

GEOTHERMAL WELL FIELD INSPECTION REPORT COMMERCIAL

14/07/1999

Name: Richard Bos.
Address: 96 Pukuatua St.
Rotorua

Bore No.: RR875
Date: 24/08/1998

Well Type: Production**Well Status:** Shut

Valves:	Valve Kind	Diameter (in)	Valve Make	Valve Type	Class	Condition
	Side	3.000	AUDCO	PL	150.00	G
	Side	3.000	AUDCO	PL	150.00	G
	Side	1.250	KITZ	GA	200.00	G

Max. Well Temp: 146 Deg C**Depth:** 137 m**Wellhead Pressure:** 0 MPa.g**Gas Sign:** No**Annulus Cement:** Good**Annulus Vent 1:** N/A**Wellhead Paintwork:** Good**Annulus Vent 2:** Gas / Steam / Dry**Bleedline:** Satisfactory / Unsatisfactory / NA**Cellar Gas:** None**Access To Well:** Good**Water On Site:** No**Well No Displayed:** Yes**Photo:** No

General Comments: Not in use - contractors should be made aware of potential hazards while working around geothermal wellhead area.

Remedial Work: Nil.**Inspector:** John Molloy

GEOHERMAL WELL FIELD INSPECTION REPORT COMMERCIAL

14/07/1999

Name: Richard Bos.
Address: 96 Pukuatua St.
Rotorua

Bore No.: RR875
Date: 24/08/1998

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Well Status: Shut

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	Side	3.000	AUDCO	PL	150.00	G
	Side	3.000	AUDCO	PL	150.00	G
	Side	1.250	KITZ	GA	200.00	G

Max. Well Temp: 146 Deg C

Depth: 137 m

Wellhead Pressure: 0 MPa.g

Gas Sign: No

Annulus Cement: Good

Annulus Vent 1: N/A

Wellhead Paintwork: Good

Annulus Vent 2: Gas / Steam / Dry

Bleedline: Satisfactory / Unsatisfactory / NA

Cellar Gas: None

Access To Well: Good

Water On Site: No

Well No Displayed: Yes

Photo: No

General Comments: Not in use - contractors should be made aware of potential hazards while working around geothermal wellhead area.

Remedial Work: Nil.

Inspector: John Molloy



GEOHERMAL WELL FIELD INSPECTION REPORT COMMERCIAL

24/08/1998

Name: Shieff Angland
Address: P.O. Box 2180
Auckland.

Bore No.: RR875
Date: 24/08/1998

Well Type: Production

Well Status: Shut

Valves:	Valve Kind	Diameter (in)	Valve Make	Valve Type	Class	Condition
	Side	3.000	AUDCO	PL	150.00	G
	Side	3.000	AUDCO	PL	150.00	G
	Side	1.250	KITZ	GA	200.00	G

Max. Well Temp: 146 Deg C

Depth: 137 m

Wellhead Pressure: 0 MPa.g

Gas Sign: No

Annulus Cement: Good

Annulus Vent 1: N/A

Wellhead Paintwork: Good

Annulus Vent 2: Gas / Steam / Dry

Bleedline: Satisfactory / Unsatisfactory / NA

Cellar Gas: None

Access To Well: Good

Water On Site: No

Well No Displayed: Yes

Photo: No

General Comments: Not in use - contractors should be made aware of potential hazards while working around geothermal wellhead area.

Remedial Work: Nil.

Inspector: John Molloy

GEOHEMAL WELL FIELD INSPECTION REPORT

NAME Kingston Shiff England

BORE NO RR875

ADDRESS 96 Puhautua St Rotorua

DATE 24-8-98

Bore State: ☒ Shut - NOT IN USE
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

Condition
Diameter Make Type Rating (Good/Fair/Poor) Locked

Valves: Master:

Other:

Other:

3"	AUDCO	PL	150	UNPLUGGED	
3"	AUDCO	PL	150	UNPLUGGED	
	KITZ	GA	200	ACCESS/GAUGE	

Wellhead Pressure: _____

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/Fair/Poor

Gas/Steam/Dry
Cellar Vent 1: ☐
Vent 2: IV/A

Annulus Cement: Good/Fair/Poor

Cellar Gas: Strong/Slight/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No... Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: Not in use at this time - contractors should be made aware of hazards while working around geothermal bore area.

Remedial Work: None

Inspector: [Signature]

MINING INSPECTION

ENERGY & RESOURCES DIVISION

Hochstetter House
18 Rostrevor Street
P.O. Box 9441 Hamilton North
New Zealand
Telephone (07) 838 3515
Fax (07) 838 3517

COMMERCE

MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

GEOTHERMAL WELL FIELD INSPECTION REPORT DOMESTIC

09/10/1997

Name: J Kingston Shieff Angland

Bore No.: RR875

Address: 96 Pukuatua Street
Rotorua

Date: 08/10/1997

Bore Location: 96 Pukuatua Street Rotorua

Bore Type: Production

Bore Status: Shut

Valves:	Valve Kind	Diameter (in)	Valve Make	Valve Type	Class	Condition
	Side	3.000	AUDCO	PL	150.00	G
	Side	3.000	AUDCO	PL	150.00	G
	Side	1.250	KITZ	GA	200.00	G

Max. Bore Temp: 146 Deg C

Depth: 137 m

Wellhead Pressure: 0 MPa.g

Gas Sign: No

Annulus Cement: Good

Cellar Gas: None

Wellhead Paintwork: Good

Access To Bore: Good

Water On Site: No

Bore No. Displayed: Yes

Photo: Yes

General Comments: Satisfactory at this time.

Remedial Work: Nil.

Inspector: John Molloy

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Kingstone Shift England
ADDRESS 96 Puhuetua St. Rotorua

BORE NO RR875
DATE 8-10-97

Bore State: ☒ Shut - NOT CONNECTED
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

	Diameter	Make	Type	Rating	Condition (Good/ Fair / Poor)	Locked
Valves: Master:						
Other:						
Other:	2x3"	AUDCO	PL	150	UNPLUGGED	
	1 1/4"	KITZ	GA	200	ACCRBS / GAUSE	

Wellhead Pressure: TVOT READING

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Cellar Vent 1: Gas/Steam/Dry
Vent 2: N/A

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: Strong/~~Slight~~/~~None~~

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☒
No ☐

General Comments: Satisfactory

Remedial Work: Nil

Inspector: [Signature]



MINING INSPECTION

ENERGY & RESOURCES
DIVISION

Hochstetter House
18 Rostrevor Street
P.O. Box 9441 Hamilton North
New Zealand
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Fax (07) 838 3517



GEOHERMAL WELL FIELD INSPECTION REPORT DOMESTIC

01/11/1996

Name: J Kingston Shieff Angland

Bore No.: RR875

Address: 96 Pukuatua Street
Rotorua

Date: 26/10/1996

Bore Location: 96 Pukuatua Street Rotorua

Bore Type: Production

Bore Status: Shut

Valves:	Valve Kind	Diameter (in)	Valve Make	Valve Type	Class	Condition
	Side	3.000	AUDCO	PL	150.00	G
	Side	3.000	AUDCO	PL	150.00	G
	Side	1.250	KITZ	GA	200.00	G

Max. Bore Temp: 146 Deg C

Depth: 137 m

Wellhead Pressure: 0 MPa.g

Gas Sign: No

Annulus Cement: Good

Cellar Gas: None

Wellhead Paintwork: Good

Access To Bore: Good

Water On Site: No

Bore No. Displayed: Yes

Photo: No

General Comments: Similar condition as last inspection - satisfactory at this time.

Remedial Work: Nil

Inspector: John Molloy

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Aulton Kingston
ADDRESS 96 Rukunui St. Rotorua

BORE NO RR 875
DATE 26-10-96

Bore State: ☒ Shut NOT CONNECTED
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

Condition
Diameter Make Type Rating (Good/~~Fair~~/~~Poor~~) Locked

Valves: Master:

Other:

Other:

2x3"	AUDCO	TR	150	UNPLUGGED	
1 1/4"	KITZ	GATE	200	ACCESS/GAUGE	

Wellhead Pressure: NOT READING

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Gas/Steam/Dry
Cellar Vent 1: ☐
Vent 2: N/A

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: ~~Strong~~/~~Slight~~/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☐
on Site: No ☒

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: Similar condition as last inspection -
Satisfactory at this time

Remedial Work: _____

Inspector: [Signature]

MINING INSPECTION

**ENERGY & RESOURCES
DIVISION**

Hochstetter House
18 Rostrevor Street
P.O. Box 9441 Hamilton North
New Zealand
Telephone (07) 838 3515
Fax (07) 838 3517



16 September 1996

Shieff Angland
Barristers and Solicitors
PO Box 2180
AUCKLAND

Attention: Mr J Kingston

GEOTHERMAL LEVY - 1996

I have enclosed a statement for a geothermal levy for 1996 for geothermal bore **RR875** located at 96 Pukuatua Street, Rotorua.

All correspondence for this geothermal bore has been redirected from a previous address at PO Box 6448 Auckland.

If you have any questions regarding this statement please do not hesitate to contact me at the Hamilton office.

