

The bath-house offered a number of allegedly curative treatments, some of which sound very strange today. These include radium water treatments (supposed to reduce blood pressure and blood

Edwardian spa 68.

emphasising the cultural retreat atmosphere of the gardens and a camera obscura was built on the games-track. An aviary and monkey house were installed in the hall became the equivalent of the English spa's pump room bathouse, as the centre of the Rotorua spa. The entrance Whilmann emphasised the importance of social life in the Europe were partly attracted by the opportunity to gamble. the bathouse! Many wealthily visitors to the spas of Wolhmann regretted that a casino could not be installed in In the town metal was spread on the public roads.... Dr bowling and croquet greens and tennis courts were added. social centre of Rotorua. A band rotunda was built and grounds, now known as the Government Gardens, became the gardens attractive. The tea house opened in the

Writs:-

"The tourist department also attempted to make Rotorua andambience resembling one of the great European spas. Rockel government balneologist at Rotorua since 1902, and the building had cost something like £40,000.00 to build. The surrounding area was developed in order to assist in the creation of an usually known as "Tudor Towers"). The existing force behind the bath-house at Rotorua (the building in the Government gardens construction was Dr Arthur Stanley Whilmann, usually known as "Tudor Towers"). The existing force behind the bath-house at Rotorua (the building in the Government gardens now and Admrial Sperry of the American Pacific fleet opened the new waters came in 1908. On 13 August of that year Sir Joseph Ward style spa based on the health-giving properties of geothermal

5.1 The apogee of the Government's hopes to create a European-

5.2 At Te Aroha, also (like Rotorua) linked by rail with Auckland and a rather smaller but in some ways more attractive spa buildings are now all preserved in the Te Aroha domain.

5.3 The hot springs at Whakarewarewa, Waimangu, Waikotapu and other places were seen as supplementary attractions for visitors however, rather difficult to get to, and the main tourist ownership of the hot springs where possible. Waikotapu was, to the central North Island spa resorts. As has been seen at Waikotapu, the tourist department tended to favour government centuary most of the land in and around Whakarewarewa was owned by Maori-owned, sandwiched between Crown Land on either side of it.

Here the Tuhourangi community remained, carrying on their traditional lifestyle - often much to the irritation of local inspectors of works and officials of the tourist department. In fact I have had to draw the attention of the Sanitary Inspector to the matter, but it made little difference with the Natives".⁷⁰ Cleaning potatoes and fish in some of the hot springs "and in 1906 the Inspector of works at Rotorua complained to the Superintendent of the department that local Maori persisted in

so-called "Oil Baths" a short distance away.⁷¹ The proximity of a base of hot water with Messrs Nathan & Co. who used it for the first commercial uses of geothermal water when they arranged to the inhabitants of Whakarewarewa seem to have entered into one of the matters, but it made little difference with the Natives".⁷⁰ The inhabitants of Whakarewarewa seem to have given rise to so-called "Oil Baths" a short distance away.⁷¹ The proximity of a base of hot water with Messrs Nathan & Co. who used it for the first commercial uses of geothermal water when they arranged to the Maori and Crown Land at Whakarewarewa seems to have given rise to endless petty disputes, concerning such matters as tolls and cooking and washing clothes in the hot pools. The inhabitants of the village were particularly concerned to maintain some control

5.5 In this evidence I have not attempted to deal at length with areas of land gifted by Ngati Whakau and other tribes at

The building was last used as a bathhouse in 1966.

recreation purposes."

occupied by the Government Guards, for health and fitness with the elders who had made a gift of the area, now for its original function. He believed this would keep Ohinemutu, urged the Government to retain the bathhouse "...Mr Dan Kingi, representing the Ngati Whakau people of

building. At one of these :-

There were a number of meetings to discuss the fate of the By the 1940s "things at the Bathhouse were in a desperate state".

"For some unknown reason the ventilation shafts and open

"near basement were blocked in so that steam built up when the building was closed overnight. On some frosty mornings the doors had to be left open for several minutes before anyone could venture in."

failed to ventilate properly. According to Rockell :-
the ceiling began to crack and the plaster began to fall away from the numerous maintenance problems. The concrete arches in the building began to soak in mineral waters and mud baths. The bath-house at Rotorua was furthermore plagued with therapeutic benefits of soaking in mineral waters and mud spas of Europe. Modern medicine gradually came to discount too isolated and backward to compete as a serious rival to the

5.4 The apogee of the spa era was short-lived. Rotorua was

carried on with their traditional lifestyle.
"respectable" tourists and those who wanted nothing less than to those who wanted to turn Rotorua into a showcase for myriad disputes reflected the quite natural tensions between attempt to use guides who were not from the village. These over the benefits to be derived from tourism, and resented any

ROTORUA for public purposes. The Fenton agreement specifically sets aside "Te Pukeroa" as a "Reserve for Public Recreation for everybody" - Kuirau Park. As mentioned, other land was made available by the tribes, Ngati Whakauae in particular, to encourage railway development. The setting aside of the area now known as the government gardens must have been by a separate process after the conclusion of the Fenton agreement.

