #11, 13, 14, 21, 22, 25 RUNNING

Weather RAIN

Submitted by E. A. Oulu

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Puamotu
File # 21

July 21, 1994

Well No. Puamotu Plant Contractor PLO

DESCRIPTION OF ACTIVITIES

At 11:30 AM Running 6 units - Producing -
17.0 m.w. MAT - Flow Rate of 255,000 #/hr Steam - Flow
Line Pressure 149 PSE - Temperature out of Separator
373°F. Control Valves - 125-9 both legs. 3" valves
Open 45% - 8" valves open 13% - 125-10 both legs only
3" valves open 55% - 8" valves open 16% - Reconnection
at 1 PSE at 153°F - OK 11, 13, 14, 21, 22, 25 Running
Production down to leaking Reconnection line being
Repaired - After Repairs completed back up to
17.0 m.w. MAT -

Weather RAIN

Submitted by Jim Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 20, 1994

Well No. Powah Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:40 AM Running 6 Units - Producing
16.9 m.w. Net - Flow Rate of 305,000 #/hr Steam
Flow Line Pressure 205 PSI - Temperature out of
Separators - 400°F - Control Valve - K5-9 Both
Cass - 3" Valve open 45% - 8" Valve open 17%
K8-10 - West leg only - 3" Valve open 60% - 8"
Valve open 34% - Rejection at 23 PSI at 221°F -
OIL 11, 13, 14, 21, 22, & 25 RUNNING

Weather Good

Submitted by Eric Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 19, 1984

Well No. Powah Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:45 P.M. RUNNING 6 UNITS - PRODUCING
17.1 m.w. Net - Flow Rate of 385,000 #/hr Steam -
Flow Line Pressure 208 PSI - Temperature out of
Separators - 401° - Control Valves - 1's & 2's Both
legs - 3" valves open 45% - 8" valves open 17%
1's-10 West leg only - 3" valve open 60% - 8" valve
open 37% - Pressure at 25 psi At 271° -
ORC # 11, 13, 14, 15, 21, 25 RUNNING

Weather Good

Submitted by E. A. [Signature]

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P. O. Box 373
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DAILY REPORT

July 18, 1994

Well No. Powah Pumps Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM. Running 6 units - Producing
16.8 mm. Mt. Flow Rate of 300,000 #/hr Steam -
Flow Line Pressure 207 psi - Temperature out of
Separators - 461°F. Control Valves - 159 Both
Legs 3" Valves open 45% - 8" Valves open 17% -
15 to West Leg only - 3" Valve open 60% - 8" Valve
open 37% - Reduction of 25 psi at 223°F -
OIL # 11, 13, 14, 15, 21, 25 Running

Weather Good

Submitted by Eric Tash

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 15, 1994

Well No. Powah Plumer Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:00 Am Running 6 units - Producing 16.7 m
14kt - Flow Rate of 305,000 #/hr Steam - Flow Line
Pressure 202 PSE - Temperature out of Separators
399°F - Control Valve - 1/5-9 Both Legs - 3"
Valve open 45% - 8" Valve open 17% - 1/5-10 - West
Leg only - 3" Valve open 60% - 8" Valve open 37% -
Reduction at 28 PSE at 210°F - One #11, 14, 15, 21,
22, & 25 RUNNING

Weather DRY

Submitted by Eli Cook

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 14, 1994

Well No. Pouma Plant Contractor PVO

DESCRIPTION OF ACTIVITIES

At 11:40 AM. Pumping 6 Units - Producing
16.4 M.W. MFT - Flow Rate of 305,000 #/HR STAIR -
Flow Line Pressure of 205 PSI - Temperature
out of Separators - 400°F. Control Valve
1CS-9 Both Legs - 3" Valve open 45% - 8" Valve
open 17%. 1CS-10 West Leg Only 3" Valve
open 60% - 8" Valve 37% - Re-energized at
75 PSI. At 215°F. OIL #11, 13, 15, 21, 22, & 25 RUNNING.

Weather Good

Submitted by E. J. Tuck

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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 13, 1994

Well No. Powah Plant Contractor Plu

DESCRIPTION OF ACTIVITIES

At 10:30 am. RUNNING 6 units - PRODUCING
16.8 m.w. net - Flow Rate of 305,000 #/hr Steam -
Flow Line Pressure 204 psf - Temperature out of
Separator 399°F. Control Valve - 1/8" open
Lass 3" valve open 48% 8" valve open 35% -
1/8" to West bay only - 3" valve open 60% - 8" valve
open 35% - Reinjector at 31 psf at 211°F -
OIL # 11, 14, 15, 21, 22, & 25 RUNNING

Weather Good

Submitted by Eun Parker

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DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 12, 1994

Well No. Powau Plumer Contractor PLC

DESCRIPTION OF ACTIVITIES

At 12:05 P.M. RUNNING 4 UNITS - PRODUCING
16.8 M.W. NET - Flow Rate of 305,000 #/hr Steam
Flow Line Pressure 204 PSI - Temperature out of
Separators 399°F - Control Valves - 1K5-9 Both
Less - 3" Valves open 45% - 8" Valves open 16% -
1K5-10 West Leg only - 3" Valve open 60% - 8" Valve
open 30% - Pressure at 33 PSI at 213°F -
OIL # 11, 14, 15, 21, 22, & 25 RUNNING

Weather Good

Submitted by Jim Gahan

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 11, 1994

Well No. Powen Plant Contractor SLC

DESCRIPTION OF ACTIVITIES

At 10:15 AM. RUNNING 6 UNITS - Producing 16.8 m.w.
Net - Flow Rate of 305,000 #/hr Steam - Flow Line
Pressure 202 psig - Temperature out of Separators 399°F.
Control Valves - K8-9 Both CLOS - 3" Valve open 48%
8" Valve open 16% - K8-10 Wast leg only. 3" Valve
open 60% - 8" Valve open 34% - REINJECTION AT
18 PSI AT 207°F - OIL #11, 14, 15, 21, 22, & 25 RUNNING

Weather Cloudy

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 8, 1994

Well No. Pouma Pumps Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:00 AM RUNNING 6 Units - Producing
16.8 m.w. Flow Rate of 300,000 #/hr Steam - Flow
Line Pressure 205 PSI - Temperature out of
Superheaters 400°F - Control Valve - K89 Both Legs -
3" Valve open 48% - 8" Valve open 16% - K8-10
Went Leg only - 3" Valve open 68% - 8" Valve open 37% -
Refrigeration at 27 PSI - at 215°F - Oil #11, 14, 15, 21, 22, & 25
RUNNING

Weather Good

Submitted by Eiri Tarka

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 7, 1994

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 6 units. Producing
16.8 m.w. net. Flow Rate of 305,000 #/hr Steam
Flow Line Press 203 PSI Temperature out of
Separators 399°F. Control Valves - 1K5-9 Both
legs - 3" Valves open 48% - 8" Valves open 16%
1K5-10 West leg only - 3" Valves open 60% - 8"
Valves open 40% - Pressure at 75 PSI at 721°F.
OIL # 11, 14, 15, 21, 22, & 25 RUNNING

Weather Clear

Submitted by Eric Tulea

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 6, 1994

Well No. Powah Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:35 AM Running 6 units - Producing
17.0 M.W. Net - Flow Rate of 310,000 #/hr Steam -
Main Line Pressure 208 PSI - Temperature out of
Separators 401°F - Control Valve - 1K-9 Both Legs
3" Valves open 48% - 8" Valve open 16% - 1K-10
West Leg only - 3" Valve open 60% - 8" Valve
open 40% - Production at 25 PSI at 218°F -
Ore # 11, 12, 15, 21, 22, & 25 Running.

Weather Good

Submitted by E. Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 5, 1994

Well No. Pouma Plant Contractor PGW

DESCRIPTION OF ACTIVITIES

At 10:40 Am. RUNNING 6 units PROGRESS
16.6 m.w. NIES - Flow RATE OF 300,000 GPM STATION -
Flow Line Pressure 201 PSI - Temperature OUT
OF SEPARATORS 399°F - Control Valves - 1K-9 BOLD
Legs - 3" Valves OPEN 45% - 8" Valves OPEN
16% - 1K-10 West Leg only - 3" Valve OPEN
60% - 8" Valve 37% - REINJECTION AT 24 PSI
AT 2:20 PM - DEC #11, 12, 15, 21, 24, & 25 RUNNING

Weather Good

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 1, 1994

Well No. Powena Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10.45 am. Running 6 units. Producing
16.9 m.w. net. Flow rate of 300,000 #/hr. Steam.
Flow Line Pressure 201 PSI. Temperature out
of Steam 399°K. Control valves - 1/8-9 both
less - 3" valves open 50% - 8" valves open 16% -
1/8-10 - West leg only - 3" valve open 55% - 8" valve
open 38% - Radiation at 30 PSI at 221°K.
ORC # 11, 12, 14, 21, 22, & 25 Running.

Weather Cloudy

Submitted by Eric Dahl

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

DATE 30, 1994

Well No. Powah Pumer Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:20 AM. RUNNING 6 units. Producing
16.8 m.w. NWT. Flow Rate of 305,000 bbl/hr. Steam
Flow Line Pressure 205 psi. Temperature out of
Separators 400°F. Control Valves 16-9 Both
Less - 3" Valves open 50%. 8" Valves open 100%
16-10 West Leg only - 3" Valve open 55% - 8"
Valve open 39% - Reinjection 28 psi at 218°F -
OK 11, 12, 14, 21, 22, & 25 RUNNING

Weather Good

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 29, 1994

Well No. Powah Plant

Contractor PLV

DESCRIPTION OF ACTIVITIES

AT 10:40 AM. RUNNING 6 Wells - Producing 16.6
M.W. Mkt - Flow Rate of 305,000 ft^3/hr Stream - Flow
Line Pressure 204 PSE - Temperature out of
Separators 400°F - Control Valves - 15-9 Both
Lugs - 3" Valves open 50% - 8" Valves open 10%
15-10 West Lug only - 3" Valve open 55% - 8"
Valve open 43% - Re Injection 25 PSE at 217°F -
DRL # 11, 12, 14, 21, 22, & 25 RUNNING

Weather Good

Submitted by Eric Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JUNE 28, 1994

Well No. Pouma Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:05 AM. RUNNING 6 UNITS - PRODUCING
17.0 m.w. MWT - Flow Rate of 305,000 #/hr Steam -
Flow Line Pressure 206 PSI - Temperature out
of Separators. 400°F - Control Valves. 1S-9
Both legs. 3" Valves open 45% - 8" Valves open
16% - 1S-10 West leg only. 3" Valve
open 50% - 8" Valve open 44% - Ramping in
Line. At 25 PSI At 214°F. OIL #11, 12, 15, 21, 22,
+ 25 RUNNING.

Weather Good

Submitted by Jim Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 27, 1994

Well No. Powah Plant Contractor FLW

DESCRIPTION OF ACTIVITIES

At 10:20 AM. RUNNING 6 units. Producing
17.1 m.w. unit - Flow Rate of 305,000 bbl/m Stamm -
Flow Line Pressure 206 psc - Temperature out
of Separators 401° - Control Valves - 1K-9
BWH Loss - 3" Valves open 45% - 8" Valves open
10% - 1K-10 - West leg only - 3" Valve
open 65% - 8" Valve open 43% - Restriction
At 23 psc At 210° - Oils # 11, 12, 15, 21, 22, & 25
Running

Weather Good

Submitted by Jim Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 24, 1994

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:45 AM RUNNING 6 UNITS - PRODUCING
16.6 M.W. (ONE PAN ON COOLING UNIT BEING FIXED)
FLOW LINE PRESSURE 202 PSI - TRANSMISSION OUT OF
SEPARATORS 399°F - CONTROL VALVES - K5-9 R1H
LESS - 3" VALVES OPEN 45% - 8" VALVES OPEN 16%
K5-10 LAST LRG ONLY - 3" VALVE OPEN 50% - 8" VALVE
OPEN 33% - REJECTION AT 25 PSI AT 218°F.
OIL #11, 12, 13, 15, 17, & 25 RUNNING

Weather GOOD

Submitted by Eric Dahl

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

CHUCK 23, 19 84

Well No. Pouan Plant

Contractor PLV

DESCRIPTION OF ACTIVITIES

At 10.10 AM. RUNNING 6 UNITS - PRODUCING
17.2 MW NET - FLOW RATE OF 305,000 #/HR STEAM -
FLOW LINE PRESSURE 205 PSI - TEMPERATURE OUT OF
SEPARATORS 400°F - CONTROL VALVES - 1/8-9 BOTH
CLOSE - 3" VALVES OPEN 45% - 8" VALVES OPEN 16%
1/8-10 LAST LOG ONLY - 3" VALVE OPEN 50% - 8" VALVE
OPEN 32% - PRESSURE AT 20 PSI AT 216" -
DIE # 11, 12, 13, 15, 22, & 25 RUNNING

Weather Cloud

Submitted by Eric Oul

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 22, 1994

Well No. Nowan Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM. Running 6 units - Producing 12.1 MW.
Net - Flow Rate of 300,000 ft^3/hr Steam - Flow Line
Pressure 200 PSI - Temperature out of Separator -
398°F. Control Valves - 12S-9 Both legs 3" Valves
open 45% - 8" Valve open 16% - 12S-10 West
leg only - 3" Valve open 51% - 8" Valve open 31% -
Reinspection at 2285E at 215°F. OK #12, 13, 14, 15, 22, & 25
Running

Weather Good

Submitted by Eric Gask

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 21, 1994

Well No. Powen Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM. RUNNING 6 UNITS. PRODUCING 17.2 mwd
1441 - Flow Rate of 310,000 #/hr Steam - Flow Line
Pressure - 206 PSI - Temperature Out of Separators -
401°R - Control Valve - KS-9 Both legs - 3" valves
open 45% - 8" valve open 16% - KS-10 West leg
only - 3" valve open 50% - 8" valve open 32% -
Regulation at 25 PSI at 206°R - OKC #12, 13, 14, 15, 16, 17, 18
RUNNING

Weather Good

Submitted by E. T. T. T.

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 17, 1994

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:00 Am RUNNING 6 UNITS - PRODUCING
17.2 MM. MWT - Flow Rate of 310,000 #/hr Steam -
Flow Line Pressure 206 PSI - Temperature out of
Separators - 401°F - Control Valves Ks-3 Both Legs -
3" Valves open 41% - 8" Valves open 16% - Ks-10
West Leg Only - 3" Valve open 50% - 8" Valve open 32%
RESTRICTOR - 34 PSI AT 207°F - ORC #12, 13, 14, 15, 22, + 25
RUNNING

Weather Clear

Submitted by E. Owen

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 16, 1994

Well No. Power Plant

Contractor PCU

DESCRIPTION OF ACTIVITIES

At 11:00 Am. Running 6 units - Producing -
17.2 m.w. net - Flow Rate of 310,000 #/hr Steam -
Flow Line Pressure 206 PSI - Temperature out of
Separators 401°K - Control Valves - 15-9 Both
Lys - 3" Valves open 40% - 8" Valves open 10%
15-10 - West Leg only - 3" Valve open 50% - 8" Valve
open 30% - Pressure 40 PSI at 199°F - Oil #12,
13, 14, 15, 22, & 25 Running

Weather Good

Submitted by Jim Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
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P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 15, 1994

Well No. Power Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:45 AM RUNNING 6 UNITS - PRODUCING -
17.5 MM. MHT - Flow Rate of 300,000 GPM Steam -
Flow Line Pressure 204 PSF - Temperature out of
Separators - 400°F - Control Valves - 1/8-9 Both
Logs - 3" valves open 41% - 8" valves open 16% -
1/8-10 West log only - 3" valve open 50% - 8"
valve open 35% - Reinsulation line at 21 PSI at
209°F - OIL # 11, 13, 14, 15, 22, & 25 RUNNING

Weather RAIN

Submitted by E. Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 14, 1994

Well No. Power Plant

Contractor FLW

DESCRIPTION OF ACTIVITIES

At 10:05 AM. Running 6 units. Producing
16.9 m.w. net. Flow Rate of 304000 #/hr Steam
Flow Line Pressure 203 PSF - Temperature out
of Separator - 399°F - Control Valve - 1K5-9
Both legs 3" Valve open 41% - 8" Valve open
16% - 1K5-10 West leg only - 3" Valve open 50%
8" Valve open 32% - East leg 3" control Valve being
worked on to Repair - Rejection Line at 27 PSF
at 198°F - Dec #11, 12, 13, 14, 22, & 25 Running -
on Friday of last week Plant shut down due
to leak on Rejection line - Replaced section of
line - Down for approx 4 hours - No problems
with shut down and start up.

Weather Partly

Submitted by Jim Gault

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 9, 1994

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:35 p.m. RUNNING 6 units - PRODUCING
16.4 M.W. NET - FLOW RATE OF 300,000 #/hr Steam -
Flow Line Pressure 198 PSI - Temperature out of
Separators 396°F - Control Valves - Ks-9 Both
LASS - 3" Valves OPEN 65% - 8" Valves OPEN 11%
Ks-10 Both LASS 3" Valves OPEN 60% - 8" Valves
OPEN 17% - REINJECTION LINE 17 PSI - Temperature
273°F - OIL #11, 12, 13, 14, 22, & 25 RUNNING

Weather Good

Submitted by Eric Ouelh

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 8, 1994

Well No. Powah Pumps

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:50 am RUNNING 6 units - Producing
16.2 m.w. NRT - Flow Rate of 300,000 ¹/₁₁ GPM -
Flow Line Pressure 197 PSI - Temperature out of
Separators 396°K - Control Valves - 1K5-9 Both
LSS - 3" Valves open 64% - 8" Valves open 11%
1K5-10 Both LSS - 3" Valves open 60% - 8" Valves
open 18% - Rejection Line at 24 PSI - at 210°K -
One # 11, 12, 13, 14, 22, & 25 RUNNING

Weather Good

Submitted by Eui Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 7, 1974

Well No. Power Plant

Contractor P60

DESCRIPTION OF ACTIVITIES

AT 10:15 AM RUNNING 6 UNITS - PRODUCING
16.4 MW NET - Flow Rate of 295,000 #/hr Steam -
Flow Line Pressure 200 PSE - Temperature out of
Separators - 398°F - Control Valves - 1/5-9 Both
Lugs 3" Valves open 63% - 8" Valves open 11% -
1/5-10 Both Lugs - 3" Valves open 60% - 8" Valves
open 17% - Pressure Line at 24 PSE at
219°F - Oils #11, 12, 13, 14, 22, & 25 RUNNING

Weather Good

Submitted by Jim Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 6, 1994

Well No. Powah Pluma Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:50 Am RUNNING 6 Units - PRODUCING
16.0 M.W. NPT - Flow Rate OF 300,000 #/hr Steam -
Flow Line Pressure 195 PSI - Temperature out
of Separators - 395°F - Control Valves - 1K5-9 Both
legs - 3" VALVES OPEN 60% - 8" VALVES OPEN 11% -
1K5-10 Both legs - 3" VALVES OPEN 60% - 8" VALVES
OPEN 17% - Rejection AT 25 PSI AT 205°F -
OIL # 12, 13, 14, 15, 24, & 25 RUNNING

Weather RAIN

Submitted by E. T. T. T.