Yours sincerely

Stephen A Ovens
Senior Inspector - Petroleum and Geothermal



MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

Head Office, Ministry of Commerce Building, 33 Bowen Street, Wellington, New Zealand.
P.O. Box 1473, Telephone (04) 472 0030, Cables: TRADBORD, FAX (04) 474 2892

STATEMENT

MINING INSPECTION

Shieff Angland
PO Box 2180
AUCKLAND
Attention: Mr J Kingston

NZ

DATE

31/08/1996

CUSTOMER ID

ALDEKI

DOCUMENT REF.

4512

DATE	TRANSACTION	CODE	DEBIT	CREDIT	BALANCE
11/06/1996	MIN01451	IN	448.82		448.82
Geothermal	Levy				

PAYMENT IS NOW DUE

TOTAL AMOUNT DUE \$

448.82

120 DAYS	90 DAYS	60 DAYS	30 DAYS	CURRENT
0.00	0.00	448.82	0.00	0.00
180 DAYS	150 DAYS			
0.00	0.00			

GEOTHERMAL WELL FIELD INSPECTION REPORT

COMMERCIAL

30/11/1995

Name: James Larkin & 3 Others

Bore No.: RR875

Address: 96 Pukuatua Street
Rotorua

Date: 21/09/1995

Well Type: Production

Well Status: Shut

Valves:	Valve Type	Diameter (in)	Valve Make	Valve Type	Rating (mpa)	Condition
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This bore has no valve inspection record for 21/09/1995

Wellhead Pressure: 0

Gas Sign: No

Annulus Cement: Good

Annulus Vent 1: N/A

Wellhead Paintwork: Good

Annulus Vent 2: Gas / Steam / Dry

Bleedline: Satisfactory / Unsatisfactory / NA

Cellar Gas: None

Access To Well: Good

Water On Site: Yes

Well No Displayed: Yes

Photo: Yes

General Comments: Similar condition as last inspection - satisfactory at this time
Place has been cleared for new development

Remedial Work: Nil

Inspector: John Molloy

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston

BORE NO RR875

ADDRESS 96 Pukunatua Ist Rotorua

DATE 21-9-95

Bore State: ☒ Shut & DISCONNECTED
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

	Diameter	Make	Type	Rating	Condition (Good/ Fair / Poor)	Locked
Valves: Master:						
Other:						
Other:	2x3"	AUDCO	TC	150	UNPLUGGED	
	1 1/4"	KITZ	GATE	200	ACCESS/GAUGE	

Wellhead Pressure: NOT READING

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Cellar Vent 1: Gas/Steam/Dry
Vent 2: N/A

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: ~~Strong~~/~~Slight~~/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☒
No ☐

General Comments: Similar condition as last inspection -
satisfactory at this time. - place has been

Remedial Work: cleared for new development.

Inspector: [Signature]



MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517



RR875

GEOHERMAL WELL FIELD INSPECTION REPORT

28 September 1994

NAME Alderton Kingston & Co BORE NO RR875
ADDRESS P O Box 6448 DATE 30 May 94
Auckland

Alderton Kingston & Co
P O Box 6448
AUCKLAND

BORE LOCATION: 96 Pukuatua Street, Rotorua
BORE STATE: Shut
BORE TYPE: Direct Discharge

VALVES:	Diameter (ins)	Type	Rating	Condition
Make				
AUDCO	3.000	PL	150.00	Good
AUDCO	3.000	PL	150.00	Good
KITZ	1.250	GA	200.00	Good

MAX BORE TEMP:	64.00	Deg C	DEPTH:	136.63	m
WELLHEAD PRESSURE	0.21	MPag	GAS SIGN:	No	
WELLHEAD PAINTWORK:	Good		CELLAR VENT:	N/A	
ANNULUS CEMENT:	Good		CELLAR GAS:	NONE	
ACCESS TO BORE:	Good		WATER ON SITE:	Yes	
BORE NO DISPLAYED:	Yes		PHOTO:	No	

COMMENTS: NO CHANGE SINCE LAST INSPECTION, SATISFACTORY CONDITION.

REMEDIAL WORK:

INSPECTOR: J MOLLOY

Dear Sir/Madam

GEOHERMAL BORE INSPECTION 1994 - BORE RR875

An annual inspection of geothermal bores in Rotorua has been carried out by a Geothermal Inspector during the current calendar year to assess the condition of the bores and their compliance with acceptable health and safety standards.

When inspected geothermal bore RR875 was found to be in a satisfactory condition.

A copy of the Geothermal Inspector's report is attached for your review.

If you have any questions regarding the safety of your bore please do not hesitate to contact me at Rotorua phone (07) 346 0797.

Yours sincerely

J Molloy
Petroleum & Geothermal Drilling Inspector

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS 96 Pukunatua St. Rotorua

BORE NO RR 875
DATE 30-5-94

Bore State: ☒ Shut & DISCONNECTED
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

	Diameter	Make	Type	Rating	Condition (Good/ Fair / Poor)	Locked
Valves: Master:						
Other:	2 x 3"	AUDCO	TC	150	(UNPLUGGED)	
Other:	1 1/4"	KITZ	GATE	200	ACCESS/GAUGE	

Wellhead Pressure: NOT READING

Gas Sign: Yes ☐
No ☐

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Cellar Vent 1: Gas/Steam/Dry
Vent 2: Gas/Steam/Dry

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: ~~Strong~~/~~Slight~~/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: No change - satisfactory at this time

Remedial Work: _____

Inspector: [Signature]

[Signature]

**MINING INSPECTION
ENERGY & RESOURCES
DIVISION**

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517



27 June 1994

Dear Boreowner

ROTORUA GEOTHERMAL BORES - GEOTHERMAL LEVIES 1994

Attached is an invoice (or invoices) for the geothermal levy for your bore covering the period from 1 January to 31 December 1994.

Boreowners are required to pay a levy in terms of Section 20 of the Ministry of Energy (Abolition) Act 1989. The amount of the levy is based upon a prescribed formula incorporating the maximum downhole bore temperature and bore depth. Every owner of a geothermal bore (other than a bore which has been properly abandoned) is required to pay a levy within 30 days after receipt of an invoice. Payments not received within this period are liable for an additional 10% penalty interest.

Following a site inspection a report on your bore will be mailed before 31 July 1994.

If you have any questions regarding the safety of your bore, or the invoice (invoices) enclosed, please do not hesitate to contact the Geothermal Inspector in Rotorua, Mr John Molloy (Ph 07 346 0797); or the Senior Geothermal Inspector in Hamilton, Mr Stephen Ovens (Ph 07 838 3515).

Yours sincerely

Jonathan Leaver
Chief Geothermal Inspector

TAX INVOICE I 002279

MINING INSPECTION

ALDERTON KINGSTON & CO
P O BOX 6448
AUCKLAND
ATTENTION J LARKIN

DOC REF. 4512
DATE 14/Jun/94
CUSTOMER REF. ALDEKI

PLEASE PAY ON THIS INVOICE

ITEM	INT REF	DESCRIPTION OF GOODS AND SERVICES	CODE	VALUE
1	001780	GEOTHERMAL LEVY - RR875 1 JAN - 31 DEC 1994	4512049	398.96
GST				49.87
TOTAL AMOUNT DUE \$				448.83

REMITTANCE ADVICE

OFFICE USE ONLY **I 002279**

CUSTOMER REF: ALDEKI

RECEIPT No. _____

RECEIPT DATE _____

PLEASE RETURN YOUR PAYMENT WITH
THIS REMITTANCE ADVICE TO

ENERGY & RESOURCES DIVISION
MINISTRY OF COMMERCE
P.O. BOX 9441
HAMILTON

TOTAL AMOUNT DUE \$ 448.83

CHEQUE No. _____

TOTAL REMITTED _____

COST CENTRE COPY

**MINING INSPECTION
ENERGY & RESOURCES
DIVISION**

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517



RR875

13 September 1993

Alderton Kingston & Co
P O Box 6448
AUCKLAND

Dear Sir/Madam

GEOTHERMAL BORE INSPECTION 1993 - BORE RR875

An annual inspection of geothermal bores in Rotorua has been carried out by a Geothermal Inspector during the current calendar year to assess the condition of the bores and their compliance with acceptable health and safety standards.

When inspected geothermal bore RR875 was found to be in a satisfactory condition.

A copy of the Geothermal Inspector's report is attached for your review.

If you have any questions regarding the safety of your bore please do not hesitate to contact me at Rotorua phone (07) 346 0797.

Yours sincerely

**J Molloy
Petroleum & Geothermal Drilling Inspector**

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS P O Box 6448
Auckland

BORE NO RR875
DATE 21 Jun 93

BORE LOCATION: 96 Pukuatua Street, Rotorua
BORE STATE: Shut
BORE TYPE: Direct Discharge

VALVES:

Make	Diameter(ins)	Type	Rating	Condition
AUDCO	3.000	PL	150.00	Good
AUDCO	3.000	PL	150.00	Good
KITZ	1.250	GA	200.00	Good

MAX BORE TEMP:	177.00	Deg C	DEPTH:	136.63	m
WELLHEAD PRESSURE	0.21	MPag	GAS SIGN:	No	
WELLHEAD PAINTWORK:	Good		CELLAR VENT:	N/A	
ANNULUS CEMENT:	Good		CELLAR GAS:	NONE	
ACCESS TO BORE:	Good		WATER ON SITE:	Yes	
BORE NO DISPLAYED:	Yes		PHOTO:	Yes	

COMMENTS: WELL MAINTAINED, SATISFACTORY CONDITION.

