26-LS1346\S Bullock 3/26/10

CS FOR SENATE BILL NO. 243()

IN THE LEGISLATURE OF THE STATE OF ALASKA

TWENTY-SIXTH LEGISLATURE - SECOND SESSION

BY

Offered: Referred:

Sponsor(s): SENATOR MCGUIRE

A BILL

FOR AN ACT ENTITLED

"An Act relating to geothermal resources; relating to the royalty obligation for
 geothermal resources; transferring from the Department of Natural Resources to the
 Alaska Oil and Gas Conservation Commission authority over permitting and inspection
 of geothermal wells; providing for a regulatory cost charge for geothermal wells; and
 providing for an effective date."

6 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

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* Section 1. AS 31.05.030 is amended by adding a new subsection to read:

(m) The commission has jurisdiction and authority over all persons and property, public and private, necessary to carry out the purposes and intent of AS 41.06, except for provisions in AS 41.06 for which the Department of Natural Resources has jurisdiction.

* Sec. 2. AS 38.05.181(g) is amended to read:

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(g) Each geothermal lease shall be conditioned upon payment by the lessee of

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1	a royalty of <u>1.75</u>	percent [NOT LESS THAN 10 PERCE	NT BUT NOT MORE
2	THAN 15 PERCE	NT] of the gross revenues derived from the	production, sale, or use
3	of geothermal res	ources under the lease during the first	10 years immediately
4	following the dat	e the geothermal resource first generate	s gross income and 3.5
5	percent of the g	gross revenues derived from the produ	iction, sale, or use of
6	geothermal resou	<u>urces under the lease after that first 10</u>	-year period. Royalties
7	may be taken in ki	nd rather than in value if the commissioner	determines that taking in
8	kind would be in t	he best interest of the state.	
9	* Sec. 3. AS 41.06 is an	nended by adding a new section to read:	
10	Sec. 41.06	.005. Jurisdiction over geothermal resour	ces. (a) The commission
11	has jurisdiction ur	nder this chapter over geothermal wells to	prevent waste, to protect
12	correlative rights,	and to ensure public safety.	
13	(b) The D	Department of Natural Resources has jurisd	iction under this chapter
14	over management	of geothermal leases and units in the pub	lic interest and to effect
15	development.		
16	* Sec. 4. AS 41.06.010	is amended to read:	
17	Sec. 41.06	.010. Waste prohibited <u>; investigation</u> . T	The waste of geothermal
18	resources in the s	tate is prohibited. The commission may in	nvestigate to determine
19	whether waste ex	<u>kists or is imminent, or whether other fa</u>	<u>ects exist that justify or</u>
20	require action by	the commission to prohibit waste.	
21	* Sec. 5. AS 41.06.020	is repealed and reenacted to read:	
22	Sec. 41.06	.020. Authority of commission; applicati	ion. (a) The commission
23	has jurisdiction o	ver all persons and property, public and pr	ivate, necessary to carry
24	out the purposes a	nd intent of this chapter.	
25	(b) The a	uthority of the commission applies to all l	and in the state lawfully
26	subject to the pol	ice power of the state, including private la	nd, municipal land, state
27	land, land of the	United States, and land subject to the ju	risdiction of the United
28	States, and to all 1	and included in a voluntary cooperative or	unit plan of development
29	or operation enter	ed into in accordance with AS 38.05.181. V	When land that is subject
30	to the commission	's authority is committed to a unit agreeme	nt involving land subject
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31	to federal jurisdic	tion, the operation of this chapter or a par	t of this chapter may be