5.6 The collapse of the ambitious dream did not mean the end of Rotorua as a tourist centre, but the objectives shifted from an attempt to recreate Baden-Baden or Cheltenham in the South Island to recreate pools for recreation rather than hot springs and use of thermal areas for recreation than Crown; others such as Tikitite, the central part of Tongariro were Mori-owned. A few were privately-owned, most notably Geyser Valley at Wairakei. It was not until after World War II that interest shifted from the value of the resource as a concessioning ownership of the resource seems to have been simply that those who owned the land on which were located geothermal springs could reliveance. The assumption seems to have been simply that those who arranged between Nathan & Co. And the Mori community at Whakarewarewa, whereby water was diverted by pipe from one of the large hot springs on Mori Land to the "Oil Baths" on Nathan's lease were made by which owners of hot springs allowed water to be used them and develop then as they wished. Private arrangements were made by which owners of hot springs allowed water to be diverted by channels or pipes as, for example, in the water lease arranged between Nathan & Co. And the Mori community at Whakarewarewa, whereby water was diverted by pipe from one of the large hot springs on Mori Land to the "Oil Baths" on Nathan's lease.

A. Introduction

6.0 THE GEOTHERMAL RESOURCE AS AN ENERGY RESOURCE: THE COMMON LAW BACKGROUND

6.1 Thus far the focus has been on the geothermal resource as a resource valued by the Government as a tourist attraction. This thinking of the resource in this way meant that legal questions concerning ownership of the resource as a tourist attraction. A resource owned by the Government as a tourist attraction. In this way seemed to have been simply that those who owned the land on which were located geothermal springs could arrange between Nathan & Co. And the Mori community at Whakarewarewa, whereby water was diverted by pipe from one of the large hot springs on Mori Land to the "Oil Baths" on Nathan's lease.

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premises. Boxes tapping into underground geothermal systems certainly must have existed prior to the enactment of the Geothermal Energy Act in 1953, but I have not found so far any material on what the legal regime governing underground geothermal waters was supposed to be in these early years. It seems safe to assume that the question was one of marginal importance.

6.2 Until the enactment of the Water and Soil Conservation Act in 1967 water in New Zealand was essentially governed by the rules of the common law. Statutory intorads such as the Water Power Act 1903 were of minor significance. The Soil Conservation and Rivers Control Act 1941 did not affect common law rights in respect of natural water. The Thermal-Springs DistRICTS Acts, as we have seen, had little to do with thermal springs per se - their principal effect was to give the Crown a monopoly of land purchase in an extensive region. The Acts did not themselves impact on common law rights to surface and underground geothermal water.

6.3 The common law never has developed a body of rules to deal with property interests in geothermal systems. This is hardly significant extent, although certainly hot springs are found there at Bath, Cheltenham and other places. Thus the common law "rules", with regard to geothermal water can only be discussed by way of analogy. Geothermal systems can create surface pools and streams and thus one analogy is the law relating to surface water. Another analogy, the one which seems to be most relevant, is the body of rules dealing specifically with percolating or groundwater. However, it has to be recognised that although geothermal systems are water systems, the geothermal resource is an energy, rather than a "water" resource. This perhaps puts as petroleum and natural gas. Lastly, geothermal systems contain

"Although certain rights as regards flowing water are incident to the ownership of riparian property, the water itself, whether flowing in a known and defined channel, or subject of property or capable of being granted to the proprietor through the soil, is not, at common law, the property of riparian owners, but it belongs to the owner of the land in which it lies."

According to Halsbury's Laws of England: -
Common law water was not something capable of ownership until it had been abstracted. Water, as such, belonged to no-one. Starting point the common law rules about water generally. At 6.6 The common law rules about groundwater have as their

C. Groundwater

the next section.
geothermal features. These points will be developed in detail in although it is hard to see this as having much relevance to the landowner. The riparian rights doctrine would apply, the water would be a trespass if committed by persons other than water in the pools on his or her land - crossing the land to take abstracted. On the other hand, only the landowner can use the landowner has no property in the water itself until it is covered by water. The result is that in terms of surface pools lakes and streams - a lake (or a geological pool) is simply land belonging to no-one until abstracted. Landowners own the beds of common law all water, whether surface water or groundwater, at 6.5 It seems unnecessary to develop this at any length. At

B. Surface Water

of the common law which may be relevant.
resources considered as water, before dealing with other aspects 1953 legislation. It will focus, firstly, on geothermal 6.4 The following section is intended as a background to the regarding mineral ownership are relevant too.

minerals in solution, which means that the common law rules

"The common law confers no rights in respect of subterranean water running in undrained or unknown channels, except that the owner of land may sink wells in his own land and so obtain a supply of water, although another owner, by doing the same, may draw off the water from his neighbours."

6.7 A key difference with the rules relating to groundwater is thus it is theft at common law to divert water from some other person's pipes: Ferens v O'Brien (1883) 11 QBD 21.