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 3, 1974

Well No. Poway Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:55 AM RUNNING 6 units - PRODUCING
16.3 m.w. MPT - Flow Rate of 300,000 ^{ft}/hr Steam -
Flow Line Pressure 199 PSI - Temperature out of
Separators at 397°F - Control Valves - 11.9 Both
Less. 3" Valves open 65% - 8" Valves open 11%
11.5.10 Both Less. 3" Valves open 60% - 8" Valves
open 17% - Rejection at 23 PSI at 227°F -
One # 11, 12, 13, 14, 15, & 28 RUNNING

Weather Good

Submitted by Jim Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 2, 1994

Well No. Powah Plumer

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:10 AM. Running 6 units - Producing
16.5 m.w. MWT - Flow Area of 300,000 #/hr steam.
Flow Area Massena 199 PSI - Compression
out of Separators - 397°F - Control valves - 125-9
Both Lags - 3" valves open 65% - 8" valves open 112
125-10 Both Lags - 3" valves open 60% - 8" valves
open 152% - Regulation at 22 PSI at 223°F.
OK # 11, 12, 13, 14, 15, & 25 Running

Weather Good

Submitted by Eric Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

January 1, 1994

Well No. Powena Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 10:45 AM. RUNNING 6 UNITS. PRODUCING
16.4 m.w. NKT. Flow Rate of 300,000 $\frac{1}{hr}$ Steam -
Flow Line Pressure 198 PSI - Temperature out of
Separators - 397°F - Control Valves - 1K5-9 Both
Less - 3" Valves open 65% - 8" Valves open 11% -
1K5-10. Both Less - 3" Valves open 60% - 8" Valves
open 16% - ReInjection Line Pressure 20 PSI
At 227°F - OK #11, 12, 13, 14, 15, & 24 RUNNING -
Early THIS MORNING - ReInjection Line Failure
(Leak) - Recurred High of 5 PSIG Spiller At
Burning - Repaired Leaks - No H₂S After
Repairs -

Weather

Cloud

Submitted by

Eric Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 31, 1994

Well No. Powah Plains Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:10 AM RUNNING 6 UNITS - PRODUCING
16.0 M.W. NET - FLOW RATE OF 300,000 #/HR STEAM
FLOW LINE PRESSURE 193 PSE - TEMPERATURE OUT
OF SEPARATORS 394°F - CUMUL. UNITS -
KS-9 BOTH LSS - 3" UNITS OPEN 64% - 8" UNITS
OPEN 11% - KS-10 - BOTH LSS - 3" UNITS OPEN
60% - 8" UNITS OPEN 16% - REJECTING AT
25 PSE AT 223°F - OIL #11, 12, 13, 14, 15, & 24 RUNNING

Weather Good

Submitted by Eric Dahl

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 27, 1994

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 11:15 Am. RUNNING 6 LINES - PRODUCING
16.5 m.w. NIT - Flow Rate of 305,000 #/hr Steam -
Flow Line Pressure 200 PSI - Temperature out of
Separators 398°F - Control Valves - 1S-9 Both Lags
3" Valves open 65% - 8" Valves open 11% - 1S-10 Both
Lags - 3" Valves open 60% - 8" Valve open 18% -
Refrigeration Line At 21 PSI At 207°F - Oils #11, 12, 13,
14, 15, & 24 RUNNING

Good

Submitted by Di. Gaudin

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAY 26, 1994

Well No. Power Plant Contractor P20

DESCRIPTION OF ACTIVITIES

At 10:25 AM Running 6 units - Producing
16.4 m.w. net - Flow Rate of 300,000 #/hr Steam
Flow Line Pressure 195 PSI - DRUM PRESSURE OUT
of Separator 395 PSI - Control Valves - 1K5-9
Both CLOS - 3" Valves open 65% - 8" Valves open 112%
1K5-10 - Both CLOS - 3" Valves open 60% - 8" Valves
open 182% - OIL #11,12,13,14,15, & 25 RUNNING

Weather RAIN

Submitted by Eric Danks

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 25, 1994

Well No. Powah Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:45 AM. RUNNING 6 UNITS. PRODUCING 16.0
m.w. NET - Flow Rate 295,000 #/hr Steam - Flow
LINE Pressure 179 PSF - Temperature out of
Separators 389°F - Control Valves 12-9 Both Luss.
3" Valves open 64% - 8" Valves open 11% -
12-10 Both Luss - 3" Valves open 60% - 8"
Valves open 16% - Rejection Pressure 12 PSF
At 211°F - One # 11, 12, 13, 15, 24, & 25 RUNNING

Weather Partly

Submitted by Eli Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 24, 1994

Well No. POWER PLANT

Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:35 Am. RUNNING 6 UNITS - PRODUCING 16.0
M.W. MWT - Flow Rate of 295,000 #/HR Steam - Flow
LINE Pressure 192 PSI - Temperature out of Separator
394°F - Control valves - 12-9 Both Less - 3" valves
open 63% - 8" valves open 11% - 12-10 - Both
Less 3" valves open 60% - 8" valves open 16% -
Refrigeration - at 16 PSI AND 220°F - OIL # 11, 13, 14,
15, 24, & 25 RUNNING

Weather Clear

Submitted by Eric Gordon

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 23, 1974

Well No. Power Plant

Contractor PCO

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 6 UNITS - PRODUCING
16.0 m.w. MWT - Flow Rate of 290,000 #/hr Steam -
Flow Line Pressure 186 PSI - TEMPERATURE OUT
OF SEPARATORS - 391°F - CONTROL VALVES - 12S-9
Both Legs - 3" VALVES OPEN 63% - 8" VALVES OPEN
110% - 12S-10 Both Legs - 3" VALVES OPEN 60%
8" VALVES OPEN 16% - REINJECTION PRESSURE 17 PSI.
ORE # 11, 13, 14, 15, 24, & 25 RUNNING -

Weather Partly

Submitted by Jim Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 20, 1994

Well No. Power Plant Contractor PLG

DESCRIPTION OF ACTIVITIES

At 10:15 Am. RUNNING 6 UNITS - PRODUCING
16.0 M.W. NET - Flow Rate of 290,000 #/hr steam.
Flow Line Pressure 191 PSI - Temperature out of
Separators 393°F - Control Valves 1K5-9 B1H
Loss - 3" Valves open 65% - 8" Valves open 11%
1K5-10 B1H Loss - 3" Valves open 60% - 8" Valves
open 15% - ReInjection Pressure 17 PSI -
ORL #11, 13, 14, 15, 24, & 25 RUNNING

Weather Coon

Submitted by Eric Ouellet

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 19, 1994

Well No. Powah Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

At 9:55 AM Running 6 units. Producing 16.2
m.w. Net - Flow Rate of 250,000 #/hr Steam - Flow
Line Pressure 188 PSI - Temperature out of
Separators 392°F. Control Valve - 165-9 100%
Loss - 3" Valve open 63% - 8" Valve open 11%
165-10 100% Loss - 3" Valve open 60% - 8" Valve open
17% - Injection Pressure - 14 PSI -
OPC 12, 13, 14, 15, 24, & 25 Running

Weather Clear

Submitted by Eini Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 18, 1994

Well No. Powar Plant.

Contractor PGV

DESCRIPTION OF ACTIVITIES

At 11:25 Am. Running 6 units - Producing 16.4
M.W. NPT - Flow Rate 305,000 #/hr Steam - Flow Line
Pressure 200 PSI - Temperature out of Separator
398°F. Control Valves - 1K-9 Both LSS 3" valves
open 63% 8" valves open 11% - 1K-10 Both LSS
3" valves open 60% - 8" valves open 15% - One #12, 13,
14, 15, 24, & 25 Running

Weather Good

Submitted by Jim Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 17, 1994

Well No. Powah Plumer

Contractor PCV

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 6 Units - Producing
16.5 m.w. NLT - Flow Rate 300,000 #/hr. Stem - Flow
Line Pressure 197 PSI - Temperature Out of
Saprometers - 396°F - Control Valve - 1K5-9 Both Legs
3" Valves open 63% - 8" Valve open 11% - 1K5-10
Both Legs - 3" Valves open 60% - 8" Valve open
14% - DRL # 11, 12, 13, 14, 15, & 25 RUNNING.

Weather Good

Submitted by Eric Anderson

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 16, 1994

Well No. Powar P1111 Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:35 am. Running 6 units - Producing 16.4
m.w. MWT - Flow Rate 295,000 #/hr Steam - Flow
Line Pressure 192 PSI - Temperature out of
Separators - 394°F - Control Valves - 1CS-9 Both
LCS - 3" Valves open 63% - 8" Valves open 11% -
1CS-10 Both LCS - 3" Valves open 60% - 8" Valves
open 15% - OIL #11, 12, 13, 14, 15, & 25 RUNNING -

Weather RAIN

Submitted by Eric Tash

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 13, 1974

Well No. Powah Plains

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:55 Am. RUNNING 6 UNITS - PRODUCING
16.2 m.w. MWT - Flow Rate of 300,000 #/hr. Steam.
Flow Line Pressure 200 PSI - Temperature out
of Separator 398°F - Control Valves - K5-9 All
Legs - 3" Valves open 65% - 8" Valves open 11% -
Legs - 10 Beta Legs - 3" Valves open 60% - 8" Valves
open 16% - OIL #11, 12, 13, 14, 15, & 25 RUNNING

Weather Good

Submitted by R. Baker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 12, 1994

Well No. Pouma Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:20 AM RUNNING 6 UNITS - PRODUCING
16.2 M.W. MPT - Flow Rate - 304000 #/hr Steam -
Flow Line Pressure 197 PSI - Temperature out
of Separator - 390°F - Control Valves - 125-9
Both Legs 3" Valves OPEN 63% - 8" Valves OPEN
11% - 125-10 Both Legs - 3" Valves OPEN 60%
8" Valves OPEN 18% - ORC # 11, 12, 13, 14, 15, & 25
RUNNING,

Weather RAIN

Submitted by Jim Cook

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 11, 1994

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM. RUNNING 6 UNITS - PRODUCING
16.4 mm NIT - Flow Rate 300,000 #/hr Steam -
Flow Line Pressure 195 PSI - Temperature out of
Separators - 397°F - Control Valve - 1CS-9 Both Legs
3" Valves open 63% - 8" Valves open 11% - 1CS-10
Both Legs - 3" Valves open 60% - 8" Valves open
15% - Oils #11, 12, 13, 14, 15, & 25 RUNNING

Weather Good

Submitted by Lin Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 10, 1994

Well No. Power Plant

Contractor PGO

DESCRIPTION OF ACTIVITIES

At 11:10 Am RUNNING 6 UNITS - PRODUCING -
16.4 m.w. MKT - Flow Rate 300,000 #/hr Steam
Flow Line Pressure 201 psi - Temperature out
of Separators 398°F - Control Valves - KS-9
Both Legs - 3" valves open 63% - 8" valves open 11%
KS-10 Both Legs - 3" valves open 60% - 8" valves
open 15% - OHC # 11, 12, 14, 15, 21, & 25 RUNNING

Weather Good

Submitted by Jim Gault

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 6, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:25 AM RUNNING 6 UNITS - PRODUCING
16.0 m.w. MWT - Flow Rate - 295,000 #/hr Steam
Flow Line Pressure 197 PSI - Temperature out of
Separators - 396°F - Control Valves - 1LS-9 - BOTH
Lays - 3" valves open 65% - 8" valves open 11% -
1LS-10 Both Lays - 3" valves open 60% - 8" valves
open 18% - OIL # 11, 12, 14, 15, 21, & 25 RUNNING

Weather

Good

Submitted by

E. Anderson

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 5, 1994

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10.15 AM. RUNNING 6 UNITS. PRODUCING
16.0 m.w. MWT - Flow Rate 295,000 #/hr Steam -
Flow Line Pressure 201 PSI - Temperature out of
Separators - 398°F - Control Valves - 1Ks-9 Both legs
3" valves open 63% - 8" valves open 11% - 1Ks-10
Both legs - 3" valves open 66% - 8" valves open 17% -
One # 11, 12, 13, 14, 15, & 21 RUNNING.

Weather Good

Submitted by Eric Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 4, 1994

Well No. POWAK PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 12:10 P.M. RUNNING 6 units PRODUCING
16. MW. MFT - Flow Rate - 295,000 #/M. Stem - Flow
LINE PRESSURE 197 PSI - Temperature out of
SEPARATORS - 396°K - Control valves - 1/2" 9 Both
legs - 3" valves open 60% - 8" valves open 11% -
1/2" 10 Both legs - 3" valves open 60% - 8" valves
open 14% - DRC # 11, 12, 13, 14, 21, & 22 RUNNING

Weather Good

Submitted by Eric Park

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 3, 1994

Well No. Pouma Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:35 Am. RUNNING 6 UNITS - PRODUCING -
16 MW. NET. - Flow Rate 290,000 #/hr Steam -
Flow Line Pressure 191 PSI - Temperature out of
Separators 394°F - Control Valves KS-9 Both Lags
3" Valves OPEN 63% - 8" Valves OPEN 11% - KS-10
Both Lags - 3" Valves OPEN 60% - 8" Valves OPEN 13%
OIL # 11, 12, 13, 14, 21, & 22 RUNNING

Weather Good

Submitted by Jim Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 2, 1994

Well No. Powere Plains

Contractor PLD

DESCRIPTION OF ACTIVITIES

At 9:50 AM Running 6 units producing 14 M.W.
Net- Flow Rate 250,000 #/hr Steam- Flow Line
Pressure 152 PSI - Temperature out of Separators
387°F. Control Valves Ks-9 Both Lags 3" valves
open 61% - 8" valves open 11% - Ks-10 Both Lags
3" valves open 60% - 8" valves open 8% -
Occ #11, 12, 13, 14, 21, & 22 Running- Production lower
Due to Bad Break Pump - (being changed out)

Weather Good

Submitted by Jim Tahn

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 21, 1994

Well No. POWER PLANT

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:45 AM. Running C units. Producing
16 M.W. NAT- Flow Rate 295,000 #/hr Steam - Flow
Line Pressure 196 PSI - Temperature out of
Separators - 395°F - Control Valves - 1C5-9 Both
Less - 3" valves open 61% - 8" valves open 110%
1C5-10. East Leg - 3" valve open 60% - 8" valve open
110% - West Leg - 3" valve open 50% - 8" valve
open 10% - OIL #11, 12, 13, 14, 21, & 22 Producing
Power - OIL #25 Bring Pressure

Weather Good

Submitted by Eli Tule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

APRIL 20, 1994

Well No. Powena Plant

Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:45 am. Running 6 units. Producing 13 mw.
Mkt. Flow Rate of 270,000 #/hr. Steam - Flow Line
Pressure 198 PSI - Temperature Out of Separators.
396° F. Control Valves - K5-9 Both Legs 3" Valves open
42% - 8" Valves open 11% - (Flow Rate of 200,000 #/hr.) -
K5-10 Both Legs - 3" Valves open 60% - 8" Valves
open 12% - ORC #11, 12, 13, 14, 15, & 21 Producing Power
ORC #25 BEING PAINTED

At 12:15 pm. Production up to 16 mw. Mkt.

Weather Partly

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

APRIL 19, 1994

Well No. POWER PLANT.

Contractor PCV

DESCRIPTION OF ACTIVITIES

At 10:35 AM. RUNNING 4 UNITS - PRODUCING
11 M.W. NET - Flow Rate - 210,000 #/HR Steam - Flow
LINE PRESSURE 195 PSF - Temperature out of Separator
393°F - CONTROL VALVE 1KS-9. FIRST LAG 8" VALVE
OPEN 55% - WEST LAG - 8" VALVE OPEN 60% - (Flow of
180,000 #/HR) - 1KS-10. BOTH LAGS - 3" VALVES OPEN 60%
8" VALVES OPEN 17% - OIL #11, 13, 14, 15 RUNNING -
OIL #21 ON HEAT REMOVAL PUMP.

Weather GOOD

Submitted by Eric Tauler

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

APRIL 18, 1994

Well No. Pouma Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 11:15 AM. RUNNING 2 units - (300 unit on
Heat Removal work) - Producing 4. m.w. net -
Flow Rate of 117,000 #/hr Steam - Flow Line Pressure
180 psi - Temperature out of Separators 355°F.
Control Valves - 15-10 (Both legs) - 3' valves open
30% - 8' valves open 14%. (Planes near to
Restart 15-9 sometime today. - ORC #14 and
#15 producing - ORC #21 in Heat Removal work

Weather Good

Submitted by _____

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 15, 1994

Well No. Power Plant.

Contractor PLG

DESCRIPTION OF ACTIVITIES

Plumbers Shut Down - Try to Start-up Yesterday -
With KS-10 - Encountered Mechanical Problems -
Shut In to Do Repairs - Possible to Restart
This Afternoon.

Weather Good

Submitted by Eini Amala

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 14, 1994

Well No. Powena Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

Plans Shut Down For Completion of New 6'
Brine Line

Weather Good

Submitted by E. J. Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 13, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

PLANS SHUT DOWN FOR CONNECTION OF NEW 6"
BRAIN LINE.

Weather RAINY

Submitted by Eric T. [Signature]

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 12, 1994

Well No. Powena Plant

Contractor PLV

DESCRIPTION OF ACTIVITIES

Plant shut down for completion of new to
bring line and maintenance work. Probably
to be down for a total of 4 days till
Thursday

Weather RAIN

Submitted by [Signature]

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 31, 1994

Well No. Power Plants

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:50 A.M. RUNNING 8 UNITS - PRODUCING 24.6
M.W. Net. FLOW RATE 410,000 #/hr STAMP - FLOW LINE
PRESSURE 216 PSE - TEMPERATURE OUT OF SEPARATORS
409°F. CONTROL VALVES 1LS-9 3" AND 8" VALVES
OPEN 56% - 1LS-10 - PRESS 440 - 3" VALVE OPEN 35% -
8" VALVE OPEN 14% - OIL #15 DOWN FOR PAINTING -
OIL #21 DOWN FOR MAINTENANCE
PLANT SCHEDULE SHUT-DOWN POSTPONED FOR ONE
WEEK TO START ON SUNDAY APRIL 10, 1994

Weather Good

Submitted by E. Tash

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 30, 1994

Well No. Poway Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:25 AM RUNNING 8 UNITS - PRODUCING 247
MM. MWT - Flow Rate 415,000 #/hr Steam - Flow Line
Pressure 217 PSI - Temperature Out of Separators
410°F. Control Valves - 1LS-9 3' and 8' valves open
56% - 1LS-10 KASO Log - 3' valve open 35% - 8'
valve open 15% - ORC #15 Down for Painting -
ORC #25 Down for Maintenance

Weather Good

Submitted by E. Tule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar. 29, 1994

Well No. Poway Plains Contractor PW

DESCRIPTION OF ACTIVITIES

At 10:50 am - Running 8 units - Producing 25.0
m.w. nat - Flow Rate - 415,000 #/hr Steam - Flow Line
Pressure 218 PSE - Temperature out of Separator -
409°F - Control valves - LS-9 3" and 8" valves open
53% - LS-10 1" and 2" valves 3" valve open 35% - 8"
valve open 15% - OIL #15 Down for maintenance -
OIL #24 Down for maintenance

Weather Good

Submitted by Eric Park

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 28, 1994

Well No. POWER PLANT

Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:50 P.M. RUNNING 8 UNITS - PRODUCING -
25.5 m.w. NET - Flow Rate of 410,000 #/hr Steam
Flow Line Pressure 217 PSI - Temperature Out of
Separators - 410°F - Control Valves - ICS-9 3" and 8"
Valves OPEN 57% - ICS-10 Pass Leg - 3" Valve OPEN
35% - 8" Valve OPEN 15% - ORE #15 DOWN FOR
PAINTING - ORE #24 DOWN FOR MAINTENANCE

Weather RAIN

Submitted by Jim Gault

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 24, 1994

Well No. Power Plant Contractor PCU

DESCRIPTION OF ACTIVITIES

At 10:50 am. Running 8 units. Produced 245 m.w.
Net. Flow Rate 410,000 #/hr. Steam - Flow Rate
Pressure 217 psi. Temperature out of Separators -
409°F. Control Valves - 125-9 3" and 8" Valves open
54% - 125-10 Fast Leg 3" valve open 35% - 8"
Valve open 14% - OIL #15 Down for PMMING
OIL #24 Down for MAINTENANCE

Weather DRY

Submitted by Lin Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MM 23, 1994

Well No. Poway Pinner Contractor PGU

DESCRIPTION OF ACTIVITIES

At 11:05 am. Running 8 units - producing 25.0
mlw. Met. Flow rate 410,000 #/hr. Strain - Flow Line
Pressure 219 PSI - Displacement out of Separators
410' - Control valves. KS-9 3' and 8' valves
Open 54% - KS-10 East leg 3' valve open 35%
8" valve open 15% - OIL #15 Down for
Pinning - OIL #24 Down for maintenance

Weather Partly

Submitted by Eric Pender

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 22, 1994

Well No. POWER PLANT

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 AM. Running 8 units - Producing 25.0
M.W. Net - Flow Rate 415,000 #/hr steam - Flow
Line Pressure 217 PSI - Temperature out of
Superheaters 409°F - Control Valves - Ks-9-3"
And 8" Valves open 52% - Ks-10 first leg
3" Valve open 35% - 8" Valve open 16% -
OIL #15 Down For Maintenance - Oil #24 Down
For Maintenance.

Weather

Rainy

Submitted by

E. J. Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAR 21, 1994

Well No. Power Plant Contractor P40

DESCRIPTION OF ACTIVITIES

At 11:45 P.M. RUNNING 8 units - PRODUCING 25.0
M.W. NAT - Flow RATE 415,000 #/HR Steam - Flow LINE
PRESSURE 217 PSZ - TEMPERATURE OUT OF SEPARATORS
409°F - CONTROL VALVES - 1CS-9 3" AND 8" VALVE
OPEN 54% - 1CS-10 LAST LEG - 3" VALVE OPEN
35% - 8" VALVE OPEN 14% - OIL #14 DOWN
FOR PAINTING - OIL #24 DOWN FOR PAINTING.

Weather Good

Submitted by Eric Tinker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

11APR 18, 1994

Well No. POWER PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 12:25 P.m. RUNNING 8 UNITS. PRODUCING 25.0
M.W. NET - Flow Rate 415,000 #/hr steam - High Line
Pressure 219 PSI - Temperature out of Separator
410°F - CONTROL VALVES Ks-9 - 3" AND 8" UNITS
OPEN 54% - Ks-10 - LEAST 20% - 3" VALVE OPEN 30% -
8" VALVE OPEN 17% - OIL #14 DOWN FOR MAINTENANCE
OIL #24 DOWN FOR MAINTENANCE

Weather Good

Submitted by Li Oulu

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAR 17, 1994

Well No. Pouma Pumer

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:30 AM RUNNING 8 UNITS - PRODUCING 25.0
M.W. MFT - Flow Rate 415,000 #/HR Steam - Flow Line
Pressure 219 PSIG - Temperature out of Separator
410°F - Control Valves 1K5-9 3" and 8" Valves
Open 54% - 1K5-10 Valve 64% - 3" Valve Open 35%
8" Valve Open 18% - OIL #14 Down for Priming -
OIL #24 Down for Priming.

Weather Partly

Submitted by E. J. Tuck

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mon 16, 1994

Well No. Poway Pump

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:15 p.m. Running 8 units - Producing 25.0
M.W. NRT - Flow Rate 410,000 #/hr. Stopping Flow Line
Pressure - 219 PSI - Temperature out of Separators
410°F - Control Valves - KS-9 3' and 8' valves
open 54% - KS-10 East Leg - 3' valve open
35% - 8' valve open 18% - ORL #14 Down for
Maintenance - ORL #22 Down for Maintenance.

Weather DRY

Submitted by Eric Gault

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

PLAN 15, 1994

Well No. POWER PLANT

Contractor SGO

DESCRIPTION OF ACTIVITIES

At 10.30 AM. RUNNING 8 UNITS - PRODUCING - 25.0
M.W. NAT - Flow Rate of 415,000 #/hr Steam -
Flow Line Pressure 215 PSI - Temperature out of
Separators - 408°F - Control Valves - KS-9 3" and
8" Valves open 52% - KS-10 - Fast Lag - 3" Valve
open 35% - 8" Valve open 17% - OIL #13 DOWN
FOR MAINTENANCE - OIL #22 DOWN FOR MAINTENANCE.

Weather RAIN

Submitted by Eric Tule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar. 14, 1994

Well No. Powena Pump

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:00 A.M. RUNNING 8 UNITS - PRODUCING 25.0
M.W. NET - Flow Rate of 420,000 #/hr Steam - Flow
Line Pressure 220 PSI - Temperature out of Separator -
411°F - Control Valves - KS-9 3" and 8" Valves Open
67% - KS-10 15" Valve - 3" Valve Open 35% -
8" Valve Open 17% - OIL #13 Down For
PAINTING - OIL #22 Down For MAINTENANCE.

Weather Partly

Submitted by Eini Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar. 11, 1994

Well No. Poway Plains Contractor PLO

DESCRIPTION OF ACTIVITIES

At 11:05 Am. RUNNING 8 UNITS - PRODUCING
25.0 m.w. Net - Flow Rate 415,000 #/HR Steam -
Flow Line Pressure 223 PSI - Temperature Out
of Separators - 411°F - Control Valves - KC-9
3" AND 8" VALVES OPEN 61% - KS-10 PASS LAG -
3" VALVE OPEN 35% - 8" VALVE OPEN 18% - ORC #14
DOWN FOR MAINTENANCE - ORC #21 DOWN FOR MAINTENANCE.

Weather Good

Submitted by Jim Oake

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAR 10, 1994

Well No. Pouma Pano

Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:15 AM. Running 8 units. Producing
24.5 m.w. NKT - Flow Rate 415,000 #/hr Steam - Flow
Line Pressure 221 PSI - Temperature out of
Separators - 411°F. Control valves - KS-9 3" open
8" valves open 60% - KS-10 Fast Leg - 3" open
35% - 8" open 16% - OIL #14 DOWN FOR
PRINTING - OIL #15 DOWN FOR MAINTENANCE.