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1		suspended if		
2		-	(1) the unit operations are regulated by the United Sta	ates; and
3			(2) the conservation of geothermal resources is accord	nplished under the
4		unit agreement		
5		(c) Thi	s chapter applies	
6			(1) to wells drilled in search of, in support of, or f	or the recovery or
7		production of g	geothermal resources;	
8			(2) when a person engaged in drilling activity not of	therwise subject to
9		the provisions	of this chapter encounters geothermal resources,	fluid, or water of
10		sufficient heat	or pressure to constitute a threat to human life or	health unless the
11		drilling operat	ion is subject to oil and gas drilling regulation under A	NS 31.05;
12	(3) in areas and under conditions in which the commission determines			nission determines
13	that drilling may encounter geothermal resources, fluid, or water of sufficient heat or			f sufficient heat or
14		pressure to con	nstitute a threat to human life or health.	
15	(d) To the extent the provisions of AS 31.05 do not conflict with the			conflict with the
16		provisions of t	his chapter, the provisions of AS 31.05 are applicable	e to wells drilled in
17		search of, in su	apport of, or for the recovery or production of geother	mal resources.
18		(e) No	thing in this chapter limits the authority of the departr	nent
19			(1) over geothermal resources under AS 38.05.181; o	or
20			(2) to approve and manage geothermal units or oper	rations that include
21		state land.		
22	* Se		030(a) is amended to read:	
23			he commissioner shall require the filing and appr	ľ
24	development and operation on <u>a</u> [EACH PRODUCING] geothermal system <u>tha</u>			
25	includes state land [AND MAY ISSUE WELL-SPACING AND POOLINC			
26			MITS ON PRODUCTION, AND REINJECTION R	-
27			TO PREVENT WASTE, PROMOTE MAXIMI	UM ECONOMIC
28	. ~		AND PROTECT CORRELATIVE RIGHTS].	
29	* Se		030(b) is amended to read:	
30			ssees of all or part of a geothermal system that includ	
31		enter into a u	nit agreement for cooperative development, with the	ne approval of the
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1	commissioner. The commissioner may suspend or modify the approved development
2	plan in accordance with the unit agreement.
3	* Sec. 8. AS 41.06.030(c) is amended to read:
4	(c) If the owners of at least two-thirds of the leasehold interests in a
5	geothermal system ratify a unit agreement approved under (b) of this section by the
6	commissioner, the commissioner may enforce the agreement as to lessees not a party
7	to the agreement by allocating production under the principle of correlative rights and
8	by apportioning costs and revenues.
9	* Sec. 9. AS 41.06.030 is amended by adding a new subsection to read:
10	(e) The commissioner may adopt regulations under AS 44.62 to carry out the
11	purposes and intent of this chapter for duties assigned to the department, including the
12	promotion of maximum economic recovery.
13	* Sec. 10. AS 41.06 is amended by adding a new section to read:
14	Sec. 41.06.035. Reservoir management; commission's regulations. (a) The
15	commission may issue well-spacing and pooling orders, place limits on production,
16	and impose reinjection requirements for the purpose of preventing waste and to protect
17	correlative rights in a geothermal system.
18	(b) The commission may adopt regulations under AS 44.62 and issue orders
19	appropriate to carry out the purposes and intent of this chapter for duties assigned to
20	the commission, including orders regarding the establishment of drilling units for
21	pools as set out in AS 31.05.100 and orders regarding unitized operation and
22	integration of interests as set out in AS 31.05.110.
23	* Sec. 11. AS 41.06.040(a) is repealed and reenacted to read:
24	(a) The commission shall adopt regulations under AS 44.62 (Administrative
25	Procedure Act), issue orders, and take other appropriate action to carry out the
26	purposes and intent of this chapter, including adopting regulations to prevent
27	(1) geothermal resources, water or other fluids, and gases from
28	escaping into strata other than that in which they are found, unless in accordance with
29	an approved reinjection program;
30	(2) contamination of surface and groundwater;
31	(3) premature degradation of a geothermal system by water