REMEDIAL WORK:

INSPECTOR: J MOLLOY



MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomangi St,
P.O. Box 1052, Taupo,
New Zealand.
Telephone (074) 80 560
Fax (074) 80 541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tūhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS 96 Pukutua St. Rotorua

BORE NO RR 875
DATE 21-6-93

Bore State: ☒ Shut & DISCONNECTED
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

Condition
Diameter Make Type Rating (Good/Fair/Poor) Locked

Valves: Master:	Diameter	Make	Type	Rating	Condition	Locked
Other:	2x3"	AUDCO	TC	150	DISCHARGE/BLOWDOWN (UNPLUGGED)	
Other:	1 1/4	KITZ	GATE	200		

Wellhead Pressure: NO READING

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Gas/Steam/Dry
Cellar Vent 1: ☐
Vent 2: N/A

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: ~~Strong~~/~~Slight~~/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☒
No ☐

General Comments: Well maintained & satisfactory at this time

Remedial Work: _____

Inspector: [Signature]

[Signature]

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

Hochstetter House,
18 Rostrevor Street,
P.O. Box 9441 Hamilton North,
New Zealand.
Telephone (07) 838 3515
FAX (07) 838 3517



25 June 1993

Dear Boreowner

ROTORUA GEOTHERMAL BORES - GEOTHERMAL LEVIES 1993

During 1993 the inspection of geothermal bores will be extended to include the geothermal heating system (where applicable) to assess the condition of the bore, the pipework and plant, and to determine compliance with acceptable health and safety standards.

Boreowners are required to pay a levy in terms of Section 20 of the Ministry of Energy (Abolition) Act 1989. The amount of the levy is based upon a prescribed formula incorporating the maximum downhole bore temperature and bore depth. Every owner of a geothermal bore (other than a bore which has been properly abandoned) is required to pay a levy within 30 days after receipt of an invoice. Payments not received within this period are liable for an additional 10% penalty interest.

An invoice (or invoices) for the levy (inclusive of GST) covering the 1993 calendar year is enclosed.

A report on your bore and geothermal heating system will be forwarded as soon as possible following the completion of the inspection programme.

Please note that on 30 June 1993 the Taupo office of the Ministry of Commerce Mining Inspection Group will close and the Senior Inspector will transfer to the North Island Regional office in Hamilton. The Ministry will continue to deliver health and safety services from the Rotorua and Hamilton offices.

If you have any questions regarding the safety of your bore, the safety of your heating system, or the invoice (invoices) enclosed, please contact the Geothermal Inspector in Rotorua, Mr John Molloy (Ph 073 460 797) or myself at Hamilton (Ph 078 383 515).

Yours sincerely

Stephen A Owens
Senior Inspector - Petroleum & Geothermal

COMMERCEMINISTRY OF COMMERCE
Te Manatū Tauhokohoko

Head Office, Ministry of Commerce Building, 33 Bowen Street, Wellington, New Zealand.

P.O. Box 1473, Telephone (04) 472 0030, Cables: TRADBORD, FAX (04) 473 4638

GST REGISTRATION NUMBER 50-925-968

TAX INVOICE **M** 31816ALDERTON KINGSTON & CO
P O BOX 6448
AUCKLANDDOC REF. 55112000
DATE 14/Jun/93
CUSTOMER REF. ALDEKI

PLEASE PAY ON THIS INVOICE

ITEM	INT REF	DESCRIPTION OF GOODS AND SERVICES	CODE	VALUE
1	001780	GEOTHERMAL BORE RR875 INSPECTION LEVY/ATTN:LARKIN	055112049418	398.96

GST

49.87

TOTAL AMOUNT DUE \$

448.83

REMITTANCE ADVICEPLEASE RETURN YOUR PAYMENT WITH
THIS REMITTANCE ADVICE TOENERGY & RESOURCES DIVISION
MINISTRY OF COMMERCE
P.O. BOX 1052
TAUPO

OFFICE USE ONLY

M 31816

CUSTOMER REF: ALDEKI

RECEIPT No. _____

RECEIPT DATE _____

TOTAL AMOUNT DUE \$ 448.83

CHEQUE No. _____

TOTAL REMITTED _____

COST CENTRE COPY

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomangi Street
PO Box 1052, Taupo
New Zealand
Telephone (07) 378 0560
Fax (07) 378 0541



MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomangi Street
PO Box 1052, Taupo
New Zealand
Telephone (07) 378 0560
Fax (07) 378 0541



28 October 1992

Alderton Kingston & co
P O Box 6448
AUCKLAND

Dear Sir

GEOHERMAL BORE INSPECTION 1992 - BORE RR875

An annual inspection of geothermal bores in Rotorua has been carried out by a Geothermal Inspector during the current calendar year to assess the condition of the bores and their compliance with acceptable health and safety standards.

When inspected geothermal bore RR875 was found to be in a satisfactory condition.

A copy of the Geothermal Inspector's report is attached for your review.

If you have any questions regarding the safety of your bore please do not hesitate to contact Geothermal Inspector Mr John Molloy, Ph 346 0797 Rotorua.

Yours sincerely

Stephen Owens
Senior Inspector - Petroleum & Geothermal

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS P O Box 6448
Auckland

BORE NO RR875
DATE 29 Sep 92

BORE LOCATION: 96 Pukuatua Street, Rotorua
BORE STATE: Shut
BORE TYPE: Direct Discharge

VALVES:	Diameter (ins)	Type	Rating	Condition
AUDCO	3.000	PL	150.00	Good
AUDCO	3.000	PL	150.00	Good
KITZ	1.250	GA	0.00	Good

MAX BORE TEMP:	177.00	Deg C	DEPTH:	136.63	m
WELLHEAD PRESSURE	0.21	MPa	GAS SIGN:	No	
WELLHEAD PAINTWORK:	Good		CELLAR VENT:	N/A	
ANNULUS CEMENT:	Good		CELLAR GAS:	None	
ACCESS TO BORE:	Good		WATER ON SITE:	Yes	
BORE NO DISPLAYED:	Yes		PHOTO:	No	

COMMENTS: Maintained in satisfactory condition.
Bore shut in at time of inspection.

REMEDIAL WORK:

INSPECTOR:

John Molloy

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomanga St.
P.O. Box 1052, Taupo.
New Zealand
Telephone 07-80560
Fax 07-80541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tūhono

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS 96 Puhuatua St Rotorua

BORE NO RR875
DATE 29-9-92

Bore State: ☒ Shut
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

	Diameter	Make	Type	Rating	Condition (Good/Fair/Poor)	Locked
Valves: Master:	3"	AUDCO	TC	150	DISCHARGE	UNPLUGGED OPEN
Other:	3"	AUDCO	TC	150	BLOWDOWN	UNPLUGGED OPEN
Other:	1 1/4"	KITZ	GATE	200		

Wellhead Pressure: SHUT/BROKEN

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/Poor

Gas/Steam/Dry
Cellar Vent 1: ☐
Vent 2: N/A

Annulus Cement: Good/~~Fair~~/Poor

Cellar Gas: Strong/~~Slight~~/None

Access Good ☒
to Bore: ~~Bad~~
Poor ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: Maintained in satisfactory condition -
somebody here recently doing wireline work - bore
Remedial Work: is shut & never been used or hooked up.

Inspector: [Signature]



MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

Head Office, Ministry of Commerce Building, 33 Bowen Street, Wellington, New Zealand.
P.O. Box 1473, Telephone (04) 472 0030, Cables: TRADBORD, FAX (04) 473 4638

GST REGISTRATION NUMBER 50-925-968

TAX INVOICE **M** 23183

ALDERTON KINGSTON & CO
P O BOX 6448
AUCKLAND

DOC REF.

55144000

DATE

08/Jun/92

CUSTOMER REF.

ALDEKI

PLEASE PAY ON THIS INVOICE

ITEM	INT REF	DESCRIPTION OF GOODS AND SERVICES	CODE	VALUE
1	001780	GEOTHERMAL BORE RR875 INSPECTION LEVY	055144049418	398.96
				49.87
				448.83

GST

TOTAL AMOUNT DUE \$

REMITTANCE ADVICE

PLEASE RETURN YOUR PAYMENT WITH
THIS REMITTANCE ADVICE TO

ENERGY & RESOURCES DIVISION
MINISTRY OF COMMERCE
P.O. BOX 1052
TAUPO

OFFICE USE ONLY

M 23183

CUSTOMER REF:

ALDEKI

RECEIPT No. _____

RECEIPT DATE _____

TOTAL AMOUNT DUE \$

448.83

CHEQUE No. _____

TOTAL REMITTED _____

COST CENTRE COPY

MINING INSPECTION

**ENERGY & RESOURCES
DIVISION**

18-24 Horomatangi St,
P.O. Box 1052, Taupo,
New Zealand.
Telephone (07) 378 0560
Fax (07) 378 0541

COMMERCE

MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

15 June 1992

Alderton Kingston & Co
P O Box 6448
AUCKLAND

Dear Sirs

ROTORUA GEOTHERMAL BORES - LEVIES

Inspections of Rotorua geothermal bores are undertaken to assess the condition of the bores and their compliance with acceptable health and safety standards.

Boreowners are required to pay a levy in terms of Section 20 of the Ministry of Energy (Abolition) Act 1989. The amount of the levy is based upon a prescribed formula incorporating the maximum downhole bore temperature and bore depth.