Water which has been appropriated or taken into possession from a known and defined channel is the subject of property, the right of property existing only during such possession, as is also percolating water [i.e. groundwater] which has been appropriated, even by the owner of the channel, as in a river or stream) has a right to the maintenance of the flow both as regards water quantity and water quality. It is unlawful for an upstream owner, for example, to take water from a stream, or pollute it to such an extent, that the "natural" quality and quantity of the water (from the view point of the downstream landowner) is impaired. But there is no equivalent rule relating to subsurface water. Any landowner can draw off as much subsurface water as he or she likes - even to the extent of completely depriving neighbouring landowners to any supply whatever. Halsbury again :-

But, once abstracted, the water becomes the personal property of whoever has abstracted it [i.e. - access to it.]

that it is public or common to all who have a right of

6.9 The different rules relating to surface water and groundwater did not emerge in England until the decision of the Exchequer Chamber in Acton v Blundell (1843) 12 M & W 324, 152 ER

It. the common law does not recognise any public right of access to the common law does not recognise any public right of access to landowners. Although there is no property right in groundwater, landowners, no-one can have access to groundwater except licences aside, that leases is that leases, easements and consequence of the common law rules is that leases, trespasses. One consequence is land and take groundwater would be a trespass. To move onto that anyone at common law can take groundwater. To move onto someones land and take groundwater would be a trespass. One consequence is that leases do not mean

existing users. It must be emphasised that the above rules do not mean its pure form gives no right of priority and no protection to system, if he or she is so minded. In short, the common law in move in next door and appropriate all geothermal water in those who have put down boxes or wells first. Any newcomer can negotiate; nor does the common law offer any protection to managers to abstract all the geothermal fluid in the at all). No landowner can complain if an adjoining landowner water is "appropriated" it is at that point often no longer water it (putting to one side the small problem that when geothermal property in it whatever. It belongs to whoever appropriates language of the common law) "percolating" water there is no right assuming then that geothermal water is (in the rather academic

Latteer may have enjoyed the use of the water." Furthermore, motive for doing so may be and however long the landowner may not be challenged by another, whatever the subject of prescription or grant, and its diversion by one in an unknown channel or percolating water cannot be the may draw off such water as he pleases. Furthermore, water common law to the support of such water and his neighbour water not in a known and defined channel has no right at "an owner of land under which there is subterranean

that they first took the course and direction which time: it may well be, that it is only yesterday's date, underground sources have undergone in the process of beneath its surface; no man can tell what changes these proprietor, but through the hidden veins of the earth soil does not flow openly in the sight of the neighbouring own land, the water which feeds it from a neighbouring "....[I]n the case of a well sunk by a proprietor in his

groundwater 79:-

water is known - but this cannot apply (in the Court's view) to between landowners based in turn on the fact that the flow of rights on the surface is based on a theory of mutual consent water, is inviolable and unbreakable. The doctrine of riparian firstly, the flow of underground water, as opposed to surface dismissed. The Court's reasons for so finding are interesting. riparian rights applied and therefore the plaintiff's appeal was the Court of Exchequer found that it was not. No equivalent of regulations, a watercourse flowing on the surface."

"....whether the right to the enjoyment of an underground by the same rule of law as that which applies to, and spraying, or of a well supplied by such spraying, is governed

it 78:-

before the Court of Exchequer Chamber was, as Trinidad Ct. defined insufficiency for the purposes of the mill. The legal issue this had had the effect of rendering the flow of water subsequent sink coal-pits adjacent to the plaintiff's land. plaintiff was a manufacturer, an adjoining landowner, had various underground springs to fill wells which in turn supplied spraying. The plaintiff relied on the flow of groundwater from spraying. In this case the adjoining landowner's supply of groundwater that the technology became available to seriously deprive pumps the nineteenth century and the emergence of steam-driven pumps until then - one possible explanation is that it was not until 1223. One can only guess as to why the issue had not arisen

"...If the man who sinks the well in his own land can acquire by that act an absolute and indefeasible right to prevent his neighbour from making any use of the spring the water that collects in it, he has the power of acquiring by that act an absolute and indefeasible right to the ownership of the land in which the spring is first found, or through which it is transmitted, from draining his land of the water of the land in which the spring is first found, of the well. He has the power still further of depriving in his own soil which shall interfere with the enjoyment for the purpose cultivation of the soil: and thus, by an act which is voluntary on his part, and which may be such necessity of bearing a heavy expense, entitely unsuspected by his neighbour, he may impose on it the latter has erected machinery for the purposes of mining, and discovers, when too late, that the abstraction of the water has already been made. Further, the

Landowners to effectively prevent their neighbour from using have a prior right to it was that doing so would enable the other reason for not permitting a taker of groundwater is to prevent his neighbour from making any use of the spring the water which is first found. In the view of Tindal C.J. 80:-

"...the proprietors of the soil." The underground springs or of the well may be unknown to the user of a positive law be interfered from long-continued supposed to be built; nor, for the same reason, can any foundations on which the law as to running streams is underground springs may exist, which is one of the impediment any mutual consent or agreement, for ages past, between the owners of the several lands beneath which the therefore, of the well, there can be no ground for to the well, to be any flow of water at all. In the case, draining into it, cannot properly be said, with reference until the well is sunk, and the water collected by transmission only, or how much he receives: on the contrary, soil: how much he gives originally, or how much he knows what portion of water is taken from beneath his own enabled them to supply the well: again, no proprietor

is not to be governed by the law which applies to rivers thinking that the present case, for the reasons above given, strictly to the facts stated in the bill of exceptions, we than the last twenty years; but, confining ourselves there had been an uninterrupted user of the right for more opinion whatever as to what might be the rule of law, if "It is scarcely necessary to say, that we intimate no

reasonably long period:-

an uninterrupted use of groundwater by one landowner for a possibility that a different rule might apply if there had been Blundell was that the Court of Exchequer Chamber left open the 6.10 One interesting feature of the decision in Action v

not to be actionable.