Weather Good

Submitted by Eli Taulu

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAR 9, 1994

Well No. POWELL PLANT

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:50 AM. RUNNING 8 UNITS. PRODUCING
24.5 M.W. NWT. Flow Rate 415,000 #/HR. SORAN -
Flow Line Pressure 270 PSI - TRANSPORTATION OUT OF
SEPARATIONS - 410°F. Control Valves - 1CS-9 EAST LAG,
3" AND 8" VALVES OPEN 54% - WEST LAG - 3" AND 8" VALVES
OPEN 66% - 1CS-10 EAST LAG - 3" VALVE OPEN
35% - 8" CONTROL VALVE OPEN 15% - ORC #14 DOWN
FOR PREVENTING - ORC #15 DOWN FOR PREVENTING -

Weather RAIN

Submitted by Eric Tuck

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 8, 1994

Well No. Powah Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 12:30 p.m. RUNNING 9 UNITS. PRODUCING 24.5
M.W. NAT. Flow Rate 450,000 #/HR Steam Flow
LINE PRESSURE 196 PSZ. TEMPERATURE OUT OF
SEPTIMATORS 403°K. CONTROL VALVE 1K5-9 3" AND 8"
VALVE OPEN 99%. 1K5-10 EAST LG- 3" VALVE
OPEN 35%. 8" VALVE OPEN 16%. OKE #14 DOWN
FOR PRINTING. WELL BR MAKING ADJUSTMENTS IN
PLANT OUT PUT TO STABILIZE 1K5-9 CYCLING. POSSIBLY
22-24 M.W. NAT.

Weather Good

Submitted by Eric Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar. 7, 1984

Well No. Powah Plains Contractor FLW

DESCRIPTION OF ACTIVITIES

At 10:31 AM RUNNING 9 UNITS PRODUCING 245 M.G.
Net - Flow Rate 450,000 #/hr Steam - Flow Line
Pressure 196 PSIG - Temperature out of Separator
403°F - Control Valves - KS-9 3" and 8" open
95% - KS-10 First LUG - 3" valve open 35% -
8" valve 15% - OIL #14 PUMP FOR PRODUCING

Weather Good

Submitted by Elin Goulson

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar 4, 1994

Well No. Powena Pump Contractor PLU

DESCRIPTION OF ACTIVITIES

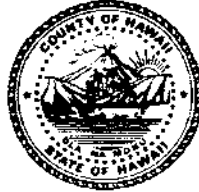
At 10.00 AM. RUNNING 8 units PRODUCING 22
M.W. NET. Flow Rate 390,000 #/hr. Steam - Flow LINE
Pressure 204 PSI. TEMPERATURE OUT OF SEPARATORS
402°R. CONTROL VALVE - 1K5-9 3" AND 8" VALVE OPEN
43% - 1K5-10 1st LEG - 3" VALVE OPEN 35% - 8" VALVE
OPEN 14% - ORE #14 DOWN FOR PRINTING - ORE #13
BEING PREPARED TO BE BROUGHT BACK ON THE GRID. 1K5-3
SHUT IN FOR REPAIRS ON REINJECTION LINE LEAKS.
At 3:00 P.M. RUNNING 9 units. PRODUCING 24.5 M.W.
NET - Flow Rate of 440,000 #/hr. Steam.

A SAMPLE LEAK POINT WAS CUT OUT AND SENT TO
A METALLURGIST FOR ANALYSIS - SPOT CHECK SHOWS PITCH
NEXT TO WELD - WILL WAIT FOR ANALYSIS.

Weather Good

Submitted by Jim Vanh

Stephen K. Yamashiro
Mayor



RECEIVED

'94 FEB 3 AM 9:05

Virginia Goldstein
Director

Norman Olesen
Deputy Director

County of Hawaii DLNR
PLANNING DEPARTMENT OCEA

25 Aupuni Street, Room 109 • Hilo, Hawaii 96720-4252
(808) 961-8288 • Fax (808) 961-9615

CERTIFIED MAIL

January 26, 1994

Mr. Steven E. Morris
Vice President and General Manager
Puna Geothermal Venture
P.O. Box 30
Pahoa, HI 96778

Dear Mr. Morris:

On January 9, 1994, (Sunday) Puna Geothermal Venture (PGV) supposedly notified all agencies regarding your recent plant shutdown. Please be advised that the Planning Department via our Geothermal Compliance Coordinator was not notified. We did not discover there was a planned plant shutdown until your operators called him at 2215hrs reporting an H2S alarm. He was home until 1530hrs and then had his pager turned on until he returned home at 2130 hrs.

We do not understand why a shutdown that was planned on Friday (1/7/94) with HELCO could not have been communicated to all agencies on Friday. We also were completely unaware of continued condensate leaks from this area of piping that caused a plant shutdown in November. This is inexcusable, considering that Mr. Moulds visits your plant quite often and is in phone communication daily.

On Monday morning (1/10/94) at 1007hrs your 24 hour information line (934-9072) had the following information, "This line has been provided to give you a daily update of our power plant and wellfield activities as they occur. Planned activities for today are as follows: Electrical generation is continuing." We find it inexplicable that information regarding the planned shutdown was not placed on your recording well before the shutdown started.

RECEIVED
FEB 3 AM 11:06
DIV. OF WATER &
LAND DEVELOPMENT

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Diagrams
File # 14

Mar 3, 1994

Well No. Powere Plant

Contractor PGU

DESCRIPTION OF ACTIVITIES

At 10:05 AM. Running 9 units - Producing
25.0 m.w. unit - Flow Rate - 45000 ^{ft}/hr Steam -
Flow Line Pressure 199 PSI - Temperature
out of Separators - 404°K - Control Valves - 1K5-9
3" and 8" Valves open 99% - 1K8-10 Fast Log -
3" Valve open 35% - 8" Valve open 16% - OHC #13
Down for Painting - Plans are to shut off
1K5-3 Tonight to cut out section of Production
Line to analyze Leaking Point by Experts

Weather Good

Submitted by Lin Taha

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Mar. 2, 1994

Well No. Powena Pump Contractor SGO

DESCRIPTION OF ACTIVITIES

At 10:15 Am. Running 6 Units - Producing - 10 m.w.
Net - Flow Rate 210,000 #/hr steam - Flow Line
Pressure 201 PSI - Temperature out of Separator -
396°F. Control Valve - KS-9 3" Valve Open 62%
8" Valve Open 24% - KS-10 - First Leg - 3" Valve
Open 35% - 8" Valve Open 60% - ORE #11, #15, #24
Off Grid - ORE #13 Away for Painting -
Mechanical Contractor still working on Repairing
Leak on Retention Line at KS-4. At 12:00
Midnight - Brought Output Down to 10 m.w. to Isolate
KS-4 to do Repairs. At 2:00 P.M. - BRINGING UP
Power to full production. (Running 7 units on the Grid
with 20 m.w. Net out - Flow Rate of 365,000 #/hr Steam)

Weather Clear

Submitted by Jim Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

MAR 1, 1994

Well No. POWER PLANTS

Contractor PGU

DESCRIPTION OF ACTIVITIES

At 11:05 Am. RUNNING 9 UNITS - PRODUCING
28.0 M.W. NIT - Flow Rate 450,000 #/HR Steam
Flow LINE PRESSURE 196 PS2 - TEMPERATURE OUT OF
SERPENTINE 403°F - CONTROL VALVES - KS-9 3" AND 8"
VALVES OPEN 99% - KS-10 LEAST CLOS - 3" VALVE
OPEN 35% - 8" VALVE OPEN 19% - ORC #13 DOWN FOR
PAINTING - YESTERDAY FOUND LEAKS IN THE REINJECTION
LINE TO KS-4 - (LEAK AT POP-OFF VALVE TO KS-4)
LEAKING FROM WELD JOINT - PGU IS ASSEMBLING HELCO
TO BE ABLE TO CUT PRODUCTION TO 10 M.W. AFTER PEAK
HOURS - TO BE ABLE TO DO REPAIRS - HOPEFULLY -
AFTER MID-NIGHT DOMESTIC -

Weather GOOD

Submitted by Jim Trueman

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Feb 28, 1994

Well No. Power Plants Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:10 AM. RUNNING 9 UNITS. PRODUCING
24.5 M.W. NET - Flow Rate 440,000 #/hr Steam -
Flow Line Pressure 194 PSI. Temperature out of
Separators - 403°F - Control Valve - 1LS-9 3" AND
8" VALVE OPEN 99% - 1LS-10 Fast Lag 3" VALVE
OPEN 35% - 8" VALVE OPEN 19% - OIL #13 NOW
FOR PAINTING

Weather Good

Submitted by Eiri Tamba

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Fri 25, 1994

Well No. POWER Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 AM. Running 9 units. Producing
25.0 M.W. MFT. Flow Rate 445,000 M³/hr Steam -
Flow Line Pressure 196 PSI - Temperature Out
of Separator 404°F - Control Valves - 1CS-9 - First Leg
3" MD 8" Valve Open 99% - Worst Leg 3" MD 8" Valve Open
100% - 1CS-10 First Leg 3" Valve Open 35% 8" Valve
Open 21%.

Weather RAIN

Submitted by Eric Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 24, 1994

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:00 AM. RUNNING 9 units - Producing 28.0
M.W. NRT - 1-10W RACK 445,000 #/HR Steam, Flow LINK
PRESSURE 196 PSI - Temperature out of Separators
403°F - Control VALVES - 1CS-9 3" AND 8" VALVES
OPEN 99% - 1CS-10 - FASE LAG 3" VALVE OPEN
35% - 8" VALVE OPEN 20% - OKC #13 DOWN FOR
PREHEATING

Weather Good

Submitted by Jim Oak

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 23, 1994

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:15 am. RUNNING 9 UNITS - PRODUCING 24 M.W.
NAT Flow Rate 440,000 #/hr. Steam - Flow Line
Pressure 194 PSI - Temperature Out of Separators
402°F - Control Units 1CS-9 - 3" AND 8" UNITS
Open 99% - 1CS-10 - Fast Leg. 3" Valve Open 35%
8" Valve Open 17% - DEC #13 Dash for Painting

Weather Good

Submitted by Eric Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

Drawn
Feb 22

DAILY REPORT

Feb 22, 1994

Well No. POWER PLANT Contractor PGU

DESCRIPTION OF ACTIVITIES

At 10:25 AM. RUNNING 9 UNITS - PRODUCING
24 M.W. MMS - Flow Rate - 445,000 #/HR. Steam - Flow
LINE PRESSURE 197 PSI - Temperature out of
SEPARATORS: 403°F - Control Valve - 1CS-9 3" AND 8"
VALVES OPEN 99% - 1CS-10 LEAST LG - 3" VALVE OPEN
35% - 8" VALVE OPEN 19% - OIL #13 DOWN FOR
PRODUCING

Weather Cloud

Submitted by Qui Tark

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Feb 18, 1994

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10.25 Am. Running 9 units. Producing
28.7 m.w. Net - Flow Rate of 445,000 lb/hr Steam.
Flow Line Pressure 195 psig - Temperature Out
of Separators 403°F - Control Valves - 1LS-9 3" and
8" Valves open 99% - 1LS-10 last leg - 3" valve
open 35% - 8" valve open 20%.

Weather Partly

Submitted by Jim Lamb

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Feb 17, 1994

Well No. Powern Plant. Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:15 hr. Running 9 units producing 25.2 m.w.
Mnt. Flow Rate 450,000 #/hr. Stem - Flow Line
Pressure 195 PSI - Drumpenner out of Separators
403°R - Control Valve - 1K8-9 3" and 8" VMW's open
99% - 1K9-10 last leg 3" VMW open 35% -
8" VMW open 20% - One #13 ready for priming

Weather Partly

Submitted by Eiri O'Brien

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 16, 1974

Well No. POWER PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

RUNNING 9 UNITS - PRODUCING 25 MW. NET-
Flow Rate of 445,000 GPH Steam - Flow Line
Pressure 195 PSI - Temperature Out of
Separator 403°F - Control Valve - KS-9 3" AND
8" VALVES OPEN 99% - KS-10 Fast LCB -
3" Valve open 35% 8" open 19% - OK #13 Down
FOR PMVENTG - CREW RUNNING Thread Log IN
KS-10 - MAINTAINING MORE SENSITIVE SPINNER RUN.

Weather Partly

Submitted by E. J. Tuck

DAILY REPORT

Well No. Powena Plant Contractor PLG

At 10:45 AM. RUNNING 9 units. Producing
24 m.w. MWT. Flow Rate of 445,000 #/hr Steam.
Line Line Pressure 195 psf- Temperature out
of Separators - 403°R- Control Valves. KS-9 3" and
8" valves open 99%- KS-10 Partially 3" open 35%
8" open 19%- OK #13 down for printing.

Weather *RAIN*

Submitted by  Eric Oake

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Fri 14, 1994

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:50 AM. RUNNING 9 LINES - PRODUCING
25 m.w. NRT - Flow Rate of 450,000 #/hr STEAM
Flow Line Pressure 196 PSI - Temperature out
of Separators - 404°F - Control Valves 1LS-9 - 3" and
8" valves open 99% - 1LS-10 Fast Lag - 3" valve
open 35% - 8" valve open 17% - OKC #13
Power for PUMPING

Weather RAINY

Submitted by [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Feb 11, 1994

Well No. Pouma Plume Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM RUNNING 9 UNITS - PRODUCING 23 M.W.
14M - 1 UNIT TRIPPED OFF LINE - TO BE BROUGHT BACK
UP ASAP - FLOW RATE - 400,000 #/HR STAIN - FLOW LINE
PRESSURE 713 PSI - TEMPERATURE OUT OF SEPARATORS
407°F - CONTROL VALVE KS-9 3" AND 8" OPEN 50% -
KS-10 KPS VALVE 3" OPEN 35% - 8" OPEN 15% -
OIL #13 DOWN FOR PAINTING - OIL #15 TRIPPED
VALVE - AS OF 12:00 NOON - BACK UP TO 24 M.W.
AND INCREASING PRODUCTION TO 25 M.W.

Weather RAINY

Submitted by Eric O'Brien

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 10, 1994

Well No. Poiana Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

At 10:05 AM. RUNNING 9 units. Producing -
24.8 m.w. Net - Flow Rate of 445,000 GPH. Steam -
Flow Line. Pressure 197 PSI - Temperature Out of
Separators 404°F - Control Valves 1CS-9 - 3" and 8"
Valves open 99% - 1CS-10 - 1" and 3" open 35% -
8" Valve open 17% - OIL #13 DOWN FOR FINISHING

Weather Cloudy

Submitted by Jim Cook

DAILY REPORT

Fri 9, 1994

Well No. Power Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:25 am. Running 8 units - Producing
23 m.w. Net - Flow Rate 420,000 #/hr Steam
Flow Line Pressure 199 psf - Temperature out
of Separators 403°F - Control Valves - KS-9 West
Leg - 3" open 59% - 8" open 56% - East Leg - 3" open 41% -
8" open 41% - KS-10 East Leg 3" open 35% -
8" open 32% - One #13 Down for Painting -
One #14 - being Brought Back on the Grid -
At 12:00 noon - Total Net Production up to 255 m.w.

Weather Partly

Submitted by Lin Taula

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 8, 1994

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:40 AM. RUNNING 9 units - Producing -
25 m.w. net - Flow Rate 445,000 #/HR Steam -
Flow Line Pressure 197 PSI - Temperature out
of Separators 404°F - Control Valves - 1K5-9 8"
and 8" valves open 99% - 1K5-10 Fast Leg -
3" valve open 35% - 8" valve open 24% -
OKC #13 DOWN FOR PRIMING.

Weather Partly

Submitted by Jim Tarkenton

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 7, 1994

Well No. Power Plants

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:55 AM. RUNNING 8 UNITS. PRODUCING
24.5 M.W. NET. Flow Rate - 410,000 #/hr Steam.
Flow Line Pressure 219 PSI - Temperature
OUT OF SUPERHEATERS - 411°F. Overall OILERS -
KS-3 3" AND 8" OPEN 55% - KS-10 10" LAG -
3" UNDER OPEN 95% - 8" UNDER OPEN 21% -
OIL #13 DOWN FOR PREHEATING - OIL #11 DOWN FOR
PREHEATING.

Weather RAIN

Submitted by Eric Baker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Feb 4, 1994

Well No. Powah Plant

Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:45 AM. RUNNING 8 UNIT - PRODUCING
24.5 m.w. NRT - Flow Rate 485,000 #/HR steam - Flow
Line Pressure 215 PSIG - Temperature out of
Separators 409°F - Control Vmws - 15-9 3' and 8"
Vmws open 52% - 15-10 Fast Log 3' open 30%
8" Vmws open - 24% - ORE #13 DOWN FOR
PAINTING - ORE #11 DOWN FOR MAINTENANCE.

Weather REIN

Submitted by Eric Tule

DAILY REPORT

FEB 3, 1974

Well No. POWELL PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:30 AM. Running 8 units producing
24.5 mm. NRT - Flow Rate 400,000 #/hr. Steam -
Flow Line Pressure 217 PSI - Temperature out
of Separators - 409°F. Control Valves - KS-9
3" and 5" valves open 53% - KS-10 East Loc -
3" open 78% - 8" open 23% - ORE #13 Down
for maintenance - ORE #11 Down for maintenance -
Yesterday calibrated gauges and annunciators -
(lower pressures -)

Weather Partly

Submitted by Jim Gable

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 2, 1994

Well No. Powah Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:55 Am RUNNING 8 UNITS- PRODUCING
23.5 m.w. NKT- Flow Rate 400,000 #/hr Steam-
Flow Line Pressure 213 PSI- Temperature out of
SEPARATORS- 439°K- Control Valves- KS-9 3" MAN
8" VALVES OPEN 48% - KS-10- Fast Leg- 3" VALVE
OPEN 25% - 8" VALVE OPEN 21% - OIL #11 DOWN
FOR REPAIRS- OIL #13 DOWN FOR PRINTING

Weather Good

Submitted by Eric Tush

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

FEB 1, 1994

Well No. Power Plant Contractor PLV

DESCRIPTION OF ACTIVITIES

At 10:30 A.M. RUNNING 9 UNITS - PRODUCING - 24.5 MGD
NAT - Flow Rate of 445,000 #/hr Steam Flow Line
Pressure 192 PSE - Temperature Out of Separator
434°F - Control Valves - 1CS-9 3" AND 8" OPEN 99%
1CS-10 - Fast Log 3" Valve open 25% 8" Valve open 20%
One #13 DOWN FOR REPAIRING

Weather Good

Submitted by Eric Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 31, 1994

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:05 A.M. RUNNING 9 units. Producing
24.5 m.w. NRP - Flow Rate 440,000 #/hr Steam
Flow Line Pressure 198 PSI - Temperature out
of Separators 455°F - Control Valves - 1/2 - 9
3" and 8" valves open 99% - 1/2 - 10 East Leg -
3" open 75% - 8" open 21% - One #13 Down
For Painting

Weather Good

Submitted by Lin Tanaka

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 28, 1994

Well No. Powern. Plant

Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:05 AM RUNNING 9 UNITS PRODUCING -
22.5 MW NET - Flow Rate 440,000 #/HR STEAM -
Flow Line Pressure 192 PSI - Temperature out of
Separators 432°F - Control Valves K8-9 3" AND
8" VALVES OPEN 98% - K3-10 Fast CLOS - 3" VALVE
OPEN 70% 8" VALVE OPEN 8% - OK, #12 NOW
FOR PRINTING - HIGHEST 1/2S RAMPINGS DURING
YESTERDAY'S INCIDENT - At 9:30 P.M. AT STATION
D AT 42 PSID - SPIKE - Hourly Average PROBABLY
below Permit Levels

Weather Good

Submitted by Eini Tulea

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 27, 1994

Well No. POWELL PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 5:30 am. Received call of LEAKING REINFORCING
LINE - Between KS-1A ROAD CROSSING AND SKIMMER
ROAD CROSSING - Broken down plant to 13 min. not
out and inspection line on a line with
KS-4 with open - CAUSE HOLE FOR WINDOW to
Shut down to no repairs. At 8:00 am. Shut
down plant and started repair work - During
this leak - Stationary station recorded highest
readings of 1.5 P.P.B. - At South East station - Rising
monitors had 0 - readings - Re-started at approx 4:00 am.
Back on line at approx 5:00 am. with KS-5. At
7:30 am. Re-started KS-10 and bringing plant
back up to capacity.

Weather Clear

Submitted by Jim Cullen

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 27, 1994

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10.30 AM RUNNING 9 UNITS PRODUCING.
25 MW NET - Flow Rate 440,000 #/hr Steam - Flow
Line Pressure 191 PSI - Temperature Out of
Separators - 434° - Condensate Valves - 125-9 3" and 8" Valves
OPEN 99% - 125-10 - 3" Valves open 35° - 8" Valves
OPEN 14° - Occ #12 Down for Painting.

Weather Good

Submitted by Jim Gault

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 26, 1994

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 Am. Running 9 units - Producing
25 m.w. MWT. Flow Rate of 440,000 #/hr steam.
Flow Line Pressure 193 PSI. Temperature out of
Separators - 434°F. Control Valves - KS-9 3" and 8"
Open 99% - KS-10 3" valves open 37% - 8" valves
Open 15% - OK #11 down.

Weather RAIN

Submitted by Eric Smith

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Jan 25, 1994

Well No. Power Plants Contractor PLO

DESCRIPTION OF ACTIVITIES

At 10:55 AM RUNNING 8 UNITS - PRODUCING
23.5 M.W. NET WITH 9TH UNIT BEING BROUGHT BACK ON
GRID - FLOW RATE OF 475,000 #/HR STEAM - FLOW
LINE PRESSURE 208 PSI - TEMPERATURE OUT OF
SEPARATORS - 439°F - CONTROL VALVES KS-9 3" AND 8"
VALVES OPEN 57% - KS-10 3" VALVES OPEN 35% -
8" VALVES OPEN 12% - OEC #23 DOWN FOR
MAINTENANCE - OEC #13 COMING BACK ON

Weather Rainy

Submitted by Eli Tamba

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Jan 24, 1994

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:15 Am. Running 9 units. Producing
24.5 M.W. NET. Flow Rate of 430,000 #/hr
Steam - Flow Line Pressure 198 PSI - Temperature
Out of Separators 436°F - Control Values -
KS-9 3" and 8" valves open 84°F - KS-10 3" valves
open 35°F - 8" valves open 16°F - ORE #11 Down
for maintenance.