As of 01 January 1992 an amendment to Section 20 of the Ministry of Energy (Abolition) Act 1989 makes owners of geothermal bores and not users of geothermal energy liable for the payment of geothermal levies. Every owner of a geothermal bore (other than a bore which has been properly abandoned) is required to pay a levy within 30 days after receipt of an invoice. Payments not received within this period are liable for an additional 10% penalty interest.

An invoice (or invoices) for the levy of \$448.83 (inclusive of GST) covering the 1992 calendar year is enclosed.


Please note that the forthcoming quarterly rental invoices from the Bay of Plenty Regional Council will reflect a reduction, equivalent to the levy paid on production bores only, against the geothermal energy rental charged.

Inspections of geothermal bores in Rotorua are expected to be completed by the end of October 1992. A report on your bore will be forwarded as soon as possible following the completion of the bore inspection programme.

● have enclosed a newsletter to boreowners which outlines recent changes to the Geothermal Energy Regulations 1961 as prescribed in Amendment No 6. These new regulations will come into affect on 25 June 1992.

If you have any questions regarding the safety of your bore, changes to the Geothermal Energy Regulations or the invoice (invoices) enclosed, please contact the Geothermal Inspector in Rotorua, Mr John Molloy (Ph 073 460 797).

Yours sincerely

A handwritten signature in black ink, appearing to read 'S A Ovens', with a long horizontal flourish extending to the right.

Stephen A Ovens
Senior Inspector - Petroleum & Geothermal

RR. 875

MINING INSPECTION

ENERGY & RESOURCES
DIVISION

18-24 Horomatangi St.
P.O. Box 1052, Taupo,
New Zealand.
Telephone (07) 378 0560
Fax (07) 378 0541

COMMERCE

MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

02 March 1992

Alderton Kingston & Co
P O Box 6448
AUCKLAND

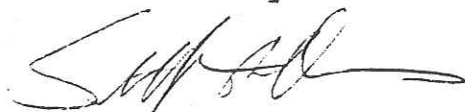
Dear Boreowner

According to our records the geothermal inspection levy on your bore remained unpaid as of 14 February 1992. As previously advised invoices outstanding beyond 30 days of receipt are liable for an additional 10% penalty interest.

Enclosed is an invoice for the amount of \$22.44 comprising 10% penalty interest on the outstanding geothermal inspection levy for your bore.

If your account has been recently paid please advise this office as soon as possible.

Yours sincerely



Stephen A Ovens
Senior Inspector - Petroleum & Geothermal

COMMERCEMINISTRY OF COMMERCE
Te Manatū Tauhokohoko

Head Office, Ministry of Commerce Building, 33 Bowen Street, Wellington, New Zealand.

P.O. Box 1473, Telephone (04) 472 0030, Cables: TRADBORD, FAX (04) 473 4638

GST REGISTRATION NUMBER 50-925-968

TAX INVOICE **M** 21252ALDERTON KINGSTON & CO
P O BOX 6448
AUCKLAND

DOC REF.

55144000

DATE

27/Feb/92

CUSTOMER REF.

ALDEKI

PLEASE PAY ON THIS INVOICE

ITEM	INT REF	DESCRIPTION OF GOODS AND SERVICES	CODE	VALUE
1		10% PENALTY/GEO INSPECTION	055144049418	19.95

GST

2.49

TOTAL AMOUNT DUE \$

22.44

REMITTANCE ADVICEPLEASE RETURN YOUR PAYMENT WITH
THIS REMITTANCE ADVICE TOENERGY & RESOURCES DIVISION
MINISTRY OF COMMERCE
P.O. BOX 1052
TAUPO

OFFICE USE ONLY

M 21252

CUSTOMER REF: ALDEKI

RECEIPT No. _____

RECEIPT DATE _____

TOTAL AMOUNT DUE \$ 22.44

CHEQUE No. _____

TOTAL REMITTED _____

COST CENTRE/COPY

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Homunga St.
P.O. Box 1052, Taupo.
New Zealand
Telephone (074) 80 560
Fax (074) 80 541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tāhūkohoko

23 January 1992

J R B Kingston & Co
P O Box 6448
AUCKLAND

Dear Mr Kingston

GEOTHERMAL BORE RR875

Following the completion of a health and safety inspection of geothermal bores in Rotorua for the 1991 calendar year, please find enclosed a copy of an inspection report for your bore.

When inspected Geothermal Bore RR875 was found to be in a satisfactory condition.

If you have any questions regarding the safety of your bore or any remedial work recommended (if requested) please do not hesitate to contact the Geothermal Inspector in Rotorua, Mr John Molloy (ph 07 3460797).

Yours sincerely



Stephen A Ovens
Senior Inspector - Petroleum & Geothermal

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Homunga St.
P.O. Box 1052, Taupo.
New Zealand
Telephone (074) 80 560
Fax (074) 80 541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tāhūkohoko

GEOTHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS P O Box 6448
Auckland

BORE NO RR875
DATE 18 Nov 91

BORE LOCATION: 96 Pukumatua Street, Rotorua
BORE STATE: Shut
BORE TYPE: Direct Discharge

VALVES:	Make	Diameter (ins)	Type	Rating	Condition
AUDCO	3.000	PL		150.00	Good
AUDCO	3.000	PL		150.00	Good
KITZ	1.250	GA		0.00	Good

MAX BORE TEMP:	177.00	Deg C	DEPTH:	136.63	m
WELLHEAD PRESSURE	0.00	MPa	GAS SIGN:	No	
WELLHEAD PAINTWORK:	Good		CELLAR VENT:	N/A	
ANNULUS CEMENT:	Good		CELLAR GAS:	None	
ACCESS TO BORE:	Good		WATER ON SITE:	Yes	
BORE NO DISPLAYED:	Yes		PHOTO:	No	

COMMENTS: Bore maintained in excellent condition.
No pipework connected.

REMEDIAL WORK:

INSPECTOR: John Molloy

J.R.B. KINGSTON & CO.
BARRISTERS AND SOLICITORS

7th FLOOR, 43 HIGH STREET, AUCKLAND 1
P.O. Box 6448 DX1
FAX 309 4334
TELEPHONE 303 2749

James R. B. Kingston, LL.B.
Susan M. Kingston, LL.B. (Associate).

IN REPLY PLEASE QUOTE

2nd December, 1991

The Ministry of Commerce,
Mining Inspection
Energy & Resources Division,
P.O. Box 1052,
TAUPO.

Attention: Mr. S. Ovens.

Dear Sir,

re: Geothermal Bore RR875 - Kingston, Rykers & Larkin.

M. O. C.
TAUPO
RECEIVED
DATE: 03 DEC 1991
BY: SMO

31/12/91

For Reply

① Letter marked
31/12/91
SMO.

(F)

We refer to your letter of the 28th November.

The above bore is not in use and we do not think an inspection is necessary.

Could you please confirm.

Yours faithfully,
J.R.B. KINGSTON & CO.


M.A. HAWTHORNE (MRS).

(for Mr. J.R.B. Kingston)

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomatangi St,
P.O. Box 1052, Taupo,
New Zealand.
Telephone (074) 80 560
Fax (074) 80 541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

03 December 1991

J R B Kingston & Co
P O Box 6448 DX1
AUCKLAND 1

Attention: Mr J R B Kingston

Dear Sir

GEOTHERMAL BORE RR875

Thank you for your letter of 2 December 1991 in regard to geothermal bore RR875 located at 96 Pukuatua Street, Rotorua.

Users of geothermal energy are required to pay an annual levy in terms of Section 20 of the Ministry of Energy (Abolition) Act 1989. If the bore has not been in use during the 1991 calendar year then no levy is payable. However with the introduction of the Resource Management Act on 1 October 1991 the legislation has been amended so that for the 1992 calendar year the annual levy will apply to all bores except those properly abandoned. (Copy of amendment attached.)

Please indicate if the bore remained shut during the entire 1991 calendar year. Upon receipt of your confirmation I will apply for a credit to your account.

Yours sincerely



Stephen A Owens
Senior Inspector - Petroleum & Geothermal

EIGHTH SCHEDULE—*continued*ENACTMENTS AMENDED—*continued*PART I—*continued*

Enactment	Amendment
1989, No. 140—The Ministry of Energy (Abolition) Act 1989— <i>continued</i>	<p>licence was worked during that period; or</p> <p>“(b) A levy of \$250, or such lesser amount as may be prescribed, for the immediately preceding period of 6 months ended with the 31st day of December or the 30th day of June, as the case may be, if the prospecting licence was not worked during that period.”</p> <p>By omitting from section 18(4) the expression “\$3,000”, and substituting the expression “\$3,300”.</p> <p>By repealing subsections (1) and (2) of section 20, and substituting the following subsections:</p> <p>“(1) In this section, unless the context otherwise requires, expressions defined in the Geothermal Energy Act 1953 or in the Geothermal Energy Regulations 1961 shall have the meanings so defined.</p> <p>“(2) Every owner of a bore which exceeds, or in the opinion of the Secretary is likely to exceed, a temperature of 70° celsius at any depth of the bore (other than a bore which has been properly abandoned) shall pay to the Secretary, within 30 days after receipt of an invoice from the Secretary, an annual levy as provided by this section.”</p> <p>By omitting from subsection (3) of section 20 the word “user”, and substituting the words “owner to whom subsection (2) of this section applies”.</p> <p>By omitting from the said subsection (3) the words “from which geothermal energy is used”.</p> <p>By omitting from subsections (5), (6), and (8) of section 20 the word “user” wherever it occurs, and substituting in each case the word “owner”.</p>

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomatangi St,
P.O. Box 1052, Taupo,
New Zealand.
Telephone (074) 80 560
Fax (074) 80 541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tauhokohoko

28 November 1991

Alderton Kingston & Co
P O Box 6448
AUCKLAND

Dear Boreowner

GEOHERMAL BORE RR875

An annual inspection of Rotorua geothermal bores is currently being undertaken to assess the condition of the bores and their compliance with acceptable health and safety standards.