the city corporation of Bradford to purchase his land was held Landowner in deliberately abstracting water in order to compel Corporation v Pickles [1895] AC 587 where the action of a move from the Roman Law in the later decision of Bradford Digest lib. 39, tit. 3, s.12. The common law, however, was to for his own purposes (that is, was not motivated by spite): provided that the taker of the water intended to use the water neighbour even if the neighbour is deprived of the use of water - who takes groundwater for his own use is not liable to his referring to the Roman law rule. In Roman Civil Law a Landowner court took the opportunity to fortify its conclusions by Since this was the first case which had arisen on the point, the

apply if there is an interval of many miles."

from the well: it is obvious that the law must equally the nearest coal-pit is at the distance of half a mile underground spring can be confined: in the present case no limit of space within which the claim of right to an and minerals of inestimable value. And, lastly, there is of the adjoining land may be prevented from winning metals cottage, or a drinking-place for cattle; whilst the owner bear no proportion. The well may be sunk to supply a advantage on one side, and the detriment on the other, may

In Action v Blundell itself the plaintiff had sunk his wells in 1821 and the defendants constructed their mines in 1837. But the possibility that the situation might have been very different had period was something the Court was willing to leave open. It is, in fact, hard to see why this would logically make a difference for most of the reasons put forward by the Court, with the possible exception that a long-term use would presumably become known to the neighbourhood and thus that adjoining landowners might be thought to imply consent to it.

6.11 Another point relating to Action v Blundell is that one aspect of its reasoning - that groundwater flow is undiscoverable and unknowable - has only limited applicability to geothermal resources. Usually the existence of sub-surface geothermal resources is revealed by obvious surface geological features. Furthermore, since it was those (i.e. surface) features which were actually used by Maori communities - something that anyone observing the community could see - can it not be argued that adjoining

- Landowners plausibly do consent to the continuation of the use? (a) The Common Law relating to groundwater is reasonably well-settled. The water belongs to nobody reasonably until it is abstracted. When it is abstracted it becomes the property of whoever abstracted it.
- (b) One effect of the common law rules is that access to groundwater is limited to landowners to abstract groundwater (or those who obtain the consent of landowners to abstract groundwater).
- (c) On the assumption that geothermal fluid is groundwater the "Law of capture" applies to it - that is,

6.12 To recapitulate:-

Landowners plausibly do consent to the continuation of the use? (a) The Common Law relating to groundwater is reasonably well-settled. The water belongs to nobody reasonably until it is abstracted. When it is abstracted it becomes the property of whoever abstracted it.

(b) One effect of the common law rules is that access to abstract groundwater is limited to landowners to abstract groundwater (or those who obtain the consent of landowners to abstract groundwater).

(c) On the assumption that geothermal fluid is groundwater the "Law of capture" applies to it - that is,

and streams, but that it rather falls within that principle, which gives to the owner of the soil all that lies beneath his surface...."

easy to see what effect it can now have in a context where the capture is primarily a rule of property ownership, and it is not ownership of the entire resource in the Crown⁸³. The "Law of Act 1937 (now s.10 of the Crown Minerals Act 1991), which vests only marginal effect as a consequence of s.43 of the Petroleum Act 1982. In New Zealand this rule is of his own property⁸². This means that petroleum is extracted from beyond the boundaries abstracting as much of the resource as he or she can, even if this is means that petroleum is extracted from beyond the boundaries abstracted, and there is nothing to prevent a landowner "law of capture" - i.e. petroleum belongings to no-one until rules⁸¹. In the United States this is reflected in the so-called situation are themselves a derivation from common law groundwater. 6.14 The common law rules regarding ownership of petroleum in

cause the resource to become unobtainable.

facilitated extraction. In both cases loss of pressure will oil well or geothermal bore creates a low pressure point are contained in pressurised systems, so that the sinking of an valuable as energy resources. Both share the attribute that they resources are now, with the onset of modern technology, primarily valuable as energy resources. The similarity in that both the resource. There is, however, a similitude in that both petroleum or natural gas reservoir contains a finite quantity of geothermal system is possible, albeit difficult, whereas a petroleum reservoir. For one thing, sustainable management of a are obvious distinctions between a geothermal system and a

6.13 In terms of physical characteristics and properties, there

D. The Geothermal Resource and Other Energy Resources

situations.

manifolds in most, although admittedly not all, particularly since geothermal systems have obvious surface particulary very conveniently to geothermal waters, do not apply very conveniently to geothermal waters, (d) Some aspects of the reasoning in Action v Blundell

resource thus "captured".

undertaken at negligible cost, acquires property in the that however lawfully abstracts the resource, even from

subjects of His Majesty." 86
"The Legislation is comprehensive, and treats equally all

regardless of race:-

Petroleum Act 85 was such that the matter was referred to the Solicitor-General for an opinion on the point. He concluded that the Legislation did not violate the Treaty for the reason that the Act, although certainly proprietary, affected everybody

Concern about the Treaty of Waitangi implications of the water."

