

Tab 1	SB 1128 by Diaz; (Identical to H 00721) Emotional Support Animals
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Tab 3	SPB 7064 by AG; Fracking
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320578	A	S	WD	AG, Broxson	Delete L.33 - 35:	03/11 04:09 PM
293088	A	S	FAV	AG, Albritton	btw L.35 - 36:	03/11 04:09 PM
926982	A	S	L FAV	AG, Albritton	Delete L.35:	03/11 04:09 PM

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

AGRICULTURE
Senator Albritton, Chair
Senator Gainer, Vice Chair

MEETING DATE: Monday, March 11, 2019**TIME:** 1:30—3:30 p.m.**PLACE:** 301 Senate Building**MEMBERS:** Senator Albritton, Chair; Senator Gainer, Vice Chair; Senators Broxson, Montford, and Rader

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
1	SB 1128 Diaz (Identical H 721)	Emotional Support Animals; Providing that an individual with a disability who has an emotional support animal or obtains an emotional support animal is entitled to full and equal access to all housing accommodations; prohibiting a housing accommodation from requiring such individual to pay extra compensation for such animal; specifying that an individual with a disability is liable for certain damage done by her or his emotional support animal, etc. AG 03/11/2019 Favorable IT RC	Favorable Yeas 5 Nays 0
2	Update on the Florida Citrus Recovery Block Grant by the Florida Division of Emergency Management		Presented
Consideration of proposed bill:			
3	SPB 7064	Fracking; Defining the term "fracking"; prohibiting fracking in this state; providing that permits for drilling or operating a well do not authorize fracking, etc.	Submitted and Reported Favorably as Committee Bill Yeas 3 Nays 2
Other Related Meeting Documents			

The Florida Senate
BILL ANALYSIS AND FISCAL IMPACT STATEMENT

(This document is based on the provisions contained in the legislation as of the latest date listed below.)

Prepared By: The Professional Staff of the Committee on Agriculture

BILL: SB 1128

INTRODUCER: Senator Diaz

SUBJECT: Emotional Support Animals

DATE: March 11, 2019

REVISED: _____

ANALYST	STAFF DIRECTOR	REFERENCE	ACTION
1. Akhavein	Becker	AG	Favorable
2. _____	_____	IT	_____
3. _____	_____	RC	_____

I. Summary:

SB 1128 defines an emotional support animal as an animal that is not required to be trained to assist an individual with a disability. By virtue of its presence, it provides support to alleviate symptoms or effects of an individual's disability.

The bill provides that an individual with a disability who needs an emotional support animal is entitled to full and equal access to all housing accommodations. The bill authorizes a housing accommodation to request certain written documentation prepared by a health care practitioner which verifies that the individual has a disability or a disability-related need, has been under the practitioner's care, and that the emotional support animal is needed. Falsification of written documentation or other misrepresentation regarding the use of an emotional support animal would be a misdemeanor of the second degree.

II. Present Situation:

Americans with Disabilities Act

The Americans with Disabilities Act (ADA)¹ prohibits discrimination against individuals with disabilities² in employment,³ in the provision of public services,⁴ and in public accommodations and businesses.⁵ One of the requirements of the ADA is that public entities and businesses

¹ 42 U.S.C. s. 12101 *et seq.*

² Under the ADA, a disability is broadly defined to mean a physical or mental impairment that substantially limits the major life activities of an individual. 42 U.S.C. s. 12102(1).

³ 42 U.S.C. s. 12112.

⁴ 42 U.S.C. s. 12132.