An invoice for a bore inspection levy of \$224.42 (inclusive of GST) for the period of 1 July to 31 December 1991 is enclosed payable on bores from which geothermal energy is used. Users of geothermal energy are required to pay an annual inspection levy in terms of Section 20 of the Ministry of Energy (Abolition) Act 1989. The invoice is payable within 30 days of receipt of the invoice. Payments not received within this period are liable for an additional 10% penalty interest.

Inspections of geothermal bores in Rotorua are expected to be completed by the end of December 1991. An inspection report on your bore will be forwarded following the completion of the bore inspection programme.

If you have any questions regarding the safety of your bore, or the invoice enclosed, please contact the Geothermal Inspector in Rotorua, Mr John Molloy (ph 073 460 797).

Yours sincerely



Stephen A Ovens
Senior Inspector - Petroleum and Geothermal

COMMERCEMINISTRY OF COMMERCE
Te Manatū Tauhokohoko

Head Office, Ministry of Commerce Building, 33 Bowen Street, Wellington, New Zealand.

P.O. Box 1473, Telephone (04) 720 030, Cables: TRADBORD, FAX (04) 712 573

GST REGISTRATION NUMBER 50-925-968

TAX INVOICE **M**

18051

ALDERTON KINGSTON & CO
P O BOX 5448
AUCKLAND

DOC REF.

55144000

DATE

26/Nov/91

CUSTOMER REF.

ALDEKI

PLEASE PAY ON THIS INVOICE

ITEM	INT REF	DESCRIPTION OF GOODS AND SERVICES	CODE	VALUE
1	001780	GEOTHERMAL BORE-RR875 INSPECTION LEVY.J LARKIN	055144049418	199.48
GST				24.94
TOTAL AMOUNT DUE \$				224.42

REMITTANCE ADVICE

OFFICE USE ONLY

M

18051

PLEASE RETURN YOUR PAYMENT WITH
THIS REMITTANCE ADVICE TOENERGY & RESOURCES DIVISION
MINISTRY OF COMMERCE
P.O. BOX 1052
TAUPO

CUSTOMER REF:

ALDEKI

RECEIPT No. _____

RECEIPT DATE _____

TOTAL AMOUNT DUE \$

224.42

CHEQUE No. _____

TOTAL REMITTED _____

COST CENTRE COPY

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomatangi St.
P.O. Box 1052, Taupo.
New Zealand.
Telephone 07+ 80560
Fax 07+ 80541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tūtohu

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co.
ADDRESS 96 Pukunatua St Rotorua

BORE NO RR875
DATE 18-11-91

Bore State: ☒ Shut
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

	Diameter	Make	Type	Rating	Condition (Good/ Fair / Poor)	Locked
Valves: Master:	3"	AUDCO	TC	150		
Other:	3"	AUDCO	TC	150		
Other:	1 1/4"	KITZ	GATE	-		

Wellhead Pressure: 0

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/~~Fair~~/~~Poor~~

Cellar Vent 1: Gas/Steam/Dry
Vent 2: NA

Annulus Cement: Good/~~Fair~~/~~Poor~~

Cellar Gas: ~~Strong~~/Slight/None

Access Good ☒
to Bore: ~~Bad~~
~~Poor~~

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: Bore is still maintained in excellent condition - no pipework connected - same as last photo

Remedial Work: _____

Inspector: [Signature]

DDG.

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME Alderton Kingston & Co
ADDRESS P O Box 6448
Auckland

BORE NO RR875
DATE 28 Dec 90

Bore Location: 96 Pukuatua Street, Rotorua
Bore State: Shut
Bore Type: Direct Discharge

Valves:	Make	Diameter	Type	Rating	Condition
	AVDCO	3.000	PL	1.03	Good
	AVDCO	3.000	PL	1.03	Good
	KITZ	1.250	GA	0.00	Good

Wellhead Pressure:	0.00	Gas Sign:	No
Wellhead Paintwork:	Good	Cellar Vent:	N/A
Annulus Cement:	Good	Cellar Gas:	None

Access to Bore:	Good	Water on Site:	Yes
Bore No Displayed:	Yes	Photo:	No

COMMENTS: Direct discharge bore in excellent condition

REMEDIAL WORK:

INSPECTOR: John Molloy

MINING INSPECTION
ENERGY & RESOURCES
DIVISION

18-24 Horomatangi St.
P.O. Box 1052, Taupo,
New Zealand.
Telephone (074) 80560
Fax (074) 80541

COMMERCE
MINISTRY OF COMMERCE
Te Manatū Tūhokohoko

GEOHERMAL WELL FIELD INSPECTION REPORT

NAME LARKIN BROS (96 PUKUATUA STREET)

BORE NO RR875

ADDRESS C/- JRB KINGSTON BOX 6448 AUCKLAND

DATE 28 Dec 1990

Bore State: ☒ Shut
☐ Bleeding
☐ Discharging
☐ Reinjection
☐ Abandoned

Bore Type: ☐ Down Hole Exchange
☐ Down Hole Pump
☐ Air Lift
☒ Direct Discharge
☐ Reinjection
☐ Soak

Condition
Diameter Make Type Rating (Good/Fair/Poor) Locked

Valves: Master: ☒

Other:

Other:

3"	Audco	TC			
3"	Audco	TC			
1 1/4"	Kitz	Gate			

Wellhead Pressure: 0

Gas Sign: Yes ☐
No ☒

Wellhead Paintwork: Good/Fair/Poor

Gas/Steam/Dry
Cellar Vent 1: ☐
Vent 2: ☐

Annulus Cement: Good/Fair/Poor

Cellar Gas: Strong/Slight/None

Access Good ☒
to Bore: Bad ☐

Water Yes ☒
on Site: No ☐

Bore No. Yes ☒
Displayed: No ☐

Photo: Yes ☐
No ☒

General Comments: Bore in excellent condition

Remedial Work:

Inspector: John Molloy

MINISTRY OF ENERGY

P.O. Box 793, Rotarua, New Zealand

Telephone (073) 460-797

Fax (073) 460-801

BORE INSPECTION REPORT

Bore No 875

Date 24/11/89

NAME

ADDRESS

J LARKIN

96 Pukeatua ST

MAXIMUM TEMPERATURE:

WELLHEAD PRESSURE:

TOTAL DEPTH: 136.63m

CASING	DIA.	DEPTH	GRADE	WELLHEAD PRESSURE	WELLHEAD PRESSURE	WELLHEAD PRESSURE	WELLHEAD PRESSURE	WELLHEAD PRESSURE	WELLHEAD PRESSURE
	7"	22.6m		4"	122.5m				
MASTER VALVE	YES	NO	DIA	MAKE	TYPE	RATING	CONDITION	GOOD	FAIR
								POOR	
OTHER VALVES			3"	Audco	plus	150 psi	CONDITION	GOOD ✓	FAIR
								POOR	
OTHER VALVES			3"	Audco	plus	150 psi	CONDITION	GOOD ✓	FAIR
								POOR	
OTHER VALVES			1 1/4"	KITZ	gate		CONDITION	GOOD ✓	FAIR
								POOR	

GENERAL CONDITION OF WELLHEAD

Excellent condition

WELL STATE

Shut ✓ Bleeding Discharging

DATE OF LAST INSPECTION: 21/10/88

BORE NO. DISPLAYED

YES
NO

✓

ACCESS TO BORE

GOOD
BAD

✓

WATER ON SITE

YES
NO

✓

DRILLING FIRM

RWD

PHOTO

YES
NO

✓

DATE OF :

LAST CALIPER RUN

GO DEVIL RUN

TEMPERATURE RUN

FLOW METER RUN

CO-ORDINATES 2794667

6335530

GENERAL COMMENTS:

Temp 146°C } when drilled 16/9/82
36 psi }



P.O. Box 793, Rotorua, New Zealand

Telephone (073) 460-797

Fax (073) 460-801

MINISTRY OF ENERGY

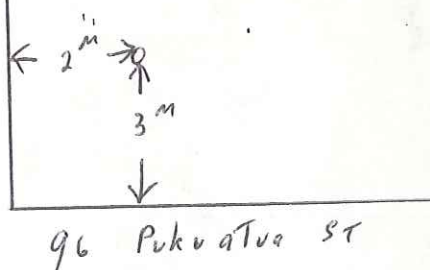
BORE INSPECTION REPORT

BORE NO: 875

DATE: 24/11/89

LOCATION OF BORE ON SITE PLUS PHOTO:

CO-ORDINATES: _____



BORE INSPECTION REPORT

Bore No 875

Date 21/10/88

NAME

ADDRESS

LARKIN BROTHERS - Kingston.