"Did the Maoris know that there was oil under their lands when they signed the Treaty of Waitangi in 1840? No. Nor did they know there was gold or coal under their land, or savagery was ignorant of the things that have been made and so on. Is the argument now that, because the poor value than making canoes and carvings for their houses that the timber which grew on their lands had a greater advantage from them today? If so, it will not hold possible by the Pakeha, he is to have no benefit or

1937. In the debate Sir Apirana Ngata said 84:-

Petroleum Bill made its way through Parliament throughout 1936 and property rights in petroleum was extensively discussed as the 6.15 It is important to emphasise that the issue of Maori

resources, for the common law rules appear to have been the same. After 1937 the Crown nationalised ownership of Petroleum, in the Geothermal Energy Act it achieved effectively the same result by vesting sole use rights in the Crown. Whatever the explanation for the differing approaches in 1937 and 1953, it cannot be attributed to different common law regimes governing the two petroleum bills made its way through Parliament 1936 and 1953. The key difference is that whereas in the Petroleum Act 1937 the Crown nationalised ownership of Petroleum, in the Geothermal Energy Act it achieved effectively the same result by vesting sole use rights in the Crown. Whatever the explanation for the differing approaches in 1937 and 1953, the situation is not unlike that regarding geothermal resources and replaced by a system which is essentially wholly statutory.

Resource is Crown-owned. Whatever precisely the common law

No doubt these issues will be traversed again at some stage of the Taranaki kaumātua hearings⁸⁷. The debate on the Treaty of Waitangi was mentioned not at all. Implications of the petroleum legislation represents a marked contrast with the debates on the geothermal legislation in 1952 and 1953, where Maori issues went virtually unmentioned and the Treaty of Waitangi was mentioned not at all.

E. Minerals

6.16 At common law minerals belonging to the landowner. Minerals are part of a landowner's estate in land, which theoretically extends from the heavens to the centre of the earth. Mineral ownership can be severed from the surface estate in fee simple ownership can, however, form a separate estate in a mine.

done the surface title does not, and never can, include the mineral title until this has been re-purchased. An added reservation to itselt ownership of minerals, or rights of access, completeness in New Zealand has been the Crown's practice of reserving to itself ownership of minerals, or rights of access,

or both at the time of the initial Crown grant.

6.17 Geothermal fluids usually contain minerals in solution, sometimes of commercial value quantities. At common law ownership of groundwater belongs to the landowner. What is the position when quite different assumptions - groundwater belonging to no-one, but ownership of groundwater belonging to my land by my minerals belonging to the landowner. There are two cases which have some bearing on this, neigbours? Although none were actually concerned with geological water. In Trinidad Asphalte Co. v Ambard [1899] AC 594, a decision of the Privy Council, the defendants extracted pitch from the land of a neighbouring landowner. This extraction had fairly dramatically effects, as Lord Macnaughten makes clear:-

"...the section of the stratum of pitch thus exposed to the atmosphere began to melt. The pitch oozed out and the excavation yielded abundantly. Between 200 and 300 tons of pitch were 'won', as the phrase goes. The surface of the plainiff's land sank to sink and crack. A

The Landowner here therefore had a right to support - the states that the Privy Council's conclusions "are entirely at odds with the Law of capture" 89.

Crommelin, Professor of Law at the University of Melbourne, extraction of the pitch had caused his land to subside. Michael

this case was not water." support from subterranean water, because, as the Chief Justice Lewis J. differed from Nathan J. as to the right to justice. It is not necessary to discuss the question on own use. Their Lordships agree with the Learned Chief of the lateral support of their land, passed into the defendants, land, and was appropriated by them to their defendants, which had let down the surface of the plaintiffs, and also that the plaintiffs had suffered injury by the loss consequent to the plaintiffs, house; and they had found that the defendants had mineral - not water. He found that the defendants had the point....., Asphalatum, observes the Chief Justice, is "The judgment of the Learned Chief Justice is short and to

groundwater. Said Lord Macnaughthon 88:-

In the Privy Council, much of the argument centred on whether pitch was analogous to groundwater. The Privy Council concluded that pitch, despite its fluid nature, was a mineral and belonged to the Landowner: it was not in any way analogous to groundwater. Said Lord Macnaughthon 88:-

"less recked." ([1899] AC 599).
some buildings or sheds of no great value were more or eight to ten feet long by six to eighteen inches wide, and feet. A series of cracks appeared on the surface from going back in a semicircle with a radius of about sixty five feet deep in the centre at the boundary line, and depression was formed in shape like half a saucer about

The Court of King's Bench found for the defendants. The judgment although he found for the defendants, he also stated that the Lord Alverstone CJ, is, however, not exactly helpful.

cases as to underground water were not conclusive. He fails,

contains a certain proportion of salt. " is one of degree only, not of kind; for all water equally to brine. The distinction between water and brine to appropriate percolating underground water applies

Richards (1859) 7 HLC 34] as to the right of a landowner "The rule laid down in Action v Blundell and Chasemore v

Counsel for the defendants argued in response 91:-

to water, and brine is a distinct thing from water." in percolating underground water has no application except it is equally wrong. The rule that there is no property of another, whether it be by means of a pickaxe or a pump, contrivance by which one person takes away the rock-salt defendants were guilty of a trespass in taking it. Any plaintiffiffs, salt rock, the plaintiffiffs, property, and the to which it was formed by the dissolution of the

plaintiffs argued that 90:-

defendants had been taking the plaintiffiffs, salt. Counsel for the property being dissolved and abstracted by the defendants: the operation of the mine had led to rock salt on the plaintiffiffs, salt. The Court accepted the contention of the plaintiffiffs that presenting 2,791,000 tons of commerically very valuable rock quantity of brine, something like 2093 million gallons

cheeshire. The defendants had pumped from this mine an enormous restrain the plaintiffiffs from pumping salt brine from a mine in kingdom. In this case the defendants sought an injunction to KB 822, a decision of the Court of King's Bench in the United contrasted with the Salt Union Ltd v Brunner, Mond & Co. [1906] 2