Weather Rainy

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 21, 1994

Well No. POWER PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:40 AM RUNNING 9 UNITS - PRODUCING
25 M.W. NET - Flow Rate of 445,000 #/HR Steam -
Flow Line Pressure 197 PSI - Temperature out of
SEPARATORS - 435°F - Control Valves KS-9 3" and 8"
Valves open 99% - KS-10 3" Valves open 35% - 8"
Valves open 11% - OIL #12 DOWN FOR PRINTING.

Weather Partly

Submitted by Eini Gumb

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 20, 1994

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 9 UNITS - PRODUCING 25.5
M.W. NET. Flow Rate of 445,000 K/Hr Steam -
Flow Line Pressure 196 psi - Temperature Out
of Separators 435°F - Control Valves - K5-9
3" and 8" Valves open 99% - K5-10 3" Valves open
35% - 8" Valves open 11% - One #12 Pump
for PREHEATING

Weather Partly

Submitted by Lin Onda

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Jan 19, 1994

Well No. POWER PLANT Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10.30 AM. RUNNING 9 UNITS - PRODUCING
24.5 m.w. NET - Flow Rate of 430,000 #/HR Steam -
Flow Line Pressure 198 PSI - Temperature out of
SEPARATOR 435°F - CONTROL VALVE KS-9 8" AND 3" VALVES
OPEN 85% - KS-10 3" VALVES 35% - 8" VALVES 12% -
ORC #12 DOWN FOR PUMPING -

Weather RAIN

Submitted by Jim Smith

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

DAY 18, 1954

Well No. Power Plant -

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:50 Am RUNNING 9 units. PRODUCING -
24.5 m.w. Net - Flow Rate of 430,000 #/hr Steam
Flow Line Pressure 205 PSI - Temperature out of
Separators - 438°K - 8" and 3" Control Valves -
1C5-9 - open 3" and 8" - 80% - 1C5-10 - 3" open
352 - 8" - open 100% - Both Wells on Common
Manifold to Both Separators - One #12 Down for
Repairing - on Day 9, 1954. Need to Shut Down
Plant and Shut in Wells to do Repair to
NCG Manifold - Previous Problem of Cavitation to
Walls of Tubing. Wells to then do Shut Work - Decision
made to Shut Down and Replace Bad Section and
Also change to 45° Inlet to ALLVINTA CAVITATION
Problems - No Problems with Wells in Shut in.
As well as Re-start -
Note: Next scheduled Shut Down Approx Feb 28, 1954
to ADD IN ADDITIONAL BRINE LINE - 6" LINE -

Weather RAIN

Submitted by Jim Tark

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 6, 1994

Well No. Pouan Plains Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:50 AM. RUNNING 9 UNITS - PRODUCING
24.5 M.W. - FLOW RATE OF 445,000 GPM STATION
FLOW LINE PRESSURE 194 PSE - TEMPERATURE OUT OF
SEPARATORS 435°F - 8" AND 3" CONTROL - KS-9
OPEN 99% - KS-10 OPEN 100% - OKE #12 DOWRY
FOR PRINTING

Weather Cloudy

Submitted by Eric Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 5, 1994

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:25 AM. RUNNING 9 UNITS - PRODUCING
25 MW. NET - Flow Rate 445,000 #/HR Steam - Flow
LINE Pressure 197 PSI - Temperature out of
SEPARATORS 436°F - 8" AND 3" CONDENSER -
KS-9 OPEN 99% - KS-10 OPEN 100% - OIL #12
DOWN FOR PREHEATING

Weather Good

Submitted by Jim Galt

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

JAN 4, 1994

Well No. POWER PLANT

Contractor PLV

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 9 UNITS PRODUCING
24.5 M.W. NET. FLOW RATE 440,000 #/HR STEAM -
FLOW LINE PRESSURE 199 PSI - TEMPERATURE OUT
OF SEPARATORS 436°F - 8" AND 3" COND. UNITS
KS-9 OPEN 98% - KS-10 OPEN 100% - ORC# 12
DOWN FOR PREHEATING

Weather Good

Submitted by Jim Gaskin

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 3, 1984

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:50 AM RUNNING 9 units PRODUCING 24
M.W. NRT - Flow Rate of 440,000 #/HR Steam - Flow
LINE PRESSURE 197 PSI - TEMPERATURE OUT OF
SEPARATORS 436°F - 8" AND 3" CONTROL VALVES -
1K59 OPEN 99% - 1K510 OPEN 100% - ONE #12
DOWN FOR PAINTING

Weather Good

Submitted by Eric Tule

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 30, 1993

Well No. Powah Plant Contractor PLG

DESCRIPTION OF ACTIVITIES

At 10:20 am. Running 9 units - Producing
25 m.w. NPS - Flow Rate of 450,000 #/hr steam
Flow Line Pressure 159 PSZ - Temperature out
of Separator 436°F - 8" AND 3" Control Valves
125-9 open 66% - 125-10 open 100% - Occ #12
Down for PMMENG

Weather Cloudy

Submitted by Eric Tule

OFFICE OF THE DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 29, 1983

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:15 AM. RUNNING 9 units. Producing
24.5 m.w. MWT. Flow Rate of 445,000 #/hr. Steam.
Flow Line Pressure 199 PS2. Temperature Out of
Separators 436°K. 8" and 3" Control Valves -
KS-9 open 62% - KS-10 open 100% - One #12
Down for Pressure.

Weather Good

Submitted by Eric Tahn

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 28, 1993

Well No. Powern Plant

Contractor PLD

DESCRIPTION OF ACTIVITIES

At 10:05 Am. Running 9 units. Producing
24.5 m.w. net. Flow Rate of 445,000 #/hr. Steam
Flow Line Pressure 200 PSI - Temperature out of
Separators 437°F - 8" and 3" Control Valves -
KS-9 open 57% - KS-10 open 100% - One #12
Newer fire printing.

Weather Good

Submitted by Jim Galt

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 23, 1993

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 8:58 AM. RUNNING 7 UNITS - 2 UNITS ON
Heat Recovery - One #12 Down for Painting -
Producing 20 M.W. MWT. Flow Rate of 350,000 GPM Stage.
Flow Line Pressure 200 PSI. Temperature out of
Separators 432°F - 8" and 3" Control Valves -
KS-9 open 38% - KS-10 open 40% - Trying Procedure
to increase water from KS-10 with increase
flow and set up pumps to handle more water to
Process water from KS-10 with increase flow

Weather Rain

Submitted by Jim Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 22, 1993

Well No. Power Plants

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:25 Am. Running 9 units producing
25 m.w. net - Flow Rate of 450,000 #/hr Steam -
Flow Line Pressure 199 PSIG - Temperature out
of Separators 437°F - 8" and 3" Control Valves -
125-9 open 65% - 125-10 - open 100% - ORC #12
Down for painting -

Weather Cold

Submitted by Jim Tarkenton

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 21, 1993

Well No. Power Plant.

Contractor PCV

DESCRIPTION OF ACTIVITIES

At 10:55 AM. - RUNNING 9 UNITS - PRODUCING -
24.5 M.W. NET - FLOW RATE OF 450,000 #/HR
STEAM - FLOW LINE PRESSURE 197 PSI - TEMPERATURE
OUT OF SEPARATOR 437°F - 8" AND 3" CONTROL
VALVES - K5-9 - OPEN 58% - K5-10 OPEN 100% -
ORC #12 DOWN FOR MAINTENANCE -

Weather GOOD

Submitted by Jim Oake

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 20, 1993

Well No. Powah Plumer Contractor PCV

DESCRIPTION OF ACTIVITIES

At 10.00 AM - RUNNING 9 UNITS - PRODUCING
25.5 M.W. NET - Flow RATE OF 450,000 #/HR STEAM
Flow LINE PRESSURE 200 PSIG - TEMPERATURE OUT OF
SEPARATORS 437°F - 8" AND 3" CONTROL VALVES -
KS-9 OPEN 60% - KS-10 OPEN 100% - OK
#12 DOWN FOR PAINTING

Weather RAINY

Submitted by Lin Tanaka

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

ORC 17, 1993

Well No. POWER PLANT

Contractor PLU

DESCRIPTION OF ACTIVITIES

AT 10:25 AM RUNNING 9 UNITS - PRODUCING
25.5 M.W. NET - FLOW RATE OF 450,000 GPHR STEAM
FLOW LINE PRESSURE 200 PSI - TEMPERATURE OUT OF
SEPARATORS - 437°F - 8" AND 3" CONTROL VALVES - ON KE-9
OPEN 49% - 125 TO OPEN 100% - ORC #12 DOWTY
FOR PRINTING

Weather RYEN

Submitted by Eric Tander

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 16, 1993

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:30 AM. RUNNING 9 units. PRODUCING 25 MW.
Net - Flow rate of 445,000 ³/hr steam - Flow Line Pressure
200°F - Temperature out of Separators. 437°F -
8" and 3" Control Valves - KS-9 open 55% - KS-10
open 100% - DRG #12 Down for PMINSING.

Weather Partly

Submitted by Jim Thacker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 15, 1992

Well No. Powah Pinaro Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:25 AM RUNNING 9 UNITS - PRODUCING
75 M.W. NET - Flow Rate of 450,000 #/HR Steam -
Flow Line Pressure 201 PSI - Temperature out of
SEPARATORS - 438°F - 8" AND 3" Cooled Unwired -
KS-9 OPEN (5") 66% - KS-10 OPEN (5") 50% - ONE
24 DUTY FOR REPAIRS

Weather Good

Submitted by Eini Taita

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 14, 1993

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:45 Am. RUNNING 9 UNITS - PRODUCING 25.5
M.W. MWT - Flow Rate of 445,000 #/hr Steam -
Flow Line Pressure 203 PSE - Temperature out of
Superheaters - 438°F - 8" and 3" Control Valves - ONKS-9
OPEN 69% - 1LS-10 OPEN 100% (3") - ONE #11
DOWN FOR PREHEATING -

Weather Rainy

Submitted by Eini Oshiro

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Date Dec. 13, 1983

Well No. Power Plant

Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:05 Am. Running 9 units - Producing 25.5
M.W. Net - Flow Rate of 440,000 #/hr Steam - Flow
Line Pressure 206 PSI - Temperature Out of Superheaters
439°F. 8" AND 3" Control Valves on KS-9
Open 99% - KS-10 Open 100% - One #11 down
for repairing.

Weather Good

Submitted by Eve Taha

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 10, 1993

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 AM RUNNING 9 UNITS - PRODUCING 24 M.W.
Net - Flow Rate of 420,000 #/HR Steam - Flow LINE
Pressure 211 PSE - Temperature out of Separators
440°f. 8 AND 3" CUMUL. UNITS ON KS-9 OPER
49% - KS-10 OPER 75% - OIL #11 DOWN FOR
Painting -

Weather Good

Submitted by Eric T. [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 9, 1983

Well No. Pouan Pitsas Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:25 AM RUNNING 9 UNITS PRODUCING 25
M.W. NET - FLOW RATE OF 440,000 #/HR STEAM
FLOW LINE PRESSURE 205 PSI - TEMPERATURE OUT OF
SEPARATORS 439°F - 8" AND 3" CONTROL VALVES
ON KS-9 OPEN 55% - ON KS-10 OPEN 70% -
PRODUCTION UNITS ON SEPARATE SEPARATORS AT THIS
TIME ONE #11 DOWN FOR PAINTING.

Weather Good

Submitted by E. Oak

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 8, 1983

Well No. POWELL PLANT Contractor PEO

DESCRIPTION OF ACTIVITIES

At 10:50 AM. RUNNING 9 WELLS PRODUCING
25 M.W. MWT - Flow Rate of 435,000 #/HR STAIN
FLOW LINE PRESSURE 206 PSE - TRANSMISSION OUT OF
SEPARATORS - 438°F - 8" AND 3" CONTROL VALVES
OPEN 23% to 49% - OIL #11 DOWN FOR PRINTING
CRAW IN PROCESS OF SWITCHING TO INDIVIDUAL
SEPARATORS SINCE PRODUCTION WILL FOR A
4 HOUR PERIODS TO GET DATA

Weather DRY

Submitted by Jim Cook

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec. 7, 1993

Well No. Pouma Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 1:15 P.M. - Running 9 units - Producing 25
m.w. net. Flow Rate of 435,000 #/hr Steam -
Flow Line Pressure 205 PSF - Temperature out
of Separators - 439°F - 8" and 3" Control Valves
Open 15% to 47% - One #11 down for painting
This morning at approx 8:00 AM - Experience a
shut down - Due to too much BUNA and the
system could not process the liquid causing
the shut down of the OEC - Shut for wells
immediately and processed the liquid then
Restarted OEC's - No Release of Any KERO

Weather Partly

Submitted by E. C. Cook

DAILY REPORT

Well No. Powen Placer Contractor PLC

9:25 AM. RUNNING 9 units - Producing 28.5
 M.W. NAT - Flow Rate of 440,000 #/hr Steam - Flow
 Line Pressure - 205 PSI - Temperature out of
 Separators. 439°F - 8" AND 3" Control valves open
 30% to 72% - OK #11 DOWN FOR PAINTING -

Weather 14/11/14

Submitted by Lin Oath

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

*Received
12/3/93*

DAILY REPORT

Dec 3, 1993

Well No. Poway Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:30 Am. Running 9 units - Producing
76 m.w. net - Flow Rate of 440,000 #/hr Steam
Flow Line Pressure 212 PSI - Temperature out
of Separators - 442°F - 8" and 3" Control Valves
Open 30% to 68% - One #1 Down.

Weather RAINY

Submitted by *[Signature]*

DAILY REPORT

Well No. Poum Ploxt Contractor PCO

At 11:30 AM. RUNNING 9 units. PRODUCING 25.5 m.w.
Net - Flow Rate of 450,000 #/hr Steam - Flow
Line Pressure - 216 PSI - Temperature out of
Separators - 444°F - 8" AND 3" Control Valves
Open 30% to 71% - one #11 Down.

Weather *Good*

Submitted by

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Dec 1, 1993

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 12:50 P.m. Running 9 units producing
76 m.w. NRT - Flow Rate of 445,000 #/hr steam
Flow Line Pressure 215 PSI - Temperature out
of Separators - 442°F - 8" and 3" Control Valves
Open 30% to 64% - OK #11 Noisy

Weather Partly

Submitted by Eric Salas

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 30, 1993

Well No. Powah Plant Contractor PGU

DESCRIPTION OF ACTIVITIES

At 11:30 AM. RUNNING 9 UNITS PRODUCING 25.5 M.W.
NAT- FLOW RATE OF 435,000 #/HR STRAM. - FLOW LINE
PRESSURE 215 PSE. - TEMPERATURE OUT OF SEPARATORS -
442°F. - 8" AND 3" CONTROL VALVES OPEN 28% to 63%
ONE #11 DOWN FOR MAINTENANCE.

Weather RAIN

Submitted by Eric Oake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 29, 1983

Well No. Powen Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 11:15 AM. RUNNING 9 UNITS. PRODUCING 25.5 M.W. NET - Flow Rate of 435,000 #/HR - Flow Line Pressure 215 PSI - Temperature out of Separators 443°F. 8" AND 3" Control Valves OPEN 30% to 58% - ONE #11 DOWN FOR PAINTING - ON Saturday - Plant was shut down due to a problem with the NCG manifold - The stainless steel pipe (S440) at a point of high turbulence - A patch was welded over leaking section - During welding operation tower pipe wall very thin due to turbulence - After repairs and testing - Plant restarted and back on power grid at 7:30 PM - Highest H₂S readings outside registered at 4 PPM spike - Plans are to order S440 S/S pipe and also redesign manifold to prevent turbulence corrosion.

Weather Clear

Submitted by Eric Dahl

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 26, 1993

Well No. Power Plant - Contractor PLV

DESCRIPTION OF ACTIVITIES

At 11:00 am RUNNING 9 WELLS - PRODUCING 26 MW
Net - Flow Rate of 450,000 #/hr Steam - Flow Line
Pressure 216 PSI - Temperature out of Separators
443°F - 8" And 3" Control Valves Open 32% to
84% - One #11 Down for PENDING - Each Producing
Well on Separate Separators at this time.

Weather Good

Submitted by E. J. Tule

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

NOVEMBER 24, 1993

Well No. POWER PLANT - Contractor PGO

DESCRIPTION OF ACTIVITIES

At 11:10 AM RUNNING 9 UNITS - PRODUCING 25.5
M.W. NAT. FLOW RATE OF 440,000 #/HR STEAM -
Flow Line Pressure 215 PSI - Temperature Out of
SEPARATORS - 443° F - 8 AND 3 CONTROL VALVES OPEN
32% to 69% - OKE #11 DOWRY FOR PREHEATING -
Crew ARE ATTEMPTING to SWITCH to INDIVIDUAL
SEPARATION to EACH Well -

Weather DRY

Submitted by Don Tuck

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 23, 1993

Well No. POWELL PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:45 Am. RUNNING 9 Units PRODUCING
26 M.W. NET - Flow Rate of 440,000 G/HR STEAM
Flow Line Pressure - 215 PSI - Temperature out of
Separators 443°F - 8" AND 3" Control Valves open
32% to 69% - ONE #11 DOWN FOR PENDING,

Weather RAIN

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 22, 1983

Well No. Pouma Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 11:15 AM. Running 9 units - Producing
26 m.w. net - Flow Rate of 440,000 #/hr steam -
Flow Line Pressure 214 PSI - Temperature out of
Separators 442°F - 8" and 3" control valves
open 32% to 63% - OAC #11 down for painting

Weather Good

Submitted by E. Tarkenton

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

NOVEMBER 19, 1993

Well No. POWER PLANT Contractor PLO

DESCRIPTION OF ACTIVITIES

At 11:10 AM. RUNNING 9 UNITS. PRODUCING 25.5 m.w.
NRE - Flow Rate of 450,000 GPH. Steam - Flow Line
Pressure 216 PSI - Temperature out of Separators
444°F. 8 AM 3 CONTROL VALVES OPEN 30% to 72%
One #11 DOWN FOR MAINTENANCE

Weather RAIN

Submitted by Jim Oak

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 18, 1993

Well No. Pouma Plains Contractor PLD

DESCRIPTION OF ACTIVITIES

At 10:15 Am. Running 9 units - Producing
25.5 m.w. MWT - Flow Rate of 445,000 M/GH Stream -
Flow Line Pressure 215 PSI - Temperature out of
Separators - 443°F - 8" AND 3" Control Valves Open
30% to 64% - OK All Down For Pumping.

Weather Rainy

Submitted by Jim Carlin

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 17, 1993

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:50 AM. RUNNING 9 UNITS. PRODUCTION 25.5 MW.
NET - Plant Rate of 435,000 #/hr Steam - Plant Line
Pressure - 214-PSI - Disposition out of Steamlines.
442°F. 8" AND 3" Control Valves open 30% to 60%
Dec #11 Down for PMING

Weather Partly

Submitted by Eric Tule

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 16, 1993

Well No. POWELL PLANT Contractor PG&I

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 9 UNITS - PRODUCING 25.5 M.W.
NET - FLOW RATE OF 450,000 #/HR STEAM - FLOW LINE PRESSURE
716 PSI - TEMPERATURE OUT OF SUPERHEATERS - 444° - 8" AND
3" CONTROL VALVES OPEN 30% TO 60% - OIL #11
DOWN FOR PREHEATING

Weather Good

Submitted by Eui Oanh

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 15, 1993

Well No. Powah Plant Contractor PLO

DESCRIPTION OF ACTIVITIES

At 11:00 AM Running 9 units. Producing 25.5 MW net
Flow rate of 450,000 gpm. Steam - Flow line pressure
715 PSI - Temperature out of separators - 444°F - 8" and
3" control valves open 30% to 50% - One #11
down for pressure.

Weather Good

Submitted by Jim Carter

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

NOVEMBER 12, 1993

Well No. POWER PLANT Contractor PLS

DESCRIPTION OF ACTIVITIES

At 10:20 AM. RUNNING 9 UNITS - PRODUCING 25.5 M.W.
Flow Rate of 445,000 GPH. STATION - FLOW LINE PRESSURE
215 PSI - TEMPERATURE OUT OF SEPARATORS - 443°F.
8" AND 3" CONTROL VALVES ON L5-9 AND L5-10 OPEN
41% - OIL #11 DOWN FOR PAINTING - L5-9
BROUGHT BACK ON YESTERDAY - AT FULL FLOW AT 5:00 P.M.

Weather CLOUDY

Submitted by Carli Gosh

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

NOVEMBER 10, 1993

Well No. Poway Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:00 AM. RUNNING 9 UNITS - PRODUCING 25.5 M.W.
NAT - FLOW RATE OF 450,000 #/HR STEAM - FLOW GATE
PRESSURE 211 PSF - TEMPERATURE OUT OF SUPERHEATERS 441°K -
8" AND 3" CONTROL VALVES ON KS-10 OPEN 50% TO 99% -
OKC #11 DOWN FOR MAINTENANCE AND PAINTING -
UPSTREAMING WITHIN OPENING UP KS-9 - PLANT PREVIOUS TO
MUCH GAS TO HANDLER - NCG UNITS SHUT DOWN CAUSING
9 RUNNING UNITS TO SHUT DOWN - H.S. LEAKS FROM
STEEL SEALS ON TURBINE UNITS - IN CHECKING
DATA FROM STATIONARY STATION "D" IN LANIPUNA
GRADIENTS - THE HOURLY AVERAGE CALCULATED AT
18 PSB - BELOW VIOLATION LEVELS - NO PROBLEMS
DOWN AT WELLPRO "A" WITH KS-9 AND KS-10 WITHIN
WELLS WERE SHUT IN TO 50% - (KS-10) KS-9 WAS
SHUT IN AT MASTER VALVE - REMAINING GAS IN FLOW
LINE WAS PURGED THEN THE PLANT AFTER OPERATIONS
OF UNITS UP TO SPAN AND PROCESSOR THEN NCG UNITS -

Weather Good

Submitted by Eric Tule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 8, 1993

Well No. Poum Plains Contractor PGU

DESCRIPTION OF ACTIVITIES

At 7:45 AM RUNNING 8 UNITS. PRODUCING 23.5 M.W.
NET. FLOW RATE OF 390,000 #/HR STEAM - FLOW LINE
PRESSURE 215 PSF - TEMPERATURE OUT OF SEPARATORS
441°F - 8" AND 3" CONTROL VALVES ON KS-10
OPEN 45% to 47% - OIL #15 DOWN - Lost Communication
WITH CENTRAL CONTROL - WORKING ON PROBLEM - OIL #25
CHANGING OUT TURBINE BEARINGS AND READY TO COME BACK
ON THE GRID.