96 Pukutu ST

MAXIMUM TEMPERATURE:

WELLHEAD PRESSURE:

TOTAL DEPTH: 136.63

CASING	DIA.	175 mm.	98 mm						
	DEPTH	22.6 m	122.5 m						
	GRADE								
MASTER VALVE	YES	NO	DIA	MAKE	TYPE	RATING	CONDITION	GOOD	FAIR
		✓						POOR	
OTHER VALVES	✓		75 mm	Audco	Plug		CONDITION	GOOD	FAIR
								POOR	
OTHER VALVES	✓		75 mm	Audco	Plug		CONDITION	GOOD	FAIR
								POOR	
OTHER VALVES	✓		32 mm	KITZ	Gate		CONDITION	GOOD	FAIR
								POOR	

GENERAL CONDITION OF WELLHEAD

EXCELLENT CONDITION

WELL STATE

Shut ✓ Bleeding Discharging Reinjection

DATE OF LAST INSPECTION: 12.3.87. BORE NO. DISPLAYED

YES
NO

ACCESS TO BORE	GOOD	✓	WATER ON SITE	YES	✓	DRILLING FIRM	PHOTO	YES	✓
	BAD			NO		RWD		NO	

DATE OF :

LAST CALIPER RUN

GO DEVIL RUN

TEMPERATURE RUN

FLOW METER RUN

MAGNELOG

PRESSURE RUN

GENERAL COMMENTS:

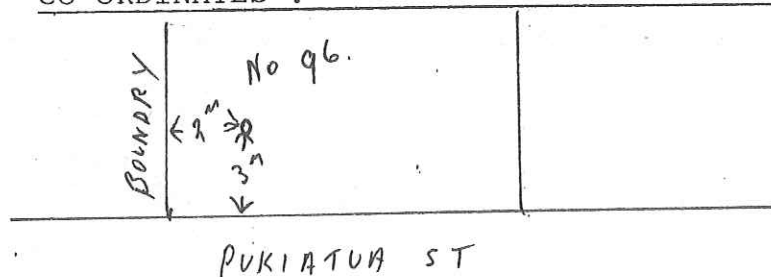
BORE INSPECTION REPORT

BORE NO: 895

DATE: 21/10/88

LOCATION OF BORE ON SITE PLUS PHOTO:

CO-ORDINATES:

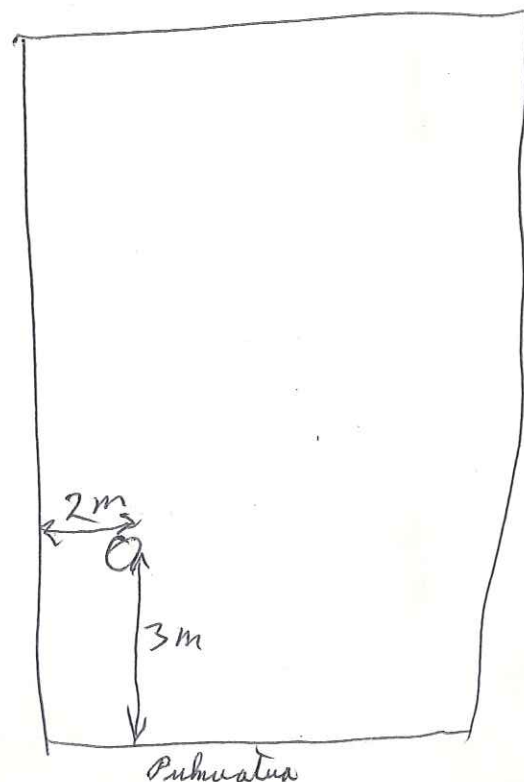
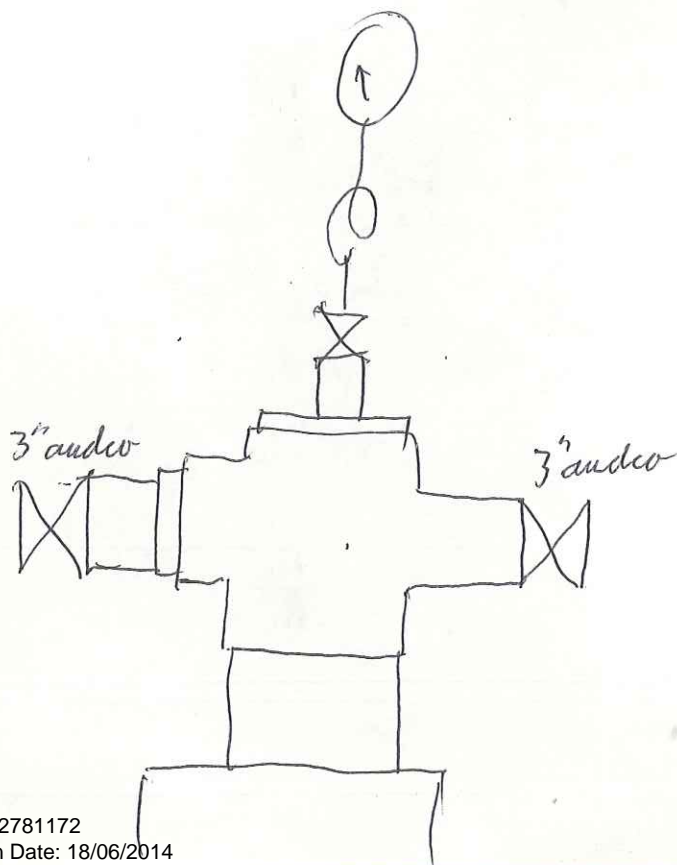


Completion Date

A photograph of a white gas valve assembly in a grassy field. A black sign with white text is placed in front of the valve, reading "clown chalk board", "BORE", "875", and "12/31/87". A person's legs in khaki pants are visible on the right side of the frame.

Yes/No

Wellhead/Ancillary Equipment *good*
abandoned



MINISTRY OF ENERGY

P.O. Box 793, Rotorua, New Zealand

Telephone (073) 460-797

Fax (073) 460-801

Our Ref.

Your Ref.

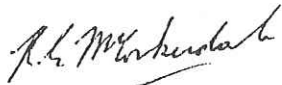
17 February 1989

Mr J R B Kingston
c/- NZP Box 6448
Wellesley St
AUCKLAND

Dear Sir

Enclosed please find a copy of the latest Inspector's
Report on Bore no 875 for your information.

Yours faithfully



K E McCorkindale
Geothermal Inspector

enc

Bone 875

24/12/87
6/1/88

1656. Pakuata St

This Bone is not on any
service & is as stated been drilled
for investigation only

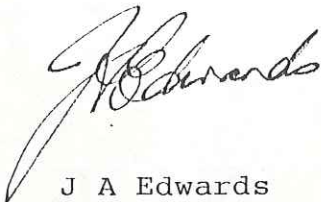
Some servicing, painting & rust
protection etc programme should be
insisted on as signs of minor
surface corrosion is evident

— Benih.

FILE NOTE

11 September 1987

BORE 875 was drilled by the owners in 1982 to test the potential of geothermal energy for a future development site. It was not intended to use the bore at that time and is not likely to be pressed into service until 1989.

A handwritten signature in dark ink, appearing to read 'J A Edwards', with a stylized, cursive script.

J A Edwards

MINIMUM STANDARDS FOR GEOTHERMAL HEATING EQUIPMENTA. USER INFORMATION.STREET: Pukuatua No. 96

OCCUPIER: _____

OWNER: Sarkin Bros

Summary of uses of Geothermal energy:

Mark YES or NO
as appropriate.

Space heating.

Not☐

Domestic hot water heating.

in☐

Swimming pool heating.

Use☐

Spa pool (plunge pool) heating.

☐

Mineral pool heating.

Drilled & not used☐

Cooking (steam box).

☐

Other (specify). _____

☐Geothermal supply from bore No. 875 Wellhead Pressure _____Street _____ No. _____ Production Casing Dia. 100

Owner _____

Number of users. _____ User royalty charge \$ _____ per annum.

Energy distribution system:

- 1 pipe geothermal water system.

☐OR - 2 or 3 pipe secondary water system.☐

Down hole heat exchanger (if applicable).

☐

Geothermal reinjection (if applicable).

☐

Geothermal disposal on site (if applicable).

☐

NEW ZEALAND WATER WELL DATA FORM

[illegible]

File No.: 650/729

Bore No.: 875

Owner: LARKIN BROS

Address: 96 PUKWATNA ST C/P 27 SOPHIA ST

Lot 1 D.P.S. 19165, Sec Block

PARTICULARS OF LICENCE

Bore: 875

Completion Date: 16 Sept 1982 Contractor: ROT. WELLDRIILLING COY.

Bore Manager:

Bore Details: 100 mm PRODUCTION BORE

175 mm CASING = 22.6 m

98 mm " = 122.50 m

TOTAL DEPTH = 136.63 m

Temp. 146 °C.

Pressure: 36 P.S.I.G.

B.Th.U./Hr. Total Useful

Discharge Gallons/Hour

Reticulation: Use

Exchangers for: Heating Water Supply

Reticulation size:

Mineral Pool:

Cooking Box:

Other:

Disposal

	Dia.	Depth	Casing	Height
Deep Bore				
Soak Bore				
Vent Pipe				
Other Disp.				