6.18 The decision in Trinidad Asphalt Co. v Ambar can be

however, to explain what the "special circumstances" of this case
..... I think that when a man puts down a shaft and pumps
in his own land (both of which acts are prima facie
lawful) the act does not of necessity become unlawful
simply because it turns out that the mine thereby
obtained may be the result of dissolution of rock in
which very great difference, but it is the best that I am
particular circumstances of the case. I state this view
another man's property. It must depend upon the
able to form after very careful and anxious consideration.
So far as one may argue from analogy, pumping of brine
under such circumstances appears to me to have more in
common with the cases of underrun water than with the
cases of support upon which the plantiffs rely, but I
have already indicated that, in my opinion, the cases as
to underrun water are not conclusive, assuming matters
courts see a difference between a subsidence such as pitch,
interesting to know what the other factors (in the view of the
find the groundwater analogy to be "conclusive" it would be
caused subsidence on the land of the plantiffs, so the cases
cannot be reconciled on that basis. Since the court declines to
find the groundwater analogy to be "conclusive" it would be
interested in what the other factors (in the view of the
court) might be. The real distinction appears to be that the
plaintiff not water, and minerals dissolved in solution in
manifesterly not water. Can a
principle suggested in the decision in Salt Union.
Landowner abstract any valuable mineral from adjoining land as
long as it is in solution form contained in groundwater? The
decision in Salt Union is potentially a very serious load on
the original quite strict rule that common law minerals
belong (with certain special exceptions, such as gold and silver)
absolutely to the landowner. It is, however, entirely in accord
with the "Law of capture" which is applied to petroleum in the
United States, which, as Crommelin points out, can in no way be

to remain in their natural condition."

".... I think that when a man puts down a shaft and pumps
in his own land (both of which acts are prima facie
lawful) the act does not of necessity become unlawful
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particular circumstances of the case. I state this view
another man's property. It must depend upon the
able to form after very careful and anxious consideration.
So far as one may argue from analogy, pumping of brine
under such circumstances appears to me to have more in
common with the cases of underrun water than with the
cases of support upon which the plantiffs rely, but I
have already indicated that, in my opinion, the cases as
to underrun water are not conclusive, assuming matters
have already indicated that, in my opinion, the cases as
causes of subsidence on the land of the plantiffs, so the cases
cannot be reconciled on that basis. Since the court declines to
find the groundwater analogy to be "conclusive" it would be
interested in what the other factors (in the view of the
court) might be. The real distinction appears to be that the
plaintiff not water, and minerals dissolved in solution in
manifesterly not water. Can a
principle suggested in the decision in Salt Union.
Landowner abstract any valuable mineral from adjoining land as
long as it is in solution form contained in groundwater? The
decision in Salt Union is potentially a very serious load on
the original quite strict rule that common law minerals
belong (with certain special exceptions, such as gold and silver)
absolutely to the landowner. It is, however, entirely in accord
with the "Law of capture" which is applied to petroleum in the
United States, which, as Crommelin points out, can in no way be

titlē?

any, is there a legal obligation on government to pay compensation for termination or restriction of abortion final
(iv) A question of compensation: To what extent, if

the rights derived from it? And
anything, can put an end to abortion final title or restriction
(iii) A question of termination or restriction: What, if

abortion final title?
actual scope and content of the rights derived from
(ii) A question of scope and content: What is the

law?
sources (procreative, judicial, legislative or other) of
abortion final title received recognition in the various
abortion final title recognised in law? To what extent has
(i) A question of legal status: To what extent is

David Elliot, a Canadian scholar, as follows:-
of uncertainties, however, which have been sufficiently identified by
the proerty right. The abortion final title rule involves a number
that is, such time as the new sovereign power has extended
and remain enforceable after a transfer of sovereignty, until,
that the property interests of "abortion final" populations survive
Zealand 94. The abortion final title is a rule of common law
decisions of the Courts in Canada, the United States and New
Mchugh of Sidney Sussex College Cambridge 93, and by important
consequence of the many publications on the subject by Dr Paul
doctrine has been brought to the fore in recent years as a
implications for the law relating to geological resources. This
to be considered is the abortion final title rule and its
6.19 The final aspect of the common law background which needs

E. The Abortion final title Rule and Geothermal Energy

reconciled with the Trinidad Asphalte case. Pitch is, after all,
a kind of petroleum.

- 6.20 It is no longer open to doubt that the aboriginal title rule is a recognised part of New Zealand law. Although Blackburn J. in the Millickum case expressed the view ((1971) FLR 141, 242) that the aboriginal title rule was not part of the law of New Zealand, just as it was not part of the law of Australia, this is certainly wrong. The leading recent case is the decision of NZLR 680. The case (like all of the relevant New Zealand cases) concerned with fishing rights, and in particular with s.88(2) which provides that "any Maori act shall affect any Maori fishing right". Williamson J. rejected the argument advanced by the Crown that "any Maori fishing right" meant only a right created by statute. He instead characterised the rights protected by s.88(2) as "customary rights", rights which must still subsist unless they have been extinguished. Of course, far from being extinguished, such regulations with taking underrived paua) specifically contained.
- Mr Tom Te Weehi (who had been charged under the fisheries customay rights were in fact preserved by s.88(2) as counsel for Williamson J. also held that such customary rights were not extinguished at the point of substitution of the native customary title with a title order pursuant to the Native Affairs Acts - as was stated in the earlier cases of Inspector of Fisheries v Weepan [1956] NZLR 920 and Keepa v Inspector of Fisheries [1965] NZLR 322. These points will be developed further below.
- It is difficult to say that the case is an unequivocal recognition of the fisheries: Mataitai: Ngā Tīkanga Mori me te Tiriti o Waitangi as expressed in its report The Treaty of Waitangi and Mori (March 1989). The Commission places primary weight on the difference between the decision in Waipapakura v Hemptoon (1914) 33 NZLR 105596:-
- 6.21 A slightly more guarded view is that of the Law Commission Fisheries: Mataitai: Ngā Tīkanga Mori me te Tiriti o Waitangi as expressed in its report The Treaty of Waitangi and Mori (March 1989). The Commission places primary primary weight on the decision in Waipapakura v Hemptoon (1914) 33 NZLR 105596:-