Weather Good

Submitted by Eric Tunde

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 5, 1993

Well No. Pouan Pumer Contractor Plu

DESCRIPTION OF ACTIVITIES

At 11:00 AM RUNNING 9 UNITS - PRODUCING 25 M.W.
Nat- Flow Rate of 445,000 #/HR Steam - Flow Line
Pressure 215 PSI - Temperature Out of Separators
443°F - 8" AND 3" CONTROL VALVES OPEN 45% to 60%
One #25 DOWN FOR PUMPING

Weather Good

Submitted by Eric Taylor

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

NOVEMBER 4, 1993

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10.15 AM. RUNNING 9 UNITS PRODUCING 25.5 MW
NET - FLOW RATE OF 450,000 #/HR STEAM - FLOW LINE
PRESSURE 215 PSIG - TEMPERATURE OUT OF SEPARATORS
444°F. 8" AND 3" CONTROL VALVES ON LES-10 OPEN
55% TO 68% - OIL #25 DOWN FOR PRINTING.

Weather GOOD

Submitted by E. Gault

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 3, 1993

Well No. Power Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 10:45 Am. Running 9 units. Producing 25.5
MW Net. Flow Rate of 455,000 #/hr steam.
Flow Line Pressure 215 PSI - Temperature out of
Stacks - 443°F - 8 and 3" control valves on
KS-10 open 45-67% - One #25 down for painting.

Weather Rainy

Submitted by Eric Tahn

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 2, 1983

Well No. Powah PUNA Contractor PCO

DESCRIPTION OF ACTIVITIES

At 11:05 AM Running 9 units - Producing 25.5 m.w
Net - Flow Rate of 455,000 #/HR Steam - Flow Unit
Pressure 215 PSI - Temperature out of Steamers
444°F - 8" AND 3" control valves on K5-10 open
45% to 63% - One #25 down for painting

Weather Good

Submitted by Eric Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

November 1, 1963

Well No. Powah Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 10.45 AM. RUNNING 7 UNITS PRODUCING 14 M.W.
Net - Flow Rate of 250,000 G/Hr Steam - Flow Line
Pressure - 215 PSI - Temperature out of Separators
443°F - 8" and 3" Control Valves on 125-10- OPEN
20% to 30% - OK, #25 DOWN FOR PRIMING - The
Two (2) Remaining Units Waiting for Completion
of Work on 125-4 FOR Pressure Test - For more
Information Capable to Step up Production.

Weather Good

Submitted by Jim Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 22, 1993

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:45 Am. Running 9 units - Producing -
26 m.w. net - Flow Rate of 460,000 #/HR Steam
Flow Line Pressure 215 PSI - Temperature out of
Separators - 444°F - 8" and 3" Control Valves on
KS-10 - Open 50% 62% - One #1 down for painting.

03000

UNOCAL 76

INCLUDES APPLICABLE FEDERAL, STATE AND LOCAL TAXES ON MOTOR VEHICLE FUEL, PAYMENT OF WHICH MAY BE ASSUMED BY UNOCAL.

DATE 102193 828328

LOANS 76
75155440
HILO HI

PRODUCT	QTY.	PRICE	AMOUNT
UNLEADED LEADED DIESEL			
GRADE 92	13.4	2.04	27.50
SUPER PREMIUM HI-PERF.			
GRADE 10W40	1	2.50	2.50
SERVICE ORDER NO.			
TOTAL		30.00	

SALES TAX

VEHICLE LICENSE NO. 4337 STATE HI SVC. BY HIR.D

SIGNATURE OF BUYER E. J. Tarkenton

AUTHORIZATION NO. DRIVER'S LICENSE NO.

ORIGINAL INVOICE

FORM 3-2K95 (REV. 4-88) PRINTED IN U.S.A.

Weather Good

Submitted by E. J. Tarkenton

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 21, 1993

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:15 AM. RUNNING 9 units - Producing 25 m.w.
Net - Flow Rate of 450,000 H/Hr Steam - Flow
Line Pressure 215 PSE - Temperature out of
Separators - 443°F - 8" AND 3" Control Valves on
1LS-10 OPEN 45% to 57% - DRG #22 DOWN FOR
PAINTING

Weather Good

Submitted by Elin Park

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct 20, 1993

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:00 AM RUNNING 9 WITS - PRODUCING 25.5
M.W. ART - FLOW RATE OF 450,000 ^{ft}/HR STEAM
FLOW LINE PRESSURE 215 PSIG - TEMPERATURE OUT
OF SEPARATORS 443°F - 8" AND 3" CONTROL VALVES
ON KS-10 OPEN 45% - 57% - ONE #22
DOWN FOR PAINTING

Weather Good

Submitted by E. Gable

20A 19, 1953

Well No. Power Plant Contractor PLC

At 11:15 AM, RUNNING 9 UNITS - PRODUCING -
25.5 m.w. net. Flow Rate of 450,000 #/hr - Flow
Line Pressure 215 PSE - Temperature Out of Separator
444°F. 8" AND 3" Control Valves ON KS-10 OPEN
50% to 50% - One #22 Down for Piping.

Weather Clear

Submitted by Lin Tran

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 18, 1993

Well No. POWELL PLANT Contractor PCV

DESCRIPTION OF ACTIVITIES

At 11.50 AM. RUNNING 9 UNITS - PRODUCING 28.5 MW.
NRT- FLOW RATE of 450,000 #/hr steam - FLOW
LINE PRESSURE 217 PSIG. - Temperature out of
Superheaters 444°F - Control valves on 1LS-10 (8" AND
3") OPEN 50% to 55% - OKC #22 DOWN FOR
MAINTENANCE

Weather Good

Submitted by Eini Gosh

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 6, 1993

Well No. Poway Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:15 AM RUNNING 9 UNITS - PRODUCING -
25.5 m.w. net - Flow Rate of 460,000 #/hr Steam -
Flow Line Pressure - 214 psig - Temperature out of
SEPARATORS - 444°F - 8" AND 3" Control Valves on
KS-10 - East Side - 38% and 52% - West Side -
71% both - One #15 Down for PAINTING

Weather Good

Submitted by Eric Smith

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 5, 1993

Well No. Power Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:45 AM. RUNNING 10 UNITS - PRODUCING 26.5
M.W. NET - 29 M.W. GROSS - Flow Rate of 425,000 #/HR
(LOW RUNNING - NEED to CALIBRATE ANNUNCIATOR - RUNNING
SHOULD BE closer to 500,000 #/HR) - Flow Line Pressure
204 PSI - Temperature Out of Separators - 441°K -
8" AND 3" CONTROL VALVES ON 1-5-10 OPEN 99% -

Weather Good

Submitted by Eric Taula

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 4, 1993

Well No. Power Plants Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:25 AM, RUNNING 9 UNITS - PRODUCING 25.5
M.W. NET - FLOW RATE OF 405,000 #/HR STEAM -
FLOW LINE PRESSURE 216 PSI - TEMPERATURE OUT OF
SEPARATORS - 445°F - FLOW FROM KS-10 ONLY -
CONTROL VALVES - FIRST LEG 3" AND 8" VALVES OPEN
45% - LAST LEG 3" AND 8" VALVES OPEN 50%
ONE #23 DOWN FOR SERVICING -

Weather Good

Submitted by E. J. [Signature]

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 2, 1993

Well No. Powah Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:30 Am. RUNNING 8 UNITS - PRODUCING.
22 MW NET - Flow Rate of 350,000 #/HR Steam.
Flow Line Pressure 206 PSI - Temperature out
of separators. 441°F. 8" AND 3" Control Valves
on LS-10. Open 442°F. ORC #15 Down for
Painting - ORC #23 Waiting for more steam -

Weather Good

Submitted by E. J. Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Oct. 1, 1993

Well No. Powena Plains Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1000 Am. Running 9 units - Producing 28.5
M.W. MFT - Flow Rate of 395,000 #/HR. Steam - Flow
Line Pressure - 214 PSI - Temperature out of Separators
444°F - One #15 Down for Painting -
Both East and West Legs on 125-10 Operating -
8" and 3" Control Valves open at 89%

Weather Cloudy

Submitted by E. G. Galt

DAILY REPORT

Sept 30, 1993

Well No. Pouapele Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:10 AM - RUNNING 9 LINES - PRODUCING 22 m.w. MWT - FLOW RATE
OF 365,000 #/HR STATION - FLOW LINE PRESSURE 206 PSI - TEMPERATURE
OUT OF SEPARATORS - 438°F - 8" AND 3" CONTROL VALVES ON THE WEST
LEG OF KS-10 OPEN AT 99% - (EAST LEG SHUT IN - KS-9 SHUT IN)
At 8:02 AM THIS MORNING - BURST DIAPHRAGM ON EAST LEG OF
KS TO BURST AND POP OFF VALVE LAY GO THRU (3) SPOTS OF RELEASE
INTO THE RELEASE FACILITY ON WELL PAD "A" - THE POP-OFF RESULTED
FROM A PRESSURE BUILD UP IN THE LINE - WHEN SOMEONE
CLOSED THE VALVE UP-STREAM OF THE POP OFF VALVE NEAR THE
SEPARATORS - THE 8" CONTROL VALVE WAS BEING WORKED ON -
(CHANGING DIAPHRAGM) - PRESSURE FROM THE HIGH PRESSURE
SIDE OF THE CONTROL VALVE LEAKED PAST THE GORE TO THE
LOW PRESSURE SIDE - POP-OFF SET AT 345 PSI - WHEN
INCIDENT HAPPEN - OPERATOR QUICKLY OPENED VALVE TO SEPARATORS
TO RELIEVE PRESSURE & PREVENT POP OFF FROM GOING OFF - MONITORS
WERE SHUT OUT RIGHT AWAY - GOT HIGHEST SPIKES OF 3 PSI AND HIGHER
STATION MAXIMUM HIGHEST SPIKE OF 6 PSI ALL AGENTS WERE NOTIFIED AND
COUNTY CIVIL DEFENSE CALLED SEVERAL RESIDENTS TO TELL THEM WHAT HAPPENED.
Weather GOOD

Submitted by

E. J. Smith

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 29, 1993

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:15 A.M. RUNNING 8 UNITS - PRODUCING 21.5 MGD. MGT -
Flow Rate of 355,000 #/HR Steam - Flow Line Pressure
708 PSI - Temperature Out of Separators 438°R -
Flow from West Leg of KS-10 ONLY - 8" AND 3" CONTROL
VALVE ON WEST LEG OPEN 92% - OIL #15 DOWN FOR
PREVENTING - OIL #12 DOWN DUE TO ELECTRICAL PROBLEMS -
THE PLANT PRODUCING POWER AND BACK ON THE
GRID AT 4:49 P.M. YESTERDAY AFTERNOON.

Weather Good

Submitted by E. J. Parker

DAILY REPORT

SEPT 30, 1993

Well No. MW-2 Contractor PCO

DESCRIPTION OF ACTIVITIES

DRILL RIG MOVED BY TO DO FISHING JOB
ON LOWER MONITORING WELL. DROPPED FISH AT
433'. WORKED PIPE AND SOMEWHAT PULLING -
FEEL LIKE FISH IS COMING UP HOLE WITH DRILL
PIPE - AT 12:00 NOON FISH OUT OF HOLE -
SUB-MARINABLE PUMP ON BOTTOM WITH FIRST FISHING
POOL CATCHED ON - CABLE TIE SNAPPED ON TAIL BECAUSE
OF DIFFERENT CABLE LINES BEAD NESTED IN THE
HOLE CAUSING LOTS OF DRAG WITHIN COMING OUT OF
HOLE ORIGINALLY - THE ADDITIONAL DRAG CAUSED CABLE
TO PART - HAD TO BE CAREFULLY WITHIN GETTING
SAMPLES - WATCHING WERE TO PREVENT WIRE-LINE
BEAD NESTS IN THE WELL

Weather GOOD

Submitted by Eric Onda

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 28, 1993

Well No. Powah Plant Contractor PCV

DESCRIPTION OF ACTIVITIES

At 10:00 am. Plant still down - Ready to go -
Waiting for completion of work on KS-10 - At 11:50
am. Started flow to Separator - Then to Plant -
While waiting for pressure to build as well
as Hammer System up - Lots of spray gas from
SAIL on OLC units which work off of line
pressure - NCG units without the line pressure
cannot process gas - Initial flow from well -
High concentration of H₂S for gas bubble -

Weather Cloud

Submitted by Eric Tander

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT 27, 1993

Well No. Power Plant - Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:00 AM Power Plant Down -
Work Being Done on Well P60 Completion
and Also Piping Work on KS-10 Not
Complete As Yet -
Plans are to have All work complete before
Restart of Plant - Possibly Late This Afternoon.

Weather Good

Submitted by Jim Gault

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT 24, 1993

Well No. Powena Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 9:15 AM. RUNNING 9 UNITS - PRODUCING 26 M.W.
NAT. FLOW RATE OF 455,000 #/HR FROM FLOW LINE
PRESSURE 216 PSI - TEMPERATURE OUT OF SEPARATORS
436°F - 8" AND 3" CONTROL VALVES OPEN 39% AND 30%
ORE #15 DOWRY FOR PRINTING

Weather DRY

Submitted by Eric Tamba

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 23, 1993

Well No. Pouma Plume Contractor PCO

DESCRIPTION OF ACTIVITIES

At 5:10 AM. - Running 9 units - Producing 26 m.w.
Net - Flow Rate of 465,000 #/HR Steam - Flow
Line Pressure 215 PSI - Temperature out of
Separators 436°F - 8" and 3" Control Valves
Open 30% - One #11 Down due to mechanical
problem.

Weather Good

Submitted by Jim Parker

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT 22, 1993

Well No. Pouma Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:20 AM RUNNING 8 UNITS - PRODUCING 23 m.w
Net - Flow Rate of 450,000 #/hr Steam - Flow Line
Pressure 215 PSI - Temperature out of Separators
435°F - 8" AND 3" CONTROL VALVES OPEN 35%
Bring on Line ORE #15 - ORE #12 - Mechanical
Problems - Down.

Weather Good

Submitted by Jim Carlson

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT 21, 1993

Well No. Powah Plums Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:00 AM. RUNNING 9 LINES PRODUCING 25.5
M.W. NET. FLOW RATE OF 450,000 #/HR. STEAM - FLOW
LINE PRESSURE 215 PSI - TEMPERATURE OUT OF SEPARATORS
436°F - 8" AND 3" CONTROL VALVES OPEN 36% AND
32% - OIL #14 BRING PREPARED TO BE BROUGHT
BACK ON - AFTER #14 BACK ON OIL #15 TO BE
BROUGHT DOWN FOR PREHEATING

Weather Good

Submitted by Eli Tarkenton

DAILY REPORT

Sept 20, 1993

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 Am, Running 9 units. Producing 25 m.w.
Net - Flow Rate of 460,000 #/hr steam - Flow
Line Pressure 215 psig - Temperature out of
Separators 436°F. 8" AND 3" Control Valves
Open 30% AND 30% - One #14 Down for
Pressure.

NOTE: IN RECORDS of Friday's Shift Down Found
Problem in Circuit Board that Control Communication
With WellPad Controller AND Power Plant Controls -
During the Plant Shift Down. A Second WellPad
Controller will be installed AND During Normal
Operations. Two WellPad Controllers will be working
With the Two Legs on Plant will be controlled by
Separate Controller. - If Any Problem with Controller
the well will still flow through the other leg
under the controls of the Second WellPad Controller.

Weather Good

Submitted by Jim Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 17, 1983

Well No. Brown Plains Contractor PGV

DESCRIPTION OF ACTIVITIES

At 10:35 AM. RUNNING 7 UNITS - PRODUCING 20 M.W.
NKT. Flow Rate of 370,000 #/HR STATION - FLOW LINE
PRESSURE 215 PSE. TEMPERATURE OUT OF SEPARATORS
432°F - 8" AND 3" CONTROL VALVE OPEN 31% -
OIL #14 DOWN FOR PAINTING - OIL #24 AND #25
WORKING ON UNITS TO BRING BACK ON GRID -

At 3:41 AM. THIS MORNING THE PLANT LOST ALL
COMMUNICATION WITH WILLOW "A" - BILLS STARTED
TO SHUT IN - (IN SHUT IN PROGRAM 3" CONTROL
VALVE TO STAY OPEN AT 30%) - ALL OIL WERE TURNED
OFF - FLOW LINE PRESSURE DROPPED TO 15 PSE BEFORE
GOING TO ESSE - OPERATOR TURNED ON UNITS TO
HOLD REMOTE MODE TO BRING DOWN PRESSURE -
TECHNICIAN FOUND CIRCUIT BOARD IN PLANT FAILED
AND ARE WORKING TO CORRECT PROBLEM - NO PROBLEMS
WITH PRODUCTION WELLS OR INJECTION WELLS

Weather Cloud

Submitted by Jim Dahn

DAILY REPORT

Well No. Pouan Plains Contractor PLO

At 10:15 AM. RUNNING 9 UNITS - PRODUCING 25
M.W. NET. Flow Rate of 46,000 #/hr steam - Flow
Line Pressure - 215 PSE - Temperature out of
Separators 436°F. 8" AND 3" CONTROL VALVES OPEN
36% - DRG # 14 DOWN FOR PAINTING

Weather *Good*

Submitted by Eiri Tania

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 15, 1993

Well No. Pouma Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:15 Am. Running 9 units - Producing 26 mms
NIS - Flow Rate of 460,000 #/HR Steam - Flow
Line Pressure 215 PSI - Temperature out of
Separators 439°F - 8" AND 3" Control Lines Open
34% - One #13 Down for Maintenance

Weather Good

Submitted by Eui Tanka

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT. 14, 1993

Well No. Power Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:50 AM Running 9 units - Producing 25.5
M.W. per. Flow Rate of 460,000 #/hr steam - Flow
Line Pressure 215 PSI - Temperature out of
Separators 436°K - 8" AND 3" Control Valves Open
36% - OK #13 Down for Preheating -

Weather Good

Submitted by Jim Carter

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 13, 1993

Well No. Powah Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 9:50 AM. RUNNING 9 UNITS - PRODUCING 26.5
M.W. NPT - FLOW RATE OF 460,000 H/Hr SPARK.
FLOW LINE PRESSURE 215 PSI - TEMPERATURE OUT
OF SEPARATORS - 435°F - 8" AND 3" CONTROL VALVES
OPEN 37% - OIL #13 DOWN FOR PAINTING

Weather GOOD

Submitted by Eric Tarkenton

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT. 10, 1993

Well No. Power Plant.

Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 8 units - Producing 23.5
m.w. Net. Flow Rate of 425,000 #/hr steam. Flow
Line Pressure 215 PSI. Temperature out of
Separators - 432°F. 8" AND 3" control valves OPEN
34%. OIL #13 DOWN FOR PREHEATING - OIL #12
Ready to come back on line.

Weather Clear

Submitted by

E. C. Barker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT. 9, 1993

Well No. Powah Plumer Contractor PGV

DESCRIPTION OF ACTIVITIES

At 11:25 AM. RUNNING 8 UNITS. PRODUCING
23.8 m.w. net. Flow Rate of 420,000 #/hr. Steam
Flow Line Pressure 215 PSIG - Temperature out of
Separators 435°F - 8" AND 3" Control Valves Open
34% - OK, #13 DOWN FOR PAINTING - OK #12
WAITING FOR PARTS

Weather DRY

Submitted by Jim Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 7, 1983

Well No. Power Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:00 Am. RUNNING 8 UNITS PRODUCING -
23 M.W. MFT. Flow Rate of 420,000 G/HR Steam -
Flow Line Pressure 215 PSI - Temperature out of
Separators - 434°F - 8" AND 3" Control Valves
OPEN 32% - OIL #13 DOWN FOR PAINTING -
OIL #12 - DOWN FOR REPAIR - (Leaking Pressure)

Weather Good

Submitted by Eli Oake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

SEPT. 3, 1993

Well No. POWER PLANT. Contractor PLO

DESCRIPTION OF ACTIVITIES

At 9:40 AM. RUNNING 9 UNITS. PRODUCING 275 M.W.
Net. Flow Rate of 475,000 #/HR Steam - Flow Line
Pressure 215 PSI - Temperature Out of Separators -
438°F - 8" AND 3" Control Valves Open 36% -
OPC #12 DOWN WAITING FOR PARTS -

Weather Good

Submitted by Don Carlin

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept. 2, 1993

Well No. Powena Plumer. Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:05 Am Running 9 units - Producing 25.5
m.w NRT - Flow Rate of 460,000 #/hr Steam - Flow
Line Pressure - 215 psi - Temperature out of
Separators - 436°F - 8" AND 3" Control Valves
Open 30% - OIL #12 Down for Pressing

Weather Good

Submitted by Jim Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

Sept 1, 19 93

Well No. Pouina Plums Contractor PCO

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 9 units - PRODUCING 25.5 MGD.
NPS. Flow Rate of 460,000 H/HR Steam - Flow Line
Pressure - 215 PSI - Temperature out of Exchangers
444°F - 8" AND 3" Control Valves open 37% -
One HR. Pump for PRODUCING.