COMMENTS:

RP 7065/8/73

1.524 Proposed 100m
production
1.524 Bore.

96 Pukua TUA - 55

Indicate in plan form in the space above the location of the following geothermal works and structures on the property:

- (i) Main building, accessory buildings, mineral pools or baths;
- (ii) Production bore;
- (iii) Disposal bore or soak hole;
- (iv) Reticulation lines, effluent lines and heat exchangers;

GEOHERMAL BORE INFORMATION AND COMPLETION CERTIFICATE.

Address 96 Pukitapu St. Rotorua Bore No 875
 Bore Manager A. Gibson Date of Completion 16th Sept. 1982
 Grade of steel used Black Heavy.
 Amount of grouting used 65 bags of cement
 Temperature °C 146. Output l/Hr Pressure P.S.I.G. 36

Drilling rate Casing size Bore log Depth

175 mm
98 mm
22.86 metres
122.50 metres

0 - 75
 Timber sand mud
 mixed with pumice
 100 - 360 Mud &
 Mudstone with
 some hard layers
 & broken
 360 - 431
 Rhyolite patches
 pumice &

136.63
metres

In accordance with Section 31(f) of the City of Rotorua
 Geothermal Energy By-Law 1973, I certify that the above-
 mentioned bore is safe and ready to use.

Signed _____

Bore Manager

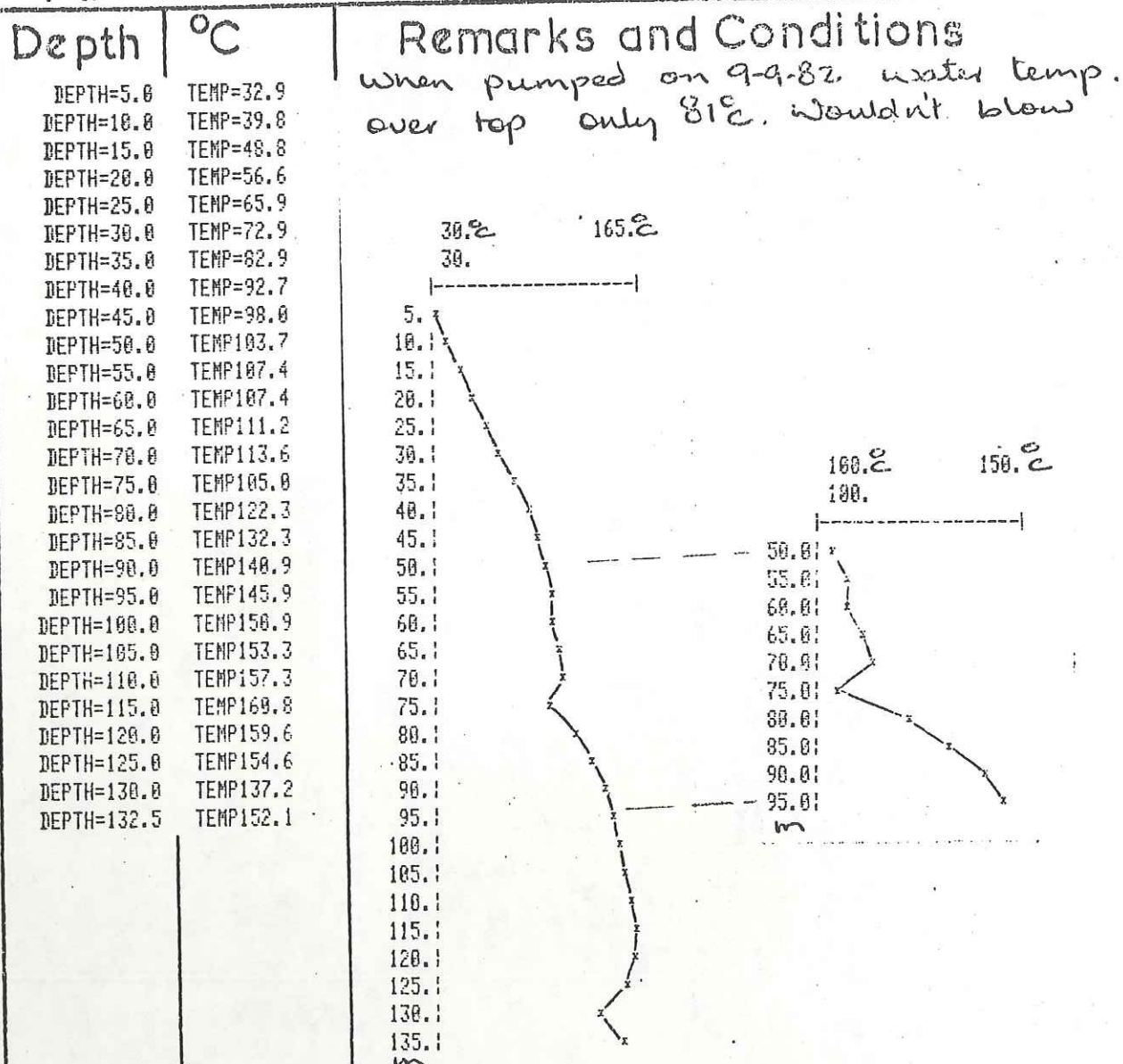
Date

7.3.83

ROTORUA GEOTHERMAL FIELD

DOWNHOLE TEMPERATURE

Water level	1.98m.	Bore NO	875....
W.H.P.	nil	Run NO	8209/1
Bore state	pumped 9-9-82* standing 5 days	Date	14-9-82
I.M.C.D.	132.5m.	R.L. of CHF
Drilled depth	137.5m	Address	96. Pukunatua St
Cased depth	122.4m		



ROTORUA GEOTHERMAL FIELD

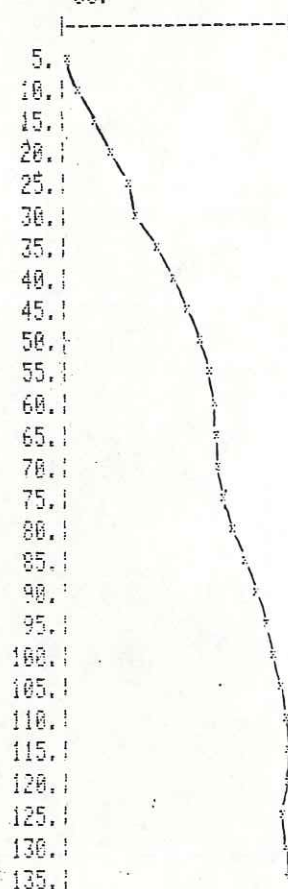
DOWNHOLE TEMPERATURE

Water level	1.0m	Bore N ^o	875
W.H.P	nil	Run N ^o	8302/5
Bore state	standing 3 months	Date	21-2-83
I.M.C.D.	136.0m	R.L.of CHF	
Drilled depth	137.5m	Address	96 Pukuatua St.
Cased depth	122.4m		

Depth	°C	Remarks and Conditions
-------	----	------------------------

DEPTH=5.0000	TEMP=32.7
DEPTH=10.0	TEMP=39.7
DEPTH=15.0	TEMP=49.5
DEPTH=20.0	TEMP=59.0
DEPTH=25.0	TEMP=70.0
DEPTH=30.0	TEMP=74.9
DEPTH=35.0	TEMP=87.8
DEPTH=40.0	TEMP=97.3
DEPTH=45.0	TEMP106.2
DEPTH=50.0	TEMP113.6
DEPTH=55.0	TEMP118.6
DEPTH=60.0	TEMP122.1
DEPTH=65.0	TEMP123.1
DEPTH=70.0	TEMP124.1
DEPTH=75.0	TEMP127.3
DEPTH=80.0	TEMP133.0
DEPTH=85.0	TEMP140.9
DEPTH=90.0	TEMP147.1
DEPTH=95.0	TEMP153.3
DEPTH=100.0	TEMP157.0
DEPTH=105.0	TEMP162.0
DEPTH=110.0	TEMP165.0
DEPTH=115.0	TEMP167.2
DEPTH=120.0	TEMP168.2
DEPTH=125.0	TEMP163.3
DEPTH=130.0	TEMP165.8
DEPTH=136.0	TEMP170.7

PLOT OF T/PLT
X (UNITS= 1.) +
Y (UNITS= 1.) +
30. 170.
30.