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1	encroachment or othe	rwise:	
2	(4) blc	wouts, cavings, and seepage; and	
3	(5) un	reasonable disturbance or injury to net	ighboring properties, prior
4		or gas rights, human life, health, and th	
5	* Sec. 12. AS 41.06.040(b)	is amended to read:	
6	(b) The <u>co</u>	mmission [COMMISSIONER] shall	require [CAUSE] the
7	operator of a geothern	nal well [OR WELLS] to file adequat	e <u>an</u> individual or blanket
8	surety <u>bond</u> [BOND	S] to ensure compliance with regula	ations adopted under this
9	section.		
10	* Sec. 13. AS 41.06.040(c)	is amended to read:	
11	(c) The <u>com</u> r	nission [COMMISSIONER] shall requ	uire a geothermal operator
12	to notify the comm	ission [DEPARTMENT] if the oper	ator discovers significant
13	quantities of hydrocar	bon substances, helium, or fissionable	materials.
14	* Sec. 14. AS 41.06.040(d)	is amended to read:	
15	(d) The <u>com</u>	mission and its staff [COMMISSION	NER] may enter upon any
16	property, public or p	rivate, to inspect a geothermal opera	tion for compliance with
17	regulations adopted u	nder this section.	
18	* Sec. 15. AS 41.06.050 is	repealed and reenacted to read:	
19	Sec. 41.06.05	0. Permits to drill. (a) A person sha	ll apply for and receive a
20	permit from the comn	nission before drilling a well in	
21	(1) sea	arch of geothermal resources; or	
22	(2) suj	pport of the recovery or production of g	geothermal resources.
23	(b) The app	lication required in (a) of this sectio	n must contain sufficient
24	information to enable	e the commission to determine if the	operation of the well will
25	interfere with or impa	ir a prior water, oil, or gas right.	
26	(c) A person	must submit a separate permit appli	cation for each well. The
27	permit application m	ust be in the form or format required	d by the commission and
28	include all informatio	n required by the commission.	
29	(d) As soon	as practicable after receiving an app	lication under (a) of this
30	section, the commissi	on shall approve or deny the application	n for a permit to drill.
31	(e) In making	the determination under (d) of this sec	tion, the commission shall

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consider whether the

(1) proposed well will significantly interfere with or substantially impair a prior water, oil, or gas right;

(2) proposed well is contrary to a provision of this chapter, a regulation adopted by the commission, another law, or an order, stipulation, or term of a permit issued by the commission; and

(3) applicant is in violation of a provision of this chapter, a regulation adopted by the commission, another law, or an order, stipulation, or term of a permit issued by the commission; the commission shall consider the magnitude of the violation.

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* Sec. 16. AS 41.06 is amended by adding a new section to read:

(1) plugged and abandoned; and

Sec. 41.06.055. Regulatory cost charge for geothermal wells. (a) Each person that, on the first day of a state fiscal year, operates a well within the jurisdiction of the commission for which a permit to drill has been issued under AS 41.06.050 shall pay to the commission an annual regulatory charge for each well that has not, before the first day of that state fiscal year, been

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(2) reported as abandoned in accordance with regulations of the commission.

(b) The commission shall annually determine the regulatory cost charge to be paid under this section. The regulatory cost charge to be paid by a person for a state fiscal year must be based on the total volume during the most recent calendar year for the wells described in (a) of this section of which the person was the operator on the first day of the fiscal year as a percentage of the total volume during the same calendar year for all wells described in (a) of this section. In this subsection, "total volume" means the sum of the volume of all geothermal resources produced from a well and all fluids and substances injected or otherwise artificially introduced into the well.

(c) The commission shall determine the regulatory cost charges levied under this section so that the total amount to be collected approximately equals the appropriations made for the operating costs of the commission that have been incurred under this chapter for the fiscal year.

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1 (d) The commission shall collect the regulatory cost charges imposed under this section. The Department of Administration shall identify the amount of 2 appropriations made for the operating costs of the commission under this chapter that 3 4 lapse into the general fund each year. The legislature may appropriate an amount that is at least equal to the lapsed amount to the commission for its operating costs under 5 this chapter for the next fiscal year. If the legislature makes an appropriation to the 6 7 commission under this subsection that is equal to or greater than the lapsed amount, the commission shall reduce the total regulatory cost charge collected for that fiscal 8 9 year by a comparable amount. 10 (e) The commission may adopt regulations relating to the investigation of the accuracy of reported information and for collecting required payments under this 11 12 section. * Sec. 17. AS 41.06.060 is repealed and reenacted to read: 13 14 Sec. 41.06.060. Definitions. In this chapter, unless the context otherwise requires, 15 "commission" means the Alaska Oil and Gas Conservation 16 (1)17 Commission created under AS 31.05.005; (2) "correlative rights" means the right of an owner of each property in 18 a geothermal system to produce without waste the owner's just and equitable share of 19 the geothermal resources in the geothermal system; a just and reasonable share is an 2021 amount, so far as can be practically determined and so far as can be practically 22 produced without waste, that is substantially in proportion to the quantity of recoverable geothermal resources under the owner's property relative to the total 23 recoverable geothermal resources in the geothermal system; 24 (3) "geothermal fluid" means liquids and steam at temperatures greater 25 than 120 degrees Celsius or any commercial use of liquids and steam naturally present 26 in a geothermal system at temperatures less than 120 degrees Celsius; 27 (4) "geothermal resources" 28 (A) means the natural heat of the earth at temperatures greater 29 than 120 degrees Celsius, or any use of that heat for commercial purposes, 30 measured at the point where the highest-temperature resources encountered 31