Weather Good

Submitted by Jim Gabe

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 31, 1993

Well No. POWER PLANT Contractor PGV

DESCRIPTION OF ACTIVITIES

At 1:00 P.M. RUNNING 9 UNITS. PRODUCING 26 MGD
NAT. Flow Rate of 475,000 #/HR. Steam - Flow
LINE PRESSURE - 215 PSE. TEMPERATURE OUT OF
SEPARATORS - 444°F. 8" AND 3" Control VALVES
OPEN 37% - DEC #12 DOWN FOR PREHEATING

Weather Good

Submitted by E. T. Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 30, 1993

Well No. Powen PLANO Contractor PCO

DESCRIPTION OF ACTIVITIES

At 11:05 AM. RUNNING 9 UNITS - PRODUCING 25.5 M.W.
NAT. Flow Rate of 470,000 #/hr Steam - Temperature
Out of Separators - 444°K - 8" & 3" Control Valves
OPEN 37% - OKE #12 - DOWN FOR PAINTING -
PLANT SHUT DOWN SCHEDULED FOR SEPT - 25, 26, 27

Weather Good

Submitted by Jim Oak

DAILY REPORT

Well No. POWER PLANT Contractor PCV

At 10:00 hr. RUNNING 9 units - Producing 26 m.w.
Nkt - Flow Rate of 475,000 #/hr Steam - Flow
Line Pressure 215 PSI - Temperature out of
Separators - 444°F - 8" AND 3" control valves
Open 36% - OKC #11 DOWN FOR PAINTING

Weather cloudy

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 19, 1983

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 9:30 AM, RUNNING 9 units. PRODUCING 26 M.W.
NAT. FLOW RATE OF 475,000 GPM - FLOW LINE PRESSURE
215 PSI - TEMPERATURE OUT OF SEPARATORS - 444°F - 8" AND
3" CONTROL VALVES OPEN 36°F - OIL #11 DOWN FOR PRINTING,

Weather Good

Submitted by Eric Parker

DAILY REPORT

Well No. Powder Plains Contractor PLC

At 12:40 P.M. RUNNING 9 UNITS - PRODUCING - 26
M.W. UNT - FLOW RATE OF 475,000 #/HR STEAM - FLOW LINE
PRESSURE - 215 PSI - TEMPERATURE OUT OF SEPARATORS 444° F -
8" AND 3" CONTROL VALVES OPEN 36% - ORE #1 DOWN
FOR PRIMING -

Weather Clear

Submitted by Li Park

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 17, 1993

Well No. Powah. Flared Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:25 AM. Running 9 units - producing 25.5
M.W. NRT - Flow Rate of 470,000 #/hr Steam -
Flow Line Pressure 215 PSE - Temperature out
of Separators - 444°F - 8" and 3" Control Valves
Open 36% - One #11 down for painting

Weather Good

Submitted by E. A. Ake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 16, 1993

Well No. Pouma Plant Contractor PG

DESCRIPTION OF ACTIVITIES

At 10:30 Am. Running 9 units - producing 24 m.w.
Nkt. - Flow Rate of 47,000 M/hr Steam - Flow Line
Pressure 210 PSI - Temperature out of Separator
441° - 8" and 3" control valve open 36% -
One #11 down for painting. Non-Compensable
Compressor being repaired - this lower power production.

Weather Windy

Submitted by E. J. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 13, 1983

Well No. Powah Plant Contractor PLO

DESCRIPTION OF ACTIVITIES

At 10:35 Am. Running 9 lines - Producing 25 m.
Net - Flow Rate of 470,000 #/hr - Flow Line
Pressure 210 PSI - Temperature out of Separator 441°F
8" and 3" control valves open 352 - OK #11
Down for PREVENTING

Weather Partly

Submitted by E. A. L.

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 12, 1993

Well No. Powai Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:10 Am. Running 9 units - producing 26 m.w.
Net. Flow Rate of 470,000 #/hr. from - Flow Line
Pressure - 211 PSE - Temperature out of separators -
442°F. 8" and 3" control valves open 37% -
ORC #11 - Down for painting.

Weather Partly

Submitted by E. J. Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 11, 1993

Well No. Powah Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:15 AM. RUNNING 9 UNITS - PRODUCING 26.5 MGAL
NAT. FLOW RATE OF 470,000 #/HR STREAM - FLOW LINE
PRESSURE - 211 PSE - TEMPERATURE OUT OF SEPARATORS - 442° -
8" AND 3" CONTROL VALVES OPEN 30% - DEC #11 DOWN
FOR PAINTING.

Weather RAIN

Submitted by Eric Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 10, 1983

Well No. POWER PLANT Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 9 LINES - PRODUCING 25.5
M.W. MFT - FLOW RATE OF 470,000 #/HR STEAM - FLOW
LEAK PRESSURE 210 PSI - Temperature out of
SEPARATORS - 442°F - 8" AND 3" CONTROL VALVES OPEN
36% - OKC #11 DOWN FOR PREHEATING

Weather GOOD

Submitted by Eir Parker

DAILY REPORT

August 9, 1993

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 8:25 AM - Running 9 units - Producing
26.5 m.w. MWT - Flow Rate of 470,000 #/hr Steam -
Flow Line Pressure - 211 PSF - Temperature out of
Separators - 442°F - 8" AND 3" Control Valves open
36" - One #11 - Down for Painting -
Yesterday at Approx 10:00 AM Plant - Got knocked
off the grid - Flow Rate got cut back to 100,000 #/hr
Bad Insulation on Helix System caused outage - Valves
Automatically closed to accommodate tripping of plant
off of the grid - By 2:00 PM Plant back on
grid at full capacity - No problems with wells -
The planned shut down of plant is scheduled
for the first week in September

Weather Good

Submitted by E. J. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 6, 1993

Well No. Kowau Plant. Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:40 AM. RUNNING 9 LINES. PRODUCING 25 M.W.
Net - Flow RATE OF 465,000 #/HR STEAM - FLOW
LINE PRESSURE - 210 PSF - TEMPERATURE OUT OF
SEPARATORS - 441°F - 8" AND 3" CONTROL VALVES
AT 36% - ONE #11 - DOWN DUE TO BRENDING

Weather Cloudy

Submitted by Eric Pahn

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 5, 1993

Well No. Powah Plant Contractor PLO

DESCRIPTION OF ACTIVITIES

At 10:20 AM. Running 8 units - producing 25.2 m.w.
MIL. Flow rate of 435,000 M/Hr steam - Flow Line
Pressure 211 PSI - Temperature out of Separator
439°F. 8" and 3" Control Valves open 34%
Bring back onto the grid 9th unit - 10th
unit bring online.

Weather BREY

Submitted by Eli Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 4, 1993

Well No. Powder Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:20 Am. Running 10 units - Producing 28 m.w.
Net - Flow Rate 515,000 #/hr Steam - Flow Line
Pressure 2-10 PSF - Temperature out of Separators -
445°F - 8" & 3" Control Valves Open 37%
For July Production - The Steam / Brake Ratio For
1259 - At 11% And 125.10 At 14%

Weather Partly

Submitted by Eric Parker

Honolulu, Hawaii 96809

August 3, 1953

Well No. Lower Plains Contractor PLV

At 10:15 AM. RUNNING 10 units - PRODUCING 29 MW
NPT - Flow Rate of 525,000 #/HR Steam - Flow LINK
PRESSURE - 211 PSI - Temperature Out of Separator -
446°F - 8" AND 3" Control Valves open 39%

Weather *Clear*

Submitted by Eric T. Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

August 2, 1983

Well No. Power Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 9:55 Am. Running 10 units - Producing 29 M.W.
NRT - 31.5 M.W. Gross - Flow Rate of 575,000 #/hr Steam.
Flow Line Pressure 210 PSI. - Temperature out of
Separators - 446°F - 8" & 3" Control Valves open 39%

Weather Good

Submitted by Eli Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 30, 1993

Well No. Powena Plot 15 Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:15 am RUNNING 10 UNITS - PRODUCING 29 M.W.
Net - Flow Rate of 525,000 H/Hr Steam - Flow Line
Pressure - 211 PSI - Temperature out of Separators -
447°F - 8" and 3" Control Valves OPEN 39%

Weather RAIN

Submitted by E. Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 29, 1993

Well No. Powah Plot Contractor PLC

DESCRIPTION OF ACTIVITIES

At 4:30 P.M. Running 10 units monitoring
29.5 m.w. NRT - Flow Line Pressure 210 PSI - Temperature
out of Separator - 446°F - 8" + 3" valves open
3990 -

Weather Partly

Submitted by Jim Palmer

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMEN
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 28, 1983

Well No. Power Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 9:50 AM. RUNNING 10 units - Producing 29.5
M.W. Net - Flow Rate of 525,000 #/hr Steam -
Flow Line Pressure: 210 PSI - Temperature out of
Superheaters: 446°F - 8" & 3" Control Lines open
39%

Weather RAIN

Submitted by E. Baker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 27, 1993

Well No. Pouan Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:50 am. Running 9 units producing 26 m.w.
N2 - moving up to 27 m.w. with 10th unit coming
onto the line - Flow Rate of 450,000 #/hr Steam -
Flow Line Pressure - 211 PSI - Temperature out of
Separators 444°F - 8" & 3" Control Valves open
450.

Weather Partly

Submitted by E. Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION WATER RESOURCE MANAGEMEN
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 26, 1983

Well No. Powder Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:15 AM Running 4 wells - Producing 25.2
M.W. Unit - Flow Rate of 460,000 #/HR Steam - Flow
Line Pressure 210 PSI - Temperature out of Separator
At 441°F - 8" & 3" Control Valves open 352 - When
this is done P60 to hold production to be held at
25 M.W. Unit Total to the Grid

Weather Good

Submitted by [Signature]

DAILY REPORT

July 30, 1953

Contractor Pao

Температура - 165°.

Weather *Kn*

Submitted by Lin Tash

DAILY REPORT

July 28, 1953

Well No. KS-1A Contractor P60

At 10:10 AM. WRIGHTMAN PRESSURE - 54 PSI.
HYDROSTATIC AT 4:20 PM - NITROGEN PRESSURE 1700 PSI.
Temperature - 160°F

Weather *Reed*

Submitted by 

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 27, 1993

Well No. KS-1A

Contractor PLW

DESCRIPTION OF ACTIVITIES

At 10:10 am. Wellhead Pressure - 63 PSI.
Injecting at 420 GPM - Nitrogen Pressure - 1200 PSI.
Temperature - 170°F.

Weather RMW

Submitted by E. A. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 26, 1993

Well No. KS-1A

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:40 am. Wellhead Pressure 93 PSI -
Producing At 441 GPM - NISOGRAV Pressure 1215 PSI
Temperature - 170°F.

Weather Cloudy

Submitted by E. A. Carter

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 23, 1983

Well No. Power Plant 5-

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 AM RUNNING 9 LINES PRODUCING 24 MW.
NRA - FLOW RATE OF 450,000 #/HR. STAIN - FLOW LINE
PRESSURE 210 PSI - TEMPERATURE OUT OF SEPARATORS - 440° F.
KS-10 SHUT IN AT APPROX 9:00 AM. DUE TO CRACKING
WELL VALVE ON #41 LAG - REPLACEMENT OF VALVE
BEING DONE - ALARMS AT STATION "B" AT 11:00 PM WENT
OFF WITH SPIKE OF 6 PSI - MONITORS SENT OUT TO TAKE
READING - WHEN TAKING READING - NO TRACES OF
H₂S - CRAW REPLACED & WELL VALVE AND BOP
PRESSURE TESTING LINE BEFORE BRINGING WELL BACK
ON LINE.

Weather Clear

Submitted by Eini Taka

DAILY REPORT

Well No. Person Plotter Contractor PLU

At 11:30 AM. RUNNING 9 units. Producing 25 m.w.
 Next. Flow Rate of 465,000 #/hr Steam-Flow
 Line Pressure 209 PSE- Temperature out of
 Separators - 448°R - f- control valves open 30%.

Weather *RAIN*

Submitted by W. Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 21, 1993

Well No. Powena Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:00 A.M. RUNNING 9 UNITS - PRODUCING 20.5 M.W.
N/A - Flow Rate - 390,000 #/hr Steam - Flow Line
Pressure - 710 PSI - Temperature out of Separators -
436°F - 8" AND 3" Control Valves open 30% -
At approx 8:00 AM. Hvac Lost Power and Asked
PGO to Cut Back to 20 m.w. - Problem at PAKOA
Sub station.

Weather Clear

Submitted by Eric Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
FRESH WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 20, 1993

Well No. Porcupine Flare

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 10 UNITS - PRODUCING 75 M.W.
NLT - Flow Rate of 460,000 #/HR Steam - Flow Line
Pressure 210 PSI - Temperature out of Separator -
441°F - WORKING ON 3" AND 8" CONTROL VALVES

Weather Good

Submitted by Ben Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 19, 1993

Well No. Powena Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 9 units. PROCEEDING TO 16.0.
Note - Flow Rate of 465,000 GPD - Flow Line
Pressure 210 PSI - Temperature out of separators -
44.2°C - 3" and 8" control valves on manual
control - Having trouble with Auto mode - Trouble
shooting being done

Weather Partly

Submitted by E. J. Oka

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 16, 1983

Well No. Powai Plume

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:10 AM. Running 10 Wells. Producing 29 MW
NAT - Flow Rate of 525,000 #/HR Steam - Flow Line
Pressure 211 PSI - Temperature Out of Steamers -
446°F - 8" Control Lines Open 36%

Weather Good

Submitted by Jim Dale

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 15, 1993

Well No. Powah Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 AM. Running 10 lifts producing 29 M.W.
Net - Flow Rate of 500,000 #/hr steam - Flow Line
Pressure - 210 PSI - Temperature out of Separator
446°F - 8" Control Valve open 36%

Weather Good

Submitted by Eli Tule

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 14, 1993

Well No. Powers Pump Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:00 AM. RUNNING 10 units - producing 30. MW
NK - Flow Rate of 5,00,000 #/HR Steam - Flow LSK.
Pressure - 210 PSI. Temperature out of Superheaters 446°C
8" control valves open 36%

Weather Partly

Submitted by E. P. P.

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 13, 1993

Well No. Powena Plant Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:40 Am. Running 10 units - Producing 28.3 Mw.
Net - Flow Rate of 570,000 ^{liters}/hr Steam - Flow
Line Pressure - 210 PSI - Temperature out of
Separators - 447°F - f° Control UMWA open 36%

Weather Good

Submitted by B. A. Oahu

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 12, 1993

Well No. Power Plant Contractor PLO

DESCRIPTION OF ACTIVITIES

At 11:05 AM. Running 10 units - producing 29 M.W.
NW. Mt. Flow Rate of 520,000 #/HR steam - Flow Line.
Pressure - 211 PSI - Temperature out of separators - 447°F.
8" Control valves open 37%

Weather RAINY

Submitted by Lin Pak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 9, 1993

Well No. Powah Plant Contractor P40

DESCRIPTION OF ACTIVITIES

At 10:30 AM. RUNNING 10 UNITS - PRODUCING 29.5 M.W.
NRT - Flow Rate of 570,000 G/HR Station - Flow Line
Pressure - 211 PSI - Temperature out of separators -
447°F - 8" Control Valves open 37%

Weather Partly

Submitted by Lin Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 8, 1993

Well No. Powar Plotter. Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:15 AM RUNNING 10 UNITS - PRODUCING 29.44.
NET- FLOW RATE OF 520,000 #/HR STEAM - FLOW
LINE PRESSURE 211 PSI - TEMPERATURE OUT OF SEPARATORS
446°F - 8" CONTROL VALVE OPEN 37% - YESTERDAY
WELL-PAD "A" CONTROL COMPUTER POWER SOURCE WENT DOWN -
CAUSING - CONTROL VALVE TO CLOSE - SHUT WELLS DO TO PSI.
FLOW LINE PRESSURE - (BLACK OUT IN KONA) PLANT TRIPPED
OFF LINE - FIXED POWER SOURCE FOR COMPUTER -
PLANT BACK ON LINE AT FULL CAPACITY AT 8:00 PM.
BACK UP POWER SOURCE BEING ORDERED

Weather Good

Submitted by Eric Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 7, 1983

Well No. Powern Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:50 AM. RUNNING 10 units. Producing
29 M.W. NET - 31.5 M.W. GROSS - Flow Rate of
500,000 B/HR Steam - Flow Line Pressure 211 PSIG.
Temperature out of Separators - 447°F - 8" Control
Water Open 36%

Weather Cloudy

Submitted by Lin Baker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVIS 1 WATER RESOURCE MANAGI F
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 6, 1993

Well No. POWER PLANT Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:35 AM. RUNNING 10 UNITS - PRODUCING 29 M.W.
NRT. 31.5 MW GROSS - Flow Rate of 520,000 #/HR STEAM.
Flow LEAK PRESSURE 212 PSE - TRIMPLETOWER OUT OF
SEPARATORS - 447'P - 8" CONTROL VALVES OPEN 36%.
NOTE: At 11:00 P.M. HECO HRS PLW - BRING PRODUCTION
DOWN TO 22 M.W. NRT - AS EARLY MORNING HOURS - AT
APPROX 6:00 AM - BACK UP TO FULL PRODUCTION - DUE TO
PROVISIONS IN POWER CONTRACT.

Weather Cloud

Submitted by R. Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 2, 1993

Well No. Pouma Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1.50 P.M. RUNNING 5 UNIT PRODUCING 26 M.W.
UNIT - Flow Rate 465,000 #/HR Steam - Temperature
out of Separators 443°F - Flow Line Pressure 211 PSIG
8" Control Valve open 33%

Weather RIKEN

Submitted by Eric Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 1, 1993

Well No. Power Plant Contractor PG&E

DESCRIPTION OF ACTIVITIES

At 10:50 AM, RUNNING 9 UNITS - BRING #10 UNIT BACK
ON LINE - PRODUCING 25 MMW NET - FLOW RATE of
480,000 #/HR STEAM - TEMPERATURE OUT OF SEPARATORS
443°F - FLOW LINE PRESSURE - 210 PSIG - 8" CUMULUS
UMWA'S OPEN 34%

Weather Good

Submitted by E. J. Parker

Honolulu, Hawaii 96809

June 30, 1953

Well No. Rowan Plotter Contractor PLC

At 10:50 A.M. RUNNING 10 WATERS - PRODUCING -
29.5 M.W. NET - 32 M.W. GROSS - FLOW FROM OF
570,000 BBL/DAY SEPAR. - FLOW LINE PRESSURE - 210 P.S.I.
Temperature out of separators - 446°F - 8" CUMULOT
VALVES OPEN AT 35%.

Weather *Ray*

Submitted by R. Taylor

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 29, 1993

Well No. Powah Plumes Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:35 AM. Running 10 wires - Producing 29 m.w.
Net. 31.5 m.w. Gross. Flow Rate of 510,000 gpm
Stem - Flow Line Pressure - 210 PSI -
Temperature out of Separators - 44.5°F - Transmitting
Through Both Transducer and Transmission Lines -
Got up to 30 m.w. out - (Installed Second
Transformer this past weekend)

Weather RAIN

Submitted by Eric Telle

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 28, 1993

Well No. Powah Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 10:55 AM. Running 10 units - Producing 26.5 m.w.
Net - 29 m.w. Gross - Flow Rate of 480,000 #/hr
Steam - Flow Line Pressure - 217 PSI - Temperature -
Out of Separators - 445°F - 8" Control Valves - 34%

Weather Breezy

Submitted by Jim Pak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 24, 1993

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 12:40 P.M. RUNNING 10 UNITS. PRODUCING
26.8 M.W. NET - 29.3 M.W. GROSS - FLOW RATE OF
480,000 #/HR. STAIN - FLOW LEAK PRESSURE 217 PSI.
TEMPERATURE OUT OF SEPARATORS 445°F. 8" CONTROL
VALVES OPEN 34°

Weather Good

Submitted by Eric Tahn

DAILY REPORT

June 23, 1982

Well No. Power Plant Contractor P&O

At 10:30 AM. RUNNING 10 HOURS PRODUCING 26.5 M.W.
VHT. 29 MW Gross - Flow Rate of 480,000 #/HR STEAM.
Flow Line Pressure - 217 PSI - Transmitter out
of Separator - 445°F.

Weather *Cloudy*

Submitted by Lin Pak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 22, 1993

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:20 AM. RUNNING 9 UNITS - PRODUCING 25.2 MW.
NAT - 27.2 MW GROSS - Flow Rate of 450,000 #/hr Steam -
Flow Line Pressure 217 PSI - Discharge out of
SAPMATIONS - 445° F - Trying to bring on line 10th unit -
8" control valves open at 3:00.

Weather Cloudy

Submitted by Don Galt

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 21, 1993

Well No. Pawnee Plant. Contractor PLC

DESCRIPTION OF ACTIVITIES

At 10:30 am Running 10 units - Producing 26.5 m.w.
Net - 28.5 m.w. Gross - Flow Rate - 480,000 #/hr Steam.
Flow Line Pressure - 216 psig - Temperature out of
Separator - 445°F - All 8" Control Valves open
At 3:40 pm - At 8:00 am DUES morning - started
100 Hour Test for 25 m.w. capacity.
On Saturday - Put back production wells - KS-9 & KS-10
Back on Separator Separator - With equalizer circulation
Pressure - KS-9 Producing 300,000 #/hr of Steam with approx
10% brine - KS-10 Producing 175,000 #/hr of Steam with
approx 20% brine - For the 100 Hour Test - will be
commencing the steam for steady flow - In the near
future - will install steam analyzer with differential
pressure to measure steam flow from separator lines - Also
would be option to switch back well on Separator
Separators to collect nitrogen data.

Weather Cloudy

Submitted by Jim Lake

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 18, 1993

Well No. Powah Mchert

Contractor Pio

DESCRIPTION OF ACTIVITIES

At 10:30 A.M. Running 9 units producing 25 m.w.
Net - 27 m.w. Gross - Flow Rate 450,000 #/hr steam.
Temperature out of Separator 440°F - Flow Line
Pressure 211 PSI

Weather

Good

Submitted by Pio

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 17, 1993

Well No. Power Plant

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:00 AM. Running 9 units. Producing 75.4 M.W.
Net - 77.4 M.W. Gross - Flow Rate of 460,000 #/HR Steam.
Temperature out of Steamtraps - 441°F - Flow Line
Pressure - 211 PSI.

Weather Good

Submitted by Jim Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVIS OF WATER RESOURCE MANAGE NT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 16, 1993

Well No. POWER PLANT Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:45 P.M. RUNNING 9 UNITS - PRODUCING 24.7 M.W.
Net - 26.7 m.w. Gross. Flow Rate of 455,000 #/HR STEAM.
Temperature out of Separators - 441°F - Flow Low.
Pressure - 211 PSIG. - LAST NIGHT - "B" NCG UNIT DEVELOPED
A Leak - Shut Down Immediately - NO H₂S READINGS
OUTSIDE OF PLANT AREA - RIGGERS BEING WORK - POINT SOURCE
MONITOR LIGHT OFF AT NCG UNITS.

Weather Good

Submitted by Eric Park

DAILY REPORT

Well No. Powder Plant Contractor PLC

At 11.05 Am. Running 9 Units - Producing - 25 m.w.
Net 27 m.w. Loss - Flow Rate of 455,000 #/hr. Strain
Oily produced out of Separator - 440°K - Flow Line
Pressure - 209 PSI.

Weather *brown*

Submitted by Eric Fink

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 10, 1993

Well No. Powere Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 11:15 AM. Running 9 units - producing 24 gpm.
Net - 26 M.W. Gross - Flow Rate of 450,000 #/hr steam,
Temperature out of Separator - 443° - Flow Line
Pressure - 215 PSI.