These issues will form the basis of the following discussion.

"Te Weehi" is authority for the view that traditional Maori fishing rights exist and are not subject to the regulatory regime of the Fisheries Act. Waipapakura held that customary rights could not receive legal recognition without legislative sanction. In Te Weehi Williamson J. preferred the view that such rights continued unless extinguished in one way or another. . . . [T]here is at least an implicit recognition of rights protected by the abortion final title question of the scope of rights protected by the abortion final title rule. In Te Weehi Williamson J. it is clear under the imprecision that the "customary rights" protected by s.88(2) are limited to that of New Zealand law (it is safe to state that it is), is the part of New Zealand law (it is safe to state that it is), is the "right limited to the Ngai Tahu tribe and its authority" uses. The right at issue, he says, is only a "traditional" uses. The right at issue, he says, is only a non-exclusive subsistence and (possibly) other clearly relatives for personal food supply". District Court decisions after Te Weehi revealed marked confusion about the scope of rights protected by the section 97. There is little indication of any protection as provided by the section 97. Quite what does the abortion final title rule mean over the meaning of the abortion final title rule, a problem which is in essence the same answer seems to be: it protects rights of use and occupancy in land, the rights being those which were "abortionally" exercised as at the point of acquisition of sovereignty and which answer seems to be: it protects rights of use and occupancy in land, the rights being those which were "abortionally" exercised as at the point of acquisition of sovereignty and which probably have been in continuous use.

6.23 There has never been an aboriginal title claim made to geothermal resources in this country (or anywhere else for that matter). None of the voluminous literature on aboriginal title even touches on geothermal resources. It is, however, hardly possible to over-emphasise the point that the critical difficulty with aboriginal title is not the existence of the rule but its scope. What is the aboriginal title in respect of geothermal resources? It is limited to the right to boil kumara in hot springs or gathei kokowai to make traditional dyes and paints?

6.24 The closest parallel to getheremal aboriginal title claims that the present author has managed to find are Indian claims to water in North America. In the western United States and Canada water is a resource of critical importance and the source of endless litigation. This has included claims by tribal groups to the aboriginal title rule. The Canadian case law is studied in detail in a valuable text by Richard H. Bartlett, *Aboriginal Water Rights in Canada: A Study of Aboriginal Title to Water and Indian Water Rights* (Calgary, 1984). In this book Bartlett draws a distinction between general aboriginal title rights to water and reservation-based claims. General aboriginal title rights to water are probably limited to the former "aboriginal" uses. This follows from his examination of the leading United States and Canadian decisions, these being Attorney-General for Ontario v The Bear Island Foundation, [1985] 1 CNTR 1 (ont SC), Guerin v The Queen 13 DLR (4th) 321, Winters v United States, 207 US 564 (1908) 52 L Ed 340, and Arizona v California 373 US 546 (1963) 10 L.Ed 2d 542. Bartlett concludes 98:-

"The analysis suggests that aboriginal title to water is confined to traditional uses, and that more extensive rights only arise upon the establishment of a reservation, whether by treaty or otherwise. This is consistent with the facts of the cases which have allowed non-traditional rights to water. All have involved reserve lands

and waters.

An analysis of the United States jurisdiction which favoured the actual decisions rather than the inconsistency of the language of the judgments suggests a conciliation, unsurprisingly, similar to that tentative conciliation, that common conciliation which is limited by traditional and historic uses. It arrived at upon examination of the Canadian decisions. It suggests that that common conciliation that abortion is a traditional and historic use. It includes water rights, but rights which are limited by tradition and history. It suggests that the common conciliation, similar to that tentative conciliation, uses because abortion is a traditional title does not include those rights. The tentative nature of this court conciliation should not be under-emphasized. It bears of Canada [in Guérin, above, DLR at 339] considered that the very exercise of attempting to describe abortion is a possibility of a radically different analysis of the leading cases is the decision in *Winters v. United States* 207 US 564 (1908), a decision of the Supreme Court of the United States. This case was concerned with the water rights of the Gros Ventre and other Indians living on the Fort Belknap reservation. The reservation was established after a Treaty had been concluded between the tribes and the Federal government which occurred before the state of Montana came into existence in 1889. The Indians and the United States formed a boundary agreement under Montana Law, appropriating water thus depriving the defendants were irrigation companies and ranchers who, acting of the reservation, a significant quantity of water. The government diverted from the Milk River, which formed a boundary even which occurred before the state of Montana came into existence in 1889. The Indians and the United States formed a boundary agreement under Montana Law, appropriating water thus depriving the Indians and the Federal government of water. The Indians and the Federal government purposes on the reservation. The United States Indians and the Federal government of water necessary for irrigation purposes on the reservation.