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enter or contact a well or other resource extracti	on device or any commercial
use of the natural heat of the earth;	

(B) includes

(i) the energy, including pressure, in whatever form present in, resulting from, created by, or that may be extracted from that natural heat;

> (ii) the material medium, including steam and other gases, hot water, and hot brines constituting the geothermal fluid naturally present, as well as substances artificially introduced to serve as a heat transfer medium; and

(iii) all dissolved or entrained minerals and gases that
 may be obtained from the material medium, but excluding hydrocarbon
 substances and helium;

(5) "geothermal system" means a stratum, pool, reservoir, or other geologic formation containing geothermal resources;

(6) "operator" means a person drilling, maintaining, operating, producing, or in control of a well;

(7) "owner" means the person who has the right to drill into or produce from a geothermal system and to appropriate the geothermal resources produced from a geothermal system for that person and others;

(8) "waste" means, in addition to its ordinary meaning, physical waste, and includes an inefficient, excessive, or improper production, use, or dissipation of geothermal resources, including

(A) drilling, transporting, or storage methods that cause or tend to cause unnecessary surface loss of geothermal resources;

(B) locating, spacing, drilling, equipping, operating, producing, or venting of a well in a manner that results or tends to result in reducing the ultimate economic recovery of geothermal resources;

(9) "well" means a well drilled, converted, or reactivated for the discovery, testing, production, or subsurface injection of geothermal resources.
 * Sec. 18. AS 41.06.030(d) and 41.06.040(e) are repealed.

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* Sec. 19. The uncodified law of the State of Alaska is amended by adding a new section to read:

APPLICABILITY: AMENDMENT OF EXISTING LEASES. (a) Section 2 of this Act applies to a lease for a geothermal resource or the renewal of a lease for a geothermal resource entered into on or after the effective date of sec. 2 of this Act.

(b) The commissioner of natural resources shall offer the royalty rates in AS 38.05.181(g), as amended by sec. 2 of this Act, as an amendment to a lease or a renewal of a lease entered into before the effective date of sec. 2 of this Act.

* Sec. 20. The uncodified law of the State of Alaska is amended by adding a new section to read:

11 TRANSITION: REGULATIONS. (a) To the extent the regulations are not 12 inconsistent with the language and purposes of this Act, regulations relating to geothermal 13 wells adopted by the Department of Natural Resources under AS 41.06 before July 1, 2010, 14 remain in effect as valid regulations implementing this Act. The Alaska Oil and Gas 15 Conservation Commission may administer and enforce regulations previously adopted under 16 AS 41.06 relating to geothermal wells until the Alaska Oil and Gas Conservation Commission 17 adopts regulations in accordance with this Act.

(b) The Alaska Oil and Gas Conservation Commission may immediately proceed to
adopt regulations necessary to implement the changes made by this Act. The regulations take
effect under AS 44.62 (Administrative Procedure Act), but not before July 1, 2010.

* Sec. 21. The uncodified law of the State of Alaska is amended by adding a new section to
read:

REVISOR'S INSTRUCTIONS. The revisor of statutes is instructed to change the
 catchline of AS 41.06.030 from "Reservoir management" to "Unitization."

* Sec. 22. Section 20 of this Act takes effect immediately under AS 01.10.070(c).

* Sec. 23. Except as provided in sec. 22 of this Act, this Act takes effect July 1, 2010.

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