Weather Good

Submitted by E. Oak

DAILY REPORT

Well No. Power Plant Contractor PCO

At 10:35 AM. Running 9 units - Producing -
25.3 m.w. Net - 27.3 m.w. Gross - Flow Rate of
470,000 #/hr. Strain - Temperature out of Separators
At 440° - Flow Line Pressure - 210 PSI

Weather *KDEN*

Submitted by Eric Tarkenton

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 7, 1993

Well No. Powai Plains Contractor P60

DESCRIPTION OF ACTIVITIES

At 9:15 AM. Running 9 units - Producing 25.5
M.W. Net, 27.5 M.W. Gross - Flow Rate of 465,000 #/hr
Steam - Temperature out of separator - 448°R - Flow
Line Pressure - 210 PSI.

Weather Good

Submitted by Eric Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

February, 1992

Well No. P40 Contractor _____

DESCRIPTION OF ACTIVITIES

2-3-92 The Developer Running Boiler Steam Through the
Plant to do Testing. Windy

2-4-92 The Developer Running Boiler Steam Through the Plant
to do Testing. They will be testing the loss of heat
today and then start with fine tuning of the whole plant.
Good weather.

2-5-92 The Developer Running Boiler Steam Through the
Plant for Testing - Rain.

2-6-92 The Developer Still Testing Plant with Boiler
Steam - Good weather.

2-7-92 The Developer Still Testing Plant with Boiler Steam
Good weather.

2-10-92 The Developer Still Testing Plant with Boiler Steam.
Plant Alarm went off at 12:00 noon - Good weather.

2-11-92 The Developer completed Testing Power Plant. The
Boiler being dismantled to be shipped back to the mainland. Good weather.

Weather See Above

Submitted by

E. J. T. T.

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION 7 WATER RESOURCE MANAGEME
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 4, 1993

Well No. Powena Fluvial

Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:55 AM. RUNNING 9 UNITS. PRODUCING 25.5 M.W.
NET. 22.5 M.W. GROSS - FLOW RATE OF 470,000 #/HR STEAM -
TEMPERATURE OUT OF SUPERHEATER - 440°K - FLOW LINE
PRESSURE - 210 PSIG.

Weather Good

Submitted by Sam T. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 3, 1983

Well No. Power Plant Contractor Pao

DESCRIPTION OF ACTIVITIES

At 10:10 AM. Running 9 units - Producing -
25 M.W. Net - 27 M.W. Gross - Flow Rate of 470,000 $\frac{bbl}{hr}$
Steam - Temperature out of Separator - 440°F -
Flow Line Pressure - 210 PSE.

Weather Good

Submitted by E. Vabu

DAILY REPORT

June 2, 1993

Well No. Power Plant Contractor PLC

At 1:40 P.M. RUNNING 9 UNITS - PRODUCING 24 M.W.
NET - 26 M.W. GROSS - Flow Rate of 465,000 #/hr
of steam - Temperature out of separators - 440°F.
Flow Line Pressure - 210 P.S.I.

Weather Good

Submitted by Lin Park

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

June 1, 1993

Well No. Power Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 11:00 AM. RUNNING 9 LINES - PRODUCING 23.5
M.W. NET - 25.5 M.W. GROSS - FLOW RATE OF 460,000 #/HR
STEAM - TEMPERATURE OUT OF SEPARATORS - 440°F -
FLOW LINE PRESSURE - 210 PSI

Weather Clear

Submitted by Eric Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 28, 1993

Well No. Powah Plains Contractor PLO

DESCRIPTION OF ACTIVITIES

At 10:05 AM, RUNNING 9 units - Producing
22 m.w. Net - 24 m.w. Gross - Flow Rate of 430,000 #/hr
Steam - Temperature out of Separators - 440°K -
Flow Line Pressure - 210 PSI.

Weather Cloudy

Submitted by Jim Smith

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 27, 1993

Well No. Power Plant Contractor PLU

DESCRIPTION OF ACTIVITIES

At 12:15 P.M. Running 9 units - Producing -
24.3 m.w. Net - 26.3 m.w. Gross - Flow Rate of
460,000 #/hr. Steam, 8" And 3" Vitrals Oper 47%
Temperature out of Separator - 440°F - Flow Line
Pressure - 210 PSE.

Weather Good

Submitted by E. J. [Signature]

DAILY REPORT

Well No. Perman Permit- Contractor Plu

At 10:10 PM. RUNNING 9 units - Producing 21 1/2 m.w.
Nkt. 23 1/2 m.w. Gross - Flow rate of 420,000 #/hr steam -
Temperature out of Separators at 439°F - Flow Line.
Pressure 205 PSF - Making Room to Bring on
10th Unit -

Weather *Good*

Submitted by Eric Galt

DAILY REPORT

May 28, 1993

Well No. Powner Plover Contractor PLO

At 9:20 A.M. RUNNING 9 UNITS. PRODUCING
23 1/2 M.W. NET - 25 1/2 M.W. GROSS - FLOW RATE OF
458,000 M³/HR Steam - Temperature out of Separator
440°K - 8" AND 3" VALVES OPEN 44% - Flow Line
Pressure - 210 PSIG

Weather Cloudy

Submitted by Eric Galt

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 24, 1993

Well No. Powam Plant. Contractor P60

DESCRIPTION OF ACTIVITIES

At 9:30 AM. RUNNING 9 UNITS - PRODUCING - 23 MW.
NET - 25 MW GROSS - FLOW RATE OF 450,000 #/HR.
of steam - Temperature out of Superheaters - 439°C.
8" AND 3" VALVES OPEN 42% - FLOW LINE PRESSURE -
210 PSE.

Weather RAINY

Submitted by Jim Va. h.

DAILY REPORT

Well No. Powan Plogres Contractor PLO

At 12:20 AM. RUNNING 5-UNITS - WITH 2 UNITS ON STANDBY -
Producing 12 MW. NET - WITH 270,000 #/HR Steam Flow

Submitted by Eini Taha

DAILY REPORT

Well No. Power Plant Contractor PGO

At 12:30 P.M. RUNNING 5 WELLS AND PRODUCING
12 M.W. MFT - 2- WELLS WORKING ON STATION - B₂ -
Running with flow Rate can be increased -
Flow Rate at 267,000 #/HR -

Weather *Clear*

Submitted by Jim Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 28, 1993

Well No. Powder Plotter. Contractor PLC

DESCRIPTION OF ACTIVITIES

Processing 10 min net - with 5 units - bringing on
6th line - Steam flow of 240,000 #/hr -
Planners to open up for control valve to bring
up flow rate and also bring on more units
and produce more power - Looking at approx 300,000 #/hr ±

Weather Cloudy

Submitted by Jim Park

DAILY REPORT

Well No. Power plant Contractor PCU

At 10.00 A.M. 5 UNITS RUNNING - PRODUCING 9.4 M.W.
NRT to JTR GRID - FLOW RATE OF 220,000 #/HR

Weather *RAIN*

Submitted by Eric Tule

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 26, 1993

Well No. Powena Plant Contractor PLD

DESCRIPTION OF ACTIVITIES

At 12:15 P.M. 5 units running - 9.6 M.W. Gross -
8.2 net - Net out to the grid - Stream flow at
208,000 #/hr through 3" control valves - 5 units running
from standby - Problems with 8" control valve controller -
parts ordered.

Weather Good

Submitted by [Signature]

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 21, 1993

Well No. Power Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 12:20 P.m. Running 10 units - Producing
23.5 M.W. Net - 25.5 M.W. Gross - Flow Rate of
460,000 #/HR Steam - Temperature - Out of Separator
440°F - 3" AND 3" VALVES OPEN 44% - Flow Line
Pressure to Plant 210 PSI.

Weather Partly

Submitted by

Pat Cook

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 20, 1983

Well No. POWER PLANT Contractor PCO

DESCRIPTION OF ACTIVITIES

At 10:00 am. RUNNING 10 units. PRODUCING 23 m.w.
Net - 25 m.w. Gross - Flow rate of 455,000 #/hr
Steam - Temperature out of separators - 440°F -
8" AND 3" VALVES OPEN 440°F - PRESSURE IN
Flow Line to Plant - 210 PSI.

Weather Cloudy

Submitted by



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 18, 1993

Well No. Power Plant. Contractor PCO

DESCRIPTION OF ACTIVITIES

At 12:30 P.M. RUNNING 10 UNITS - PRODUCING 73 M.W.
NAT - 75 M.W. GROSS - FLOW RATE OF 450,000 #/HR STEAM.
TEMPERATURE OUT OF SUPERHEATER AT 440°F - PRESSURE
IN LINE TO PLANT - 210 PSI - 8" AND 3" VALVES OPEN
46°F

Weather Cloudy

Submitted by

[Signature]

DAILY REPORT

May 17, 1993

Well No. Powder Point Contractor PCO

At 10:35 AM RUNNING 9 UNITS - PRODUCING 22 M.W.
NET - 25 M.W. GROSS - FLOW RATE OF 440,000 #/HR STEAM
8" UNITS OPEN 40% - 3" UNITS OPEN 40% - TEMPERATURE
OUT OF SEPARATOR - 439°F.

Weather Cloud

Submitted by

DAILY REPORT

Contractor PCU

At 8:40 A.M. RUNNING 10 LINES - PRODUCING 25.5 M.W.
Net - 25.5 M.W. Gross - Flow rate of 455,000 #/HR
of Steam - 8" Lines At 46% - 3" Lines At 46%
Temperature Out of Separators At 439°K -

Weather Clear

Submitted by Ben Parker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 14, 1993

Well No. Powee Plover Contractor PGO

DESCRIPTION OF ACTIVITIES

At 9:25 AM. RUNNING 9 LINES - PRODUCING 23 M.W.
NET - 25 M.W. GROSS - Flow Rate - of 450,000 #/HR of Steam.
Drum pressure out of Separator at 448° - 8" valves
open at 438° - 3" valves open 438° - Running
100 Hour Test

Weather Cloud

Submitted by Don Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 13, 1993

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 11:45 AM. RUNNING 9 LINES - PRODUCING 23 M.W. NET -
25 M.W. GROSS - Flow Rate of 450,000 #/HR. Steam - Temperature
After Separator - 440°F - 8" VLVRS OPEN 43%
AND 3" VLVRS OPEN 43%

Weather Cloudy

Submitted by R. A. [Signature]

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 12, 1993

Well No. Powder Plant Contractor PCO

DESCRIPTION OF ACTIVITIES

At 9:00 AM Running 8 units Producing 21 M.W. Net 23 M.W.
Cross - #9 unit Ready to come on line - Flowrate of
400,000 #/hr - Temperature out of Separator at 439°K.
8" VAPOR AT 40% AND 3" VAPOR AT 40%.

Yesterday At Approx 1:30 PM Back on line with 1st unit.
Then gradually with other units. By 7:30 PM Back
up with 8 units Producing power to the Grid.
No Problems with WELPS - Found the Emergency
Generator to have two problems - They did not
start up when plant tripped off line - Cause
of Trip to be with HCU with a Circuit Breaker
Open thus causing plant to trip - Now in process
of switching Transmission line - crews working on
equipment of Transmission line.

Weather Good

Submitted by E. Baker

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 11, 1995

Well No. Lower Plant

Contractor PGO

DESCRIPTION OF ACTIVITIES

At 12:30 P.M. RUNNING 8 UNITS - PRODUCING 23 M.W.
NET - 25 M.W. GROSS - FLOW RATE OF 445,000 #/HR STEAM
8 UNITS OPEN 45% - 3" VALVES OPEN 30% - 11" ORIFICE
OUT OF SEPARATOR 440" R -

At 1:30 P.M. Plant Tripped Off Line - AMO SHUT IN
WELL - MALFUNCTION OF STANDBY GENERATOR & KUP SYSTEM
RUNNING - SMALL RELEASE AT EPSRS - NO HYS - RESTARTING
SYSTEM BACK UP OF EPSRS - STARTED GENERATOR
AND RESTARTED 2 UNITS ON HEAT REMOVAL AND SLOWLY
BROUGHT BACK 2 UNITS BACK ON TO THE GRID WITH THE
BALANCE OF UNITS (5) TO BE BROUGHT BACK ON TO THE
GRID GRADUALLY.

Weather GOOD

Submitted by Jim Cook

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 10, 1993

Well No. Power Plant Contractor P60

DESCRIPTION OF ACTIVITIES

At 9:00 AM. RUNNING 8 UNITS - PRODUCING 23 M.W. NET -
(35 M.W. GROSS) - Flow Rate of 445,000 #/HR of Steam -
8" VLVs - open 45% - 3" VLVs open 30% - Temperature
out of Separator at 440°F - At 8:00 PM. Started
100 Hour Test for H2O

Weather Clear

Submitted by Eini Gault

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 7, 1993

Well No. Power Plant Contractor PLC

DESCRIPTION OF ACTIVITIES

At 1:15 P.M. Running 8 units - Producing 15 m.w. net
Flow Rate At 350,000 M³/hr Span - Temperature At
Plant Inlet At 387°F.

Weather Good

Submitted by Jim Park

DAILY REPORT

Well No. Power Permit Contractor PLC

At 9:05 am. Running 8 units - Producing 20 m.w. net -
Flow Rate of 400,000 #/hr of Steam - 8" valves at 39%
and 3" valves at 38% - Temperature out of Separator
at 439°F.

Weather 62000

Submitted by Lin Park

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 5, 1983

Well No. Power Plant Contractor PCU

DESCRIPTION OF ACTIVITIES

At 10:40 AM. RUNNING 9 UNITS - PRODUCE 23 M.W.
NKS - 25 M.W. GROSS - Flow Rate of 450,000 #/hr
of Steam - Temperature After Separator at 440°F.
Using Both Lags with 8" open 45% and 3" open
30%.

Weather Cloudy

Submitted by B. Paul

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 4, 1993

Well No. POWER PLANT Contractor PLU

DESCRIPTION OF ACTIVITIES

At 1:10 P.M. Running 8 Lines - Producing 21 m.w.

Max (24 m.w. Gross) - Flow Rate of 450,000 #/hr -

Both Legs Flowing with Both 8" control valves

open at 39% and Both 3" valves open at 30% -

They seem to feel approx 450,000 #/hr - would be

about max with any more higher flow - A dramatic

drop in wellhead pressure is observed - Taking

The 2" well bore size

Weather Clouds

Submitted by Eric Oak

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

May 3, 19 93

Well No. Power Plant - Contractor PGO

DESCRIPTION OF ACTIVITIES

At 10:15 AM. Running 8 units - Ready to bring on
9th unit - Producing 24 M.W. Gross - 21 MW Net to
the Grid - Steam flow of 420,000 #/hr - using
1 leg at 65-75% on both 3" and 8" valves - to
bring on 2nd leg to bring on more flow to
bring on more units -

At 12:10 P.M. 9 units Running with 23 MW Net M.W.
to the Grid - Steam flow of 445,000 #/hr

Weather Good

Submitted by Pat Taha

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

April 23, 1993

Well No. Power Plant Contractor PGW

DESCRIPTION OF ACTIVITIES

At 10:45 am, Flow Rate to Old Plant at 162,000 gpm
of stream - producing 5 m.w. Gross - 4 m.w. Net
to Old Plant with 2 units #24 and #25.

WH @ 1888 gpm

Temp @ 67.0° F

Weather Partly

Submitted by Pi Toa

APR 22, 1993

FOR IMMEDIATE RELEASE

Contact: Steven E. Morris
(808) 965-6233

Title: PGV GENERATES ELECTRICITY

Post-It™ brand fax transmittal memo 7671		# of pages 1
To	Keith Ahue	From Steven Morris
Co.	DLNB	Co. Puna Geothermal
Dept.		Phone # 528-5225
Fax #	587-0390	Fax # 524-9349

Puna Geothermal Venture announced this afternoon that the first of ten generating units from its 25 megawatts power plant has been activated and electricity was being provided to HELCO.

"We began generating approximately 2.5 megawatts of electricity shortly after 4:00 p.m." PGV vice-president and general manager, Steven Morris stated, "and we expect to increase the level to approximately five megawatts later today. We are pleased with the way our start-up has progressed." PGV is under a contract with HELCO to provide the local utility with a firm 25 megawatts of electricity.

PGV successfully completed a clean-out of production well KS-9 on Tuesday and steam has been flowing since Wednesday. Geothermal steam from depths nearly a mile underground is used by the power plant, the spent fluids are injected into injection wells far below surface.

The Puna Geothermal Venture power plant will produce 25 megawatts, enough electricity to supply 25,000 Big Islanders. When PGV is fully up and running, geothermal energy will supply a significant portion of the island's electricity needs.

###

APR 23 1993
P. 3: 43
RECEIVED

DIVISION OF WATER AND LAND DEVELOPMENT

M: 25 DATE: 10/10 FILE IN: 10/10

INIT:

PLEASE:

REMARKS:

☐ M. TAGOMORI
☐ L. Nanbu
☐ G. Akita
☐ L. Chang
☐ E. Lau
☒ A. Monden
☒ H. Young
☐ T. Kam
☐ G. Miyashiro
☐ D. Lee
☐ A. Yim
☐ R. LOUI
☐ S. Kokubun

☐ See Me
☐ Call
☐ Review & Comment
☐ Take Action
☐ Investigate & Report
☐ Draft Reply
☐ Acknowledge Receipt
☐ Type Draft
☐ Type Final
☐ Xerox ___ copies
☐ File

FOR YOUR:

☐ Approval
☒ Signature
☐ Information

6/92

TO:	INITIAL:	PLEASE:	REMARKS:
-----	----------	---------	----------

FOR YOUR:

_____ M. TAGOMORI
 _____ L. Nanbu
 _____ L. CHANG
 _____ E. LAU
 _____ A. Monden
 _____ G. Miyashiro
 _____ D. Lee

_____ Approval
 _____ Signature
 _____ Information
 _____ File

_____ REQUESTED BY:

REQUESTED BY:

DATE _____

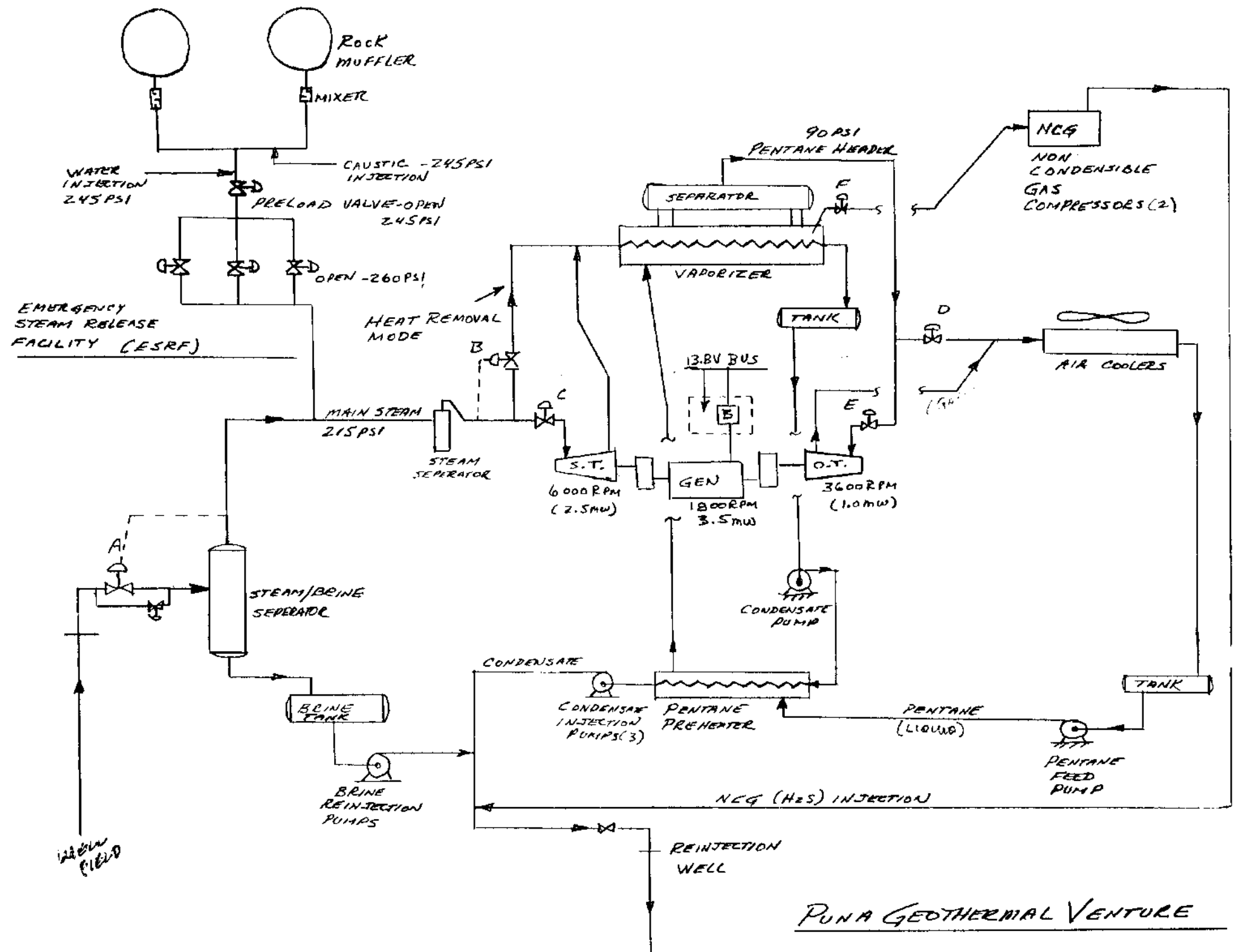
TO: FILES

FROM: Hiram Young

SUBJECT: PGV Field Trip March 30, 1993

On March 30, 1993, a walk-through inspection of the power plant was conducted by Stone & Webster Engineering(S & W) on behalf of Puna Geothermal (PGV). Stone & Webster Engineering has been retained by PGV to inspect the power plant and piping system and review its technical merits. It should be mentioned at this point that S & W is also a consultant to Credit Suisse who financed the project. S & W will be giving a presentation of their inspection and findings and recommendations at a meeting scheduled for Wednesday, March 31, 1993.

The walk-through of the power plant focused on the changes which were made to the Noncompressible Gas(NCG) units, Emergency Steam Release Facility(ESRF) and H₂S monitoring system. These systems were the problematic areas which lead to the shutdown of the power plant in August 1992. The primary problem was the inability to mediate the H₂S to meet Department of Health's requirements. S&W stated there was no major problem with the power modules as long as PGV follows the maintenance procedures set by the manufactures.