under no obligation to do so and the United States had benefited greatly from the transaction. Part of the arrangement was that the Indians would adopt a new kind of life on the lands reserved to them - something that could not possibly be done without access to water in volumes sufficient to irrigate the land for farming. The Indians would adopt a new kind of life on the lands reserved to them - something that could not possibly be done without access to water in volumes sufficient to irrigate the land for farming. Furthermore quite different from the rest of the population is their interest in water - something that could not possibly be done without access to water in volumes sufficient to irrigate the land for farming. The Indians would adopt a new kind of life on the lands reserved to them - something that could not possibly be done without access to water in volumes sufficient to irrigate the land for farming. The Indians would adopt a new kind of life on the lands reserved to them - something that could not possibly be done without access to water in volumes sufficient to irrigate the land for farming.

6.26 Applying this distinction to the situation in New Zealand is quite difficult. Clearly the American and Canadian law has evolved in a constitutional and jurisdictional framework which is quite different from ours. Perhaps a similar argument might, however, be made that is analogous to the Winteres approach. It could be argued that Maori freehold land is not altogether dissimilar from reservation land in the United States at least in the sense that it was implicit in the arrangements between the Crown and the tribes that Maori would be able to sustain themselves in a modern economy on their remaining blocks of land.

6.27 Questions of termination and compensation can be discussed together and relatively briefly. The aboriginal title is no more and no less than the aboriginal title subsists until

and no less than that the aboriginal title subsists until

to effectuate this, it might be argued at common law that Maori have certain priorities in terms of access to resources, including (where relevant) geothermal resources. Such an argument might succeed, but it would need considerable research and care in presentation. It should need no emphasis that these possibilities are of no particular relevance to the Waitangi Tribunal except insofar as it is necessary to understand the adequacy of the common law rules.

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the important Canadian case of Hawlett v Baker Lake Minister of the Interior where the statute exhibits a "clear and plain intention" answer is that the only lawful mode of extinguishment is by question of what constitutes lawful extinguishment. The probable extinction is that the only lawful mode of extinguishment is by statute where the statute exhibits a "clear and plain intention" to extinguish the right. In The Weehi (above) Williamson J. cited the Hawlett case of Hawlett v Baker Lake Minister of the Interior

unpredictable;

Law aboriginal title claim to geothermal resources is

(c) As a result of (a) and (b) the outcome of a common

claims;

been dealt with in New Zealand in respect of fisheries

(b) The common law rule of aboriginal title has only

respect of geothermal resources in New Zealand;

(a) There never has been a common law claim made in

6.29 Common Law Claims : Summary

in the regional councils.

Resource Management Act 1991. Management has been wholly vested

has now been repealed as a consequence of the enactment of the

needs to be emphasised too that s.3 of the Geothermal Energy Act

Finally, though this is moving into council's domain, it

the Geothermal Energy Act 1953.

to compensation, if any, were in any event excluded by s.14 of

British Columbia [1973] SCR 313. For the period 1953-1991 claims

made to Hall J., s judgment in Calder v Attorney-General of

been left open by the Supreme Court of Canada - reference is here

right of compensation for extinguishment of aboriginal title has

of compensation. In Canada the question as to whether there is a

such title. That being so it is unnecessary to discuss questions

does not manifest any "clear and plain intention" to extinguish

Maori aboriginal title in geothermal resources. The provision

the Geothermal Energy Act 1953 fails absolutely to extinguish

this to geothermal energy, it seems beyond argument that s.3 of

his adoption of the reasonably strict Baker Lake test. Applying

is the only permissible mode, but this seems to be implicit in

not actually say in so many words that statutory extinguishment

statutory extinguishment of aboriginal title. Williamson J. does

which establishes the "clear and plain intention" test for

Indian Affairs and Northern Development (1979) 107 DLR (3d),

"The past year has been one of great difficulty in the field of electricity supply. With increasing difficulty in obtaining any alternative means of supplying light, in obtaining a local manufacture wherever possible, the demand for electricity supply has continued to grow. Unfortunately, however, consequent on the war heat, and power, and in accord with the Government's general policy of encouraging local manufacture wherever there are serious delays in obtaining the necessary plant and the subsequent disorganization throughout the world, to grow.

7.1 In 1947 the Hon. R. Semple, Minister of Works and Minister in Charge of what was then called the State Hydro-Electric Department presented the department's annual report to Parliament 100. Semple began by explaining the severe difficulties the country faced in terms of adequate supplies of electricity to the country.

A. Geothermal Energy for Electric Power Generation

7.0 THE BACKGROUND TO THE 1952 AND 1953 ACTS

(e) The language used in s.3 of the Geothermal Energy Act 1953 was insufficient to extinguisch Maori interests in geothermal resources. In any event s.3 is not repeated in the Resource Management Act 1991.

(f) The scope of the aboriginal title rule is quite uncertain. In particular it is difficult to be confident about whether the Courts would restrict such a claim to "pre-European" use of the resource. Even if they did so restrict it, it is difficult to be sure about what is meant by pre-European use and whether this could extend to the development of such uses by advanced technologies;

(d) It is reasonably clear that the common law of New Zealand is part of New Zealand law - which makes aboriginal title is closer to Canada and the United States than it is to Australia;