NEW ZEALAND WATER WELL DATA FORM

SHEET No. <u>U.16</u> ₃		GRID REF		G.S. WELL No.		W <u>875</u> ₁₅		AREA <u>Bot. Geothermal Field</u>	
CATCHMENT <u>Kaituna</u>		WATER AUTHORITY <u>Borec</u>		WATER USE <u>heating</u>		PERMIT No. <u>6507.29</u> ₂₄		LOCATION SKETCH	
Well depth (m) <u>137.5</u> ₂₈	Measured diameter (mm) <u>100</u> ₂₉	Well diameter (mm) <u>100</u> ₁₆	Wellhead altitude (m) <u>100</u> ₂₉	Specific l/min/metre capacity m ² /day <u>42</u> ₄₂	Drawdown (m) <u>39</u> ₃₉				
Yield m ³ /day <u>39</u> ₃₉	Drilling date <u>820909</u> ₄₈	Well status <u>49</u> ₄₉							
Owner <u>Lot. Well. Co.</u>		Address <u>96 Pukeatua St.</u>		Type of development <u>51</u> ₅₁		Pump Type <u>50</u> ₅₀			
Screen Type <u>52</u> ₅₂	Slot sizes <u>51</u> ₅₁	Set at <u>52</u> ₅₂		Date <u>14-9-82</u> ₅₂		Source of information on well location, log, etc			
STATIC		WATER		LEVELS (m below surface)		HIGHEST <u>53</u> ₅₃			
LOWEST <u>57</u> ₅₇		MEAN <u>57</u> ₅₇		RANGE <u>57</u> ₅₇		FREQUENCY OF MEASUREMENT <u>61</u> ₆₁			
AQUIFER		CHARACTERISTICS		PERIOD OF MEASUREMENT		Transmissivity (m ² /day) <u>66</u> ₆₆			
Storage coefficient <u>72</u> ₇₂		Specific yield <u>73</u> ₇₃		Water Temperature (°C) <u>73</u> ₇₃		TEST PUMPING			
RECOVERY		After Time		Residual Drawdown (m)		Drawdown (metres)		REMARKS	
Pump Test <u>74</u> ₇₄		Chemical Analysis <u>75</u> ₇₅		Geophysical Data <u>76</u> ₇₆		Lithological Log <u>77</u> ₇₇		Isotope Data <u>78</u> ₇₈	
Card Type <u>80</u> ₈₀									

	REDUCED LEVEL IN METRES above+ below- m.s.l.				
	GRAPHIC LOG				
	DEPTH IN METRES Below ground surface				
<p style="text-align: center;">LITHOLOGY</p> <p style="text-align: center;">Reduced level of surface 283.5</p> <p> \wedge = drillwater gain \vee = drill water loss </p>					
	COLOUR				
	<table border="1"> <tr> <td>(a) Related to ground surface</td> <td>STATIC WATER LEVEL</td> </tr> <tr> <td>(b) Related to m.s.l.</td> <td></td> </tr> </table>	(a) Related to ground surface	STATIC WATER LEVEL	(b) Related to m.s.l.	
(a) Related to ground surface	STATIC WATER LEVEL				
(b) Related to m.s.l.					
	CASING				
	SCREEN				
	Approximate yield (litres/min) (m ³ /day)				
	Specific capacity (litres/min/metre) (m ² /day)				

22-9-82

File No.: 650/729 Bore No.: 875
Owner: LARKIN BROS
Address: 96 PUKUATWA ST C/o 27 SOPHIA ST
Lot _____ D.P.S. _____ Sec _____ Block _____

PARTICULARS OF LICENCE

Bore: 875
Completion Date: _____ Contractor: ROT. WELLDRIILLING COY.
Bore Manager: _____
Bore Details: 100 mm PRODUCTION BORE

Temp. _____ °C. Pressure: _____ P.S.I.G.
B.Th.U./Hr. Total _____ Useful _____
Discharge _____ Gallons/Hour
Reticulation: Use _____
Exchangers for: Heating _____ Water Supply _____
Reticulation size: _____
Mineral Pool: _____
Cooking Box: _____
Other: _____

Disposal

	Dia.	Depth	Casing	Height
Deep Bore				
Soak Bore				
Vent Pipe				
Other Disp.				

COMMENTS: _____

RP 7065/8/73

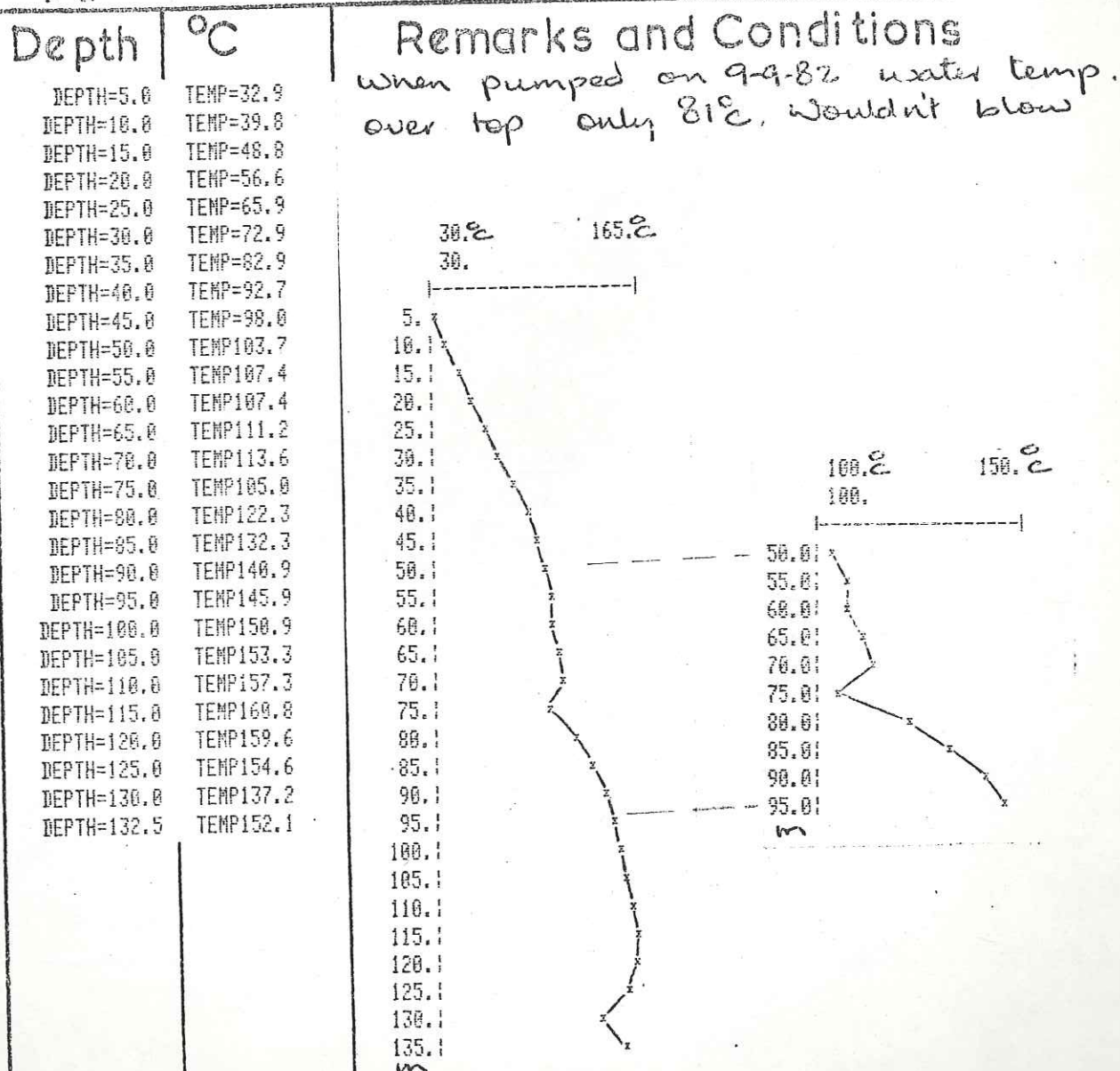
96 PUKUATWA ST
Correct location
1.52m
1.52m
PROPOSED
NEW
100mm
PRODUCTION BORE

Completed

ROTORUA GEOTHERMAL FIELD

DOWNHOLE TEMPERATURE

Water level	1.98m.	Bore No	875
W.H.P.	nil	Run No	8209/1
Bore state	pumped 9.9.82* standing 5 days	Date	14.9.82
I.M.C.D.	132.5m.	R.L. of CHF	
Drilled depth	137.5m	Address	96 Pukunahua St
Cased depth	122.4m		



ROTORUA GEOTHERMAL FIELD

DOWNHOLE TEMPERATURE

Water level	1.98m.	Bore No	875....
W.H.P.	nil	Run No	8209/1
Bore state	pumped 9-9-82* standing 5 days	Date	14-9-82
I.M.C.D.	132.5m.	R.L. of CHF
Drilled depth	137.5m.	Address	96. Pukunua St
Cased depth	122.4m.		

Depth	°C	Remarks and Conditions
		when pumped on 9-9-82 water temp. over top only 81°C. wouldn't blow

DEPTH=5.0	TEMP=32.9
DEPTH=10.0	TEMP=39.8
DEPTH=15.0	TEMP=48.8
DEPTH=20.0	TEMP=56.6
DEPTH=25.0	TEMP=65.9
DEPTH=30.0	TEMP=72.9
DEPTH=35.0	TEMP=82.9
DEPTH=40.0	TEMP=92.7
DEPTH=45.0	TEMP=98.0
DEPTH=50.0	TEMP=103.7
DEPTH=55.0	TEMP=107.4
DEPTH=60.0	TEMP=107.4
DEPTH=65.0	TEMP=111.2
DEPTH=70.0	TEMP=113.6
DEPTH=75.0	TEMP=105.0
DEPTH=80.0	TEMP=122.3
DEPTH=85.0	TEMP=132.3
DEPTH=90.0	TEMP=148.9
DEPTH=95.0	TEMP=145.9
DEPTH=100.0	TEMP=150.9
DEPTH=105.0	TEMP=153.3
DEPTH=110.0	TEMP=157.3
DEPTH=115.0	TEMP=169.8
DEPTH=120.0	TEMP=159.6
DEPTH=125.0	TEMP=154.6
DEPTH=130.0	TEMP=137.2
DEPTH=132.5	TEMP=152.1