FROM: from DATE: _____ FILE IN: _____

TO: INITIAL: PLEASE: REMARKS:

_____	_____	G. AKITA	_____	See Me	<i>No stuff -</i>
_____	_____	L. Choo	_____	Call	
_____	_____	T. Kam	_____	Review & Comment	
_____	_____	H. Young	_____	Take Action	
_____	_____	S. Yong	_____	Investigate & Report	
_____	_____	C.P. Chang	_____	Draft Reply	
_____	_____	Y.F. Xu	_____	Acknowledge Receipt	
_____	_____	T. Nakama	_____	Type Draft	
_____	_____	J. Swift	_____	Type Final	
_____	_____	J. Florez	_____	Xerox _____ copies	

_____	_____	M. TAGOMORI
_____	_____	L. Nanbu
_____	_____	L. CHANG
_____	_____	E. LAU
_____	_____	A. Monden
_____	_____	G. Miyashiro
_____	_____	D. Lee

FOR YOUR:

_____	Approval
_____	Signature
_____	Information
_____	File

REQUESTED BY:

DATE

file w/ PTO

RECEIVED

92 OCT 23 P 1: 37

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

DIV. OF WATER &
LAND DEVELOPMENT

October 20, 1992

92-A818
File #834

Mr. Steven E. Morris
Vice President and General Manager
Puna Geothermal Venture
P.O. Box 30
Pahoa, Hawaii 96778

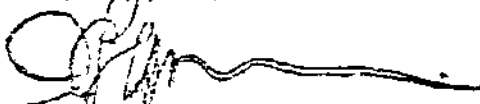
Dear Mr. Morris:

Subject: Permit to Operate (PTO) No. P-834-1413
Application for PTO No. P-834-1304
Expiration Date: October 1, 1993

A Permit to Operate in accordance with Hawaii Administrative Rules, Title 11, Chapter 60, is hereby issued to Puna Geothermal Venture for the operation of a 25 MW Geothermal Power Plant located at 14-3860 Kapoho-Pahoa Road, Pahoa, Hawaii. The issuance of this permit is based on the information that you submitted with your application dated November 22, 1991, all additional information submitted as part of the application and the subsequent site inspections conducted on July 24, 1992 and October 10, 1992.

The Permit to Operate is issued subject to the conditions set forth in Attachments I and II.

Very truly yours,



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

NH/sk-CAB
Enclosures
cc: DHSA, Hawaii

**ATTACHMENT I. STANDARD CONDITIONS OF PERMIT TO OPERATE, NO. P-834-1413
APPLICATION NO. P-834-1304
POWER PLANT**

This permit is granted in accordance with the State of Hawaii Administrative Rules, Title 11, Chapter 60, Air Pollution Control, and is subject to the following standard conditions:

1. This permit is non-transferable from person to person, from place to place, or from one piece of equipment to another.
2. This permit does not absolve the holder from the responsibility for the consequences of non-compliance with all Rules, Regulations, and Orders of the Department and, furthermore, any violation of the Rules and Regulations may be cause for the suspension or revocation of this permit.
3. This permit, (a) shall not in any manner affect the title to the premises upon which the equipment is to be located, (b) does not release the permittee from any liability for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the proposed equipment, (c) does not release the permittee from compliance with other applicable statutes of the State of Hawaii, or with applicable local laws, regulations, or ordinances, and (d) in no manner implies or suggests that the Department, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to personal injury or property damage caused by, resulting from or arising out of the design, installation, maintenance, or operation of the proposed equipment.
4. The permanent discontinuance or dismantlement of the equipment authorized by this permit shall be reported in writing to the Director by the permittee within thirty (30) days of the discontinuance or dismantlement.
5. Application for permit renewal shall be submitted sixty (60) days before the expiration date to the Environmental Management Division, Attention: Clean Air Branch, State Department of Health, P. O. Box 3378, Honolulu, Hawaii 96801.

**ATTACHMENT II. SPECIAL CONDITIONS OF AUTHORITY TO CONSTRUCT, NO. A-834-1413
APPLICATION NO. A-834-1304
POWER PLANT**

In addition to the standard conditions of the Authority to Construct, this permit is subject to the following special conditions:

1. The permit conditions prescribed herein may at any time be revised by the Department of Health to conform to any Federal or State promulgated air quality rules on geothermal facilities.
2. The total fugitive pentane emissions from all ten (10) Ormat Energy Converter (OEC) modules shall not exceed 0.4 lbs/hr or exceed 1000 ppm from any seal, flange, valve or any other fugitive emission point when measured from a distance of two (2) inches from the point. The permittee shall perform measurements on all fugitive pentane emission points, as a minimum, on a weekly basis. The permittee shall take immediate corrective actions upon identifying any pentane emissions in excess of 1000 ppm when measured from a distance of two (2) inches.
3. The total pentane emissions from all ten (10) OEC modules, including fugitive pentane emissions shall not exceed 200 pounds per day.
4. After initial startup of the power plant, no major maintenance or overhaul resulting in the purging of the OEC modules shall be allowed without the installation and operation of a vapor recovery unit with a minimum recovery efficiency of 95.0 percent. Upon the installation of any vapor recovery unit, all purging of noncondensable gases or the release of pentane from the OEC modules shall be directed through the vapor recovery unit.
5. Records shall be maintained on all incidents resulting in the release of pentane to the atmosphere, including the purging of noncondensable gases from the OEC modules, the maintenance and overhaul of the OEC modules, equipment malfunctions, utilization of the vapor recovery unit, and all fugitive emission measurements greater than 1000 ppm and the corrective measures taken. In addition to estimating the amount of pentane emitted from each incident, the records shall also include information on the date and amount of pentane received or transferred to and from each OEC module. The records and any supporting information, including any assumptions and calculations used to determine the amount of pentane emissions, shall be submitted to the Department of Health on a quarterly basis.
6. The geothermal fluids injection system shall include at least two (2) geothermal injection wells, a spare fluid pump, and a spare noncondensable gas compressor. The backup injection system equipment shall be maintained in good operating condition at all times and shall be utilized immediately upon identification of any malfunctioning equipment.

In the event of an equipment malfunction or upset condition which results in a situation where the two geothermal injection wells are not capable of handling the total geothermal resource being utilized by the power plant, the power plant production and the associated geothermal resource being used shall be immediately reduced accordingly to the handling capacity of the two injection wells.
7. The diesel engine generator and the diesel firewater pump shall be fired only on diesel fuel oil no. 2 with a maximum sulfur content not to exceed 0.5% by weight.

8. The total amount of diesel fuel fired in the diesel engine generator and diesel firewater pump shall not exceed 12,000 gallons on any rolling twelve (12) month period. Records on the amount of diesel fuel fired in the diesel engine generator and diesel firewater pump shall be maintained on a monthly basis. The records shall be submitted to the Department of Health within forty-five (45) days after the end of each calendar year.
9. The unabated cleanout of a pipeline utilizing the geothermal steam is prohibited. If the geothermal steam is used in the pipeline cleanout, the geothermal steam shall be directed through the hydrogen sulfide abatement equipment. The permittee shall utilize a cyclonic muffler or other equivalent device designed to minimize particulate and brine aerosol emissions, and direct venting into the vertical direction. In no case shall any abated pipeline cleanout coincide with any abated well cleanout, well drilling which opens new hole, or well flow testing operations, or commence if the emergency steam release facility is being utilized by the power plant. If emergency steam releases from the power plant occur during any pipeline cleanout, the pipeline cleanout operations shall be terminated as quickly as practical. Prior to any pipeline cleanout, the Department of Health must be informed in writing, a minimum of two (2) days prior to commencement and so concur. The public shall be notified a minimum of 24-hours in advance by notices in the newspapers of general circulation in Hawaii County. In addition, the permittee shall make a reasonable effort to notify all residents living within 3,500 feet of the permittee's property boundary a minimum of 24-hours in advance of any pipeline cleanout. Each pipeline cleanout shall not exceed 20 minutes in duration and shall occur only in the daytime.
10. The permittee shall install, operate, and maintain a minimum of three (3) meteorological monitoring stations, three (3) air quality monitoring stations for hydrogen sulfide and one (1) PM₁₀ monitor. The monitoring stations required in any permit for the wellfield may be used towards fulfilling this requirement.

Prior to the commencement of plant operations, the permittee shall submit the siting of the air quality and meteorological monitoring stations for the Department of Health's approval. The permittee shall include with the siting locations a list of the monitoring equipment installed at each station and any anticipated modifications. As a minimum, two ambient air quality monitoring stations for hydrogen sulfide and one meteorological monitoring station shall be fully operational prior to commencement of plant operations. All three meteorological monitoring stations, three ambient air quality monitoring stations for hydrogen sulfide and the one PM₁₀ monitor shall be installed and fully operational on or before August 15, 1992. The permittee shall maintain a file of all measurements, including the monitoring system performance evaluations; calibration checks; and adjustments and maintenance performed on the system or devices. The measured data shall meet U.S. EPA capture requirements and quality assurance guidelines. As a minimum, a quality assurance check shall be conducted on each monitoring station every-other-day.

The air quality monitors shall be equipped with an alarm or acceptable equivalent system that is designed to page and notify the permittee or a governmental agency on a twenty-four hour basis of ambient hydrogen sulfide concentrations in excess of 10 ppb on a twenty-four hour average and 25 ppb on a one-hour average. The permittee shall

immediately notify the Department of Health and the Hilo District Health Office of any exceedance above 10 ppb on a twenty-four hour rolling average and 25 ppb on a one-hour average.

Two (2) copies of the data file in a format acceptable to the Department of Health shall be submitted on an annual basis. The data file shall be in a format that can be utilized by a personal computer for ready extraction of data. The air quality and meteorological data shall be summarized and submitted monthly in writing to the Department of Health. Additional information on the monitoring stations and on the data collected shall be submitted upon request by the Department of Health.

11. At the discretion of the Director of Health the permittee may at any time be required to install, operate, and maintain additional air quality and meteorological monitoring stations, but only after due notice to the permittee on the reasons for the proposed change and providing the permittee an opportunity to respond within seven (7) days.
12. All access roads into the permittee's property shall be limited to authorized personnel only. Twenty-four hour staffing shall be in place during plant operations.
13. The emergency steam release facility, consisting of two (2) rock mufflers, chemical storage tank(s) and associated equipment, shall be installed, maintained, and be fully operational prior to commencement of plant operations. Each rock muffler shall be capable of handling a steam flow rate of 570,000 lbs/hr or 100 percent of the total power plant steam flow, whichever is greater.
14. The emergency steam release facility shall only be utilized under one or more of the following conditions:
 - a) Failure of the electrical transmission lines out of the power plant or some incident that tripped all the steam turbines and OEC units;
 - b) Complete upset of the geothermal fluid injection system;
 - c) Pressure in the steam lines exceeds safety design set points; or
 - d) Any upset situation which would otherwise result in a release of unabated steam to the atmosphere.
15. The emergency steam release facility shall be equipped and maintained at all times with a minimum three-day operating storage capacity of sodium hydroxide. The chemical abatement system shall operate automatically when steam is released through the rock muffler(s). The hydrogen sulfide concentrations shall be continuously monitored both downstream and upstream of the chemical injection point. A sodium hydroxide treatment mole ratio of 4 to 1 (NaOH/H₂S) will be used initially and the abatement efficiency monitored. The optimum mole ratios will be determined during the hydrogen sulfide abatement operations.

Upon utilizing the emergency steam release facility, the permittee shall take immediate action to the extent practical to reduce the steam flow and perform the necessary corrective actions. The steam flow rate shall be reduced, as a minimum, to 50 percent of full flow within four (4) hours after initiating the use of the emergency steam release facility.

16. The permittee shall immediately notify the Department of Health of any operational upsets, equipment failure or malfunction which would allow an increase in the emissions of hydrogen sulfide, particulate matter or isopentane. The permittee shall apply best available control technology for the air emissions and take immediate steps to correct the condition. The permittee shall take appropriate action in accordance with Special Condition Nos. 18 and 19 if the hydrogen sulfide ambient concentration exceeds the specified limits in Special Condition Nos. 18 and 19. In addition, a written report shall be submitted to the Department of Health within five (5) days of the occurrence. The report shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the estimated resultant emissions, time and duration of the event, and the methods utilized to restore normal operations. Compliance with this notification provision shall not excuse or otherwise constitute a defense for any violation(s) of this permit, law, rule or order which results from the operational upset, equipment failure or malfunction.
17. The permittee shall maintain a 24-hour telephone service to accept calls concerning this Permit to Operate. This telephone number must be fully operational prior to commencement of construction.
18. The operation of the 25 MW geothermal power plant during periods of operational upsets, equipment failure or malfunctions shall not cause or contribute to an exceedance of the hydrogen sulfide ambient level of 10 ppb on a twenty-four-hour rolling average or 25 ppb on a one-hour average at or beyond the project boundary. Should any of the approved air quality monitoring stations indicate a hydrogen sulfide ambient concentration greater than 10 ppb on a twenty-four-hour rolling average or 25 ppb on a one-hour average, the permittee shall take immediate action terminating, within two (2) hours of the exceedance, all power plant activities not associated with normal power plant operations and contributing to hydrogen sulfide emissions. Following the reduction in project emissions, if the monitoring stations still indicate hydrogen sulfide ambient concentrations in excess of 10 ppb on a twenty-four-hour rolling average or 25 ppb on a one-hour average, the permittee shall curtail the power plant operations, unless the permittee can conclusively show to the Department of Health that the project operations and emissions are not contributing any impact to the monitoring site. If the hydrogen sulfide ambient concentration is below 10 ppb on a twenty-four-hour rolling average and 25 ppb on a one-hour average after the project emissions have been reduced, the permittee shall maintain the emissions at this reduced level until such time the Department of Health is assured that the resumption of full activity shall not result in another exceedance of the hydrogen sulfide ambient level of 10 ppb on a twenty-four-hour rolling average or 25 ppb on a one-hour average.

The permittee shall submit a written report to the Department of Health within five (5) days of the occurrence. The report shall include the date, time and duration of the exceedance, the estimated project emissions and any other emission sources that may have contributed to the exceedance, and all corrective measures and actions taken to reduce project emissions to a minimum. Compliance with this notification provision shall not excuse or otherwise constitute a defense for any violation(s) of this permit, law, rule or order.

19. During those periods of normal power plant and normal wellfield operations, the combined emissions of hydrogen sulfide from the 25 MW geothermal power plant (A-834) and associated wellfield (A-833) shall not cause an increase in the hydrogen sulfide ambient concentration in excess of 5 ppb (above background) and at no time exceed 10 ppb (including background) on a one-hour average at or beyond the project boundary as monitored at any of the approved air quality monitoring stations and so identified in the monthly monitoring report. As used in this context, a normal power plant operation is a power plant which is operating without any pipeline cleanouts, upsets, equipment failure, malfunction or which is otherwise operating normally. A normal wellfield operation is a wellfield in which no well drilling, flow testing, or abated well cleanouts are occurring and where the completed wells are not experiencing any equipment failure or malfunction and are either shut-in, being used as an injection well, or connected to a sound geothermal resource distribution system.
20. During normal power plant operations, the hydrogen sulfide emissions from the 25 MW geothermal power plant shall not exceed one pound per hour (one-hour average). During periods of malfunction or regularly scheduled maintenance, best available control technology shall be applied for the hydrogen sulfide emissions.
21. The Department of Health may at any time with reasonable cause, request the permittee to install, operate, and maintain emission monitors to continuously measure and record the hydrogen sulfide and isopentane emissions at any specified location in the power plant.
22. Prior to the commencement of any abated pipeline cleanout utilizing the geothermal steam, the permittee shall submit to, and receive the approval of, the Department of Health a sampling and testing protocol, identifying the analytical procedures and methodologies to be used and the constituents to be measured, which shall seek to physically and chemically characterize the particulate and aerosol emissions and corresponding ambient concentration from these operations. Each collected sample shall be submitted to a qualified laboratory for analyses within five (5) days after the sample is collected. The permittee shall submit a copy of the results of the analyses to the Department of Health within five (5) days after receiving the results from the qualified laboratory. The Department of Health may at any time require the permittee to analyze for additional constituents or perform more frequent testing.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

RECEIVED

DAILY REPORT NOV 5 A 8:43

NOVEMBER 1, 1992 DIV. OF WATER & LAND DEVELOPMENT

Well No. Pawa Pump - Summary Contractor FDV

DESCRIPTION OF ACTIVITIES

Produced 9 M.W. - ALL NIGHT -
At 11:00 A.M. PRODUCING 10.7 M.W. WITH 5 UNITS. WITH
FLOW OF 240,000 #/HR. OF STEAM FROM 125.8
At 3:50 P.M. PRODUCING 9 M.W. WITH 5 UNITS. WITH
FLOW OF 216,000 #/HR. OF STEAM FROM 125.8

Weather RAIN

Submitted by Eli Poulson

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 31, 1992

Well No. POWER PLANT Contractor PLC

DESCRIPTION OF ACTIVITIES

At 9:10 AM. PRODUCING 9.4 M.W. WITH 4 UNITS - WITH
215,000 #/HR OF STEAM FROM KS-8. LOW GAS EMISSION THROUGH
OUT THE NIGHT - MOST FROM MCG UNITS - EXPERTS TO ARRIVE
TODAY TO WORK ON MCG UNITS.
At 1:40 P.M. PRODUCING 8.7 M.W. WITH 4 UNITS - WITH FLOW
OF 195,000 #/HR OF STEAM FROM KS-8
At 4:45 PM. PRODUCING 9 M.W. WITH 4 UNITS - WITH FLOW OF 204,000 #/HR
STEAM FROM KS-8

Weather RAINY

Submitted by Lin Tule

DEPARTMENT OF LAND AND NATURAL RESOURCES
DIV. OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 30, 1992

Well No. Power Plant Contractor PGV

DESCRIPTION OF ACTIVITIES

At 7:45 A.M. PRODUCING 6.5 MW WITH 3 UNITS - FLOW OF
150,000 #/HR STEAM FROM KS-8
At 12:20 P.M. PRODUCING 7.5 MW WITH 3 UNITS - FLOW OF
174,000 #/HR STEAM FROM KS-8
At 3:55 P.M. PRODUCING 7.5 MW. WITH 3 UNITS - FLOW OF
174,000 #/HR STEAM FROM KS-8
PLANNING TO STEP UP TO 10 MW SILENTLY.

Weather POCY

Submitted by E. Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 29, 1982

Well No. POWER PLANT Contractor PLV

DESCRIPTION OF ACTIVITIES

At 8:00 A.M. PRODUCING 6.3 M.W. WITH 154,000 #/HR STRAIN
FROM KS-8

At 1:00 P.M. THIS MORNING - H₂S EMISSION FROM NCG UNITS - WITH WINDS -
INSTRUMENT FOR SILVER PLATED - WITH SPIKE OF 146 PPM MEASURED BY DOH -
SHUT DOWN NCG UNIT - AND SWITCHED OVER TO 2ND UNIT

At 12:30 P.M. PRODUCING 6.3 M.W. WITH 3 UNITS - WITH 153,000 #/HR
STRAIN FROM KS-8

At 3:00 P.M. PRODUCING 4 M.W. WITH 2 UNITS - WITH 124,000 #/HR
STRAIN FROM KS-8

At 6:00 P.M. PRODUCING 7 M.W. WITH 165,000 #/HR STRAIN
FROM KS-8

Weather RAIN

Submitted by Eric Parker

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 28, 1992

Well No. POWER PLANT Contractor P60

DESCRIPTION OF ACTIVITIES

At 8:15 AM. PRODUCING 6.5 M.W. WITH 3 UNITS - Flow from KC-8

At 146,000 #/HR OF STEAM.

At 12:30 PM. PRODUCING 5.5 M.W. WITH 3 UNITS - Flow from KC-8

At 138,000 #/HR OF STEAM.

At 3:00 P.M. PRODUCING 6 M.W. WITH 3 UNITS - Flow from KC-8

At 152,000 #/HR OF STEAM.

At 5:45 PM PRODUCING 6.5 M.W. WITH 3 UNITS - Flow from KC-8

At 160,000 #/HR OF STEAM.

At 5:00 P.M. WHILE DOING PAPERS ON #23 (140 GENERATING) A

SAME LOWARD WATER AND H₂S GAS - DOH RECORDED A HIGH OF 34 PPM

AT HCPA - STATIONARY STATION RECORDED LEVEL OVER 10-15 MINUTES -

THAN LEVELS WENT BACK TO LOW LEVELS - MITIGATED BY ABATING

WATER WITH CANSOL -

34 PPM

Weather RAINY

Submitted by

Jim Pugh

OFFICE OF THE DIRECTOR
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 27, 1992

Well No. Power Plant

Contractor PLU

DESCRIPTION OF ACTIVITIES

At 6:00 AM Producing 4 M.W. with 125,000 #/hr of Steam
from KS-8. Low H₂S Readings Around Perimeter of Project.

At 7:40 AM Producing 4 M.W. with 2 units with 125,000 #/hr
of Steam from KS-8

At 3:35 PM Producing 5.5 M.W. with 3 units with 136,000 #/hr
of Steam from KS-8

Weather Partly

Submitted by E. A. Pule

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 26, 1992

Well No. Pouaka Point

Contractor P&G

DESCRIPTION OF ACTIVITIES

At 7:00 P.M. Producing 5 m.w. on JHK L-1412 with 3 units
127,000 #/hr of steam from K-8

At 1:00 P.M. Producing 3 m.w. with 2 units - 120,000 #/hr
of steam from K-8

At 3:00 P.M. Producing 3 m.w. with unit #14 on L-1412

At 5:25 P.M. Producing 5 m.w. with 140,000 #/hr of steam
from K-8

Weather Clear

Submitted by Jim Carter

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 25, 1982

Well No. Power Pump Contractor P60

DESCRIPTION OF ACTIVITIES

At 10:00 A.M. Producing 5 m.w. with 2 hrs. During
The night produced 3 m.w. to the City and At 8:00 A.M.
Increased to 5 m.w. - At 2:00 P.M. Producing 5 m.w.
With 125 M³/HR steam flow from 125-8

Weather Good

Submitted by [Signature]

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

October 24, 1992

Well No. Lower Puharua Contractor P.O.

DESCRIPTION OF ACTIVITIES

At 7:00 A.M. Producing 1.5 m.w. At 9:00 P.M. Last
NIGHT STopped Producing 1.5 m.w. With One #73 on
The South Bank - Flow from KS-8 at 160,000 #/HR
of Stream.

Weather Good

Submitted by E.E. Puharua