⁵ 42 U.S.C. s. 12182.

provide reasonable accommodations to disabled individuals accompanied by a service animal in all areas that are open to the public.⁶

A “service animal” is defined as a dog that is individually trained to do work or perform tasks for an individual with a disability, including a physical, sensory, psychiatric, intellectual, or other mental disability.⁷ The work or tasks performed by a service dog must be directly related to the individual’s disability.⁸ Emotional support, comfort, and companionship provided by a dog, even for therapeutic or medical purposes, are insufficient to classify it as a service animal.⁹

Service dogs must be harnessed or leashed, unless doing so interferes with the dog’s work or the individual’s disability prevents doing so.¹⁰ A person with a disability cannot be asked to remove his or her service dog from the premises, unless it is out of control and the dog’s handler does not take action to control it, or if the dog is not housebroken.¹¹ However, if the dog is removed under such circumstances, the business or public entity must still allow the individual with a disability the opportunity to remain at the business or public entity without the service dog.¹²

Generally, when it is clear that a dog is trained to do work or perform tasks (such as a guide dog), a business or public entity may not ask about the necessity of the service dog. If it is not obvious what service or task the dog is providing, extremely limited questions are allowed: staff may only ask if a service dog is required because of a disability, and what tasks the dog has been trained to perform.¹³ Any other questions, including the nature and extent of the person’s disability or medical documentation, are prohibited.¹⁴

Although the definition of a service animal is limited to dogs, the ADA contains an additional provision related to miniature horses that have been individually trained to work or perform tasks for people with disabilities.¹⁵ Miniature horses are an alternative to individuals with disabilities who may be allergic to dogs; miniature horses also have life spans considerably longer than dogs and are generally stronger than most dogs.¹⁶ Similar to the requirements for service dogs, public entities and public accommodations and businesses must permit the use of a miniature horse by a person with a disability where reasonable. In determining whether permitting a miniature horse is reasonable, a facility must consider four factors: whether the miniature horse is housebroken; whether the miniature horse is under the owner’s control; whether the facility can accommodate

⁶ 28 C.F.R. ss. 36.302(a) and (c)(7) and 35.136(a) and (g).

⁷ 28 C.F.R. ss. 35.104 and 36.104.

⁸ *Id.*

⁹ *Id.*; ADA National Network, *Service Animals and Emotional Support Animals: Where are they allowed and under what conditions?*, 3 (2014), available at [http://adata.org/sites/adata.org/files/files/Service_Animal_Booklet_2014\(1\).pdf](http://adata.org/sites/adata.org/files/files/Service_Animal_Booklet_2014(1).pdf) (Last visited March 6, 2019).

¹⁰ 28 C.F.R. ss. 35.136(d) and 36.302(b)(4).

¹¹ 28 C.F.R. ss. 35.136(b) and 36.302(c)(2).

¹² 28 C.F.R. ss. 35.136(c) and 36.302(c)(3).

¹³ 28 C.F.R. ss. 35.136(f) and 36.302(c)(6).

¹⁴ *Id.*

¹⁵ 28 C.F.R. ss. 35.136(i) and 36.302(c)(9). Miniature horses generally range in height from 2 to 3 feet to the shoulders and weigh between 70 and 100 pounds. U.S. Dep’t of Justice, Civil Rights Division, *Service Animals*, 3 (July 2011), available at http://www.ada.gov/service_animals_2010.pdf (Last visited March 6, 2019).

¹⁶ U.S. Dep’t. of Justice, *Americans with Disabilities Act Title III Regulations: Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities*, 96 (Sept. 15, 2010) available at http://www.ada.gov/regs2010/titleIII_2010/titleIII_2010_regulations.pdf (Last visited March 6, 2019).

the miniature horse's type, size, and weight; and whether the miniature horse's presence will compromise safety requirements.¹⁷

If a business or public entity violates the ADA, a private party may file suit to obtain a court order to stop the violation. No monetary damages will be available in such suits; however, reasonable attorney's fee may be awarded.¹⁸ Individuals may also file complaints with the U.S. Attorney General who is authorized to bring lawsuits in cases of general public importance or where a "pattern or practice" of discrimination is alleged. In suits brought by the Attorney General, monetary damages and civil penalties may be awarded. Civil penalties may not exceed \$50,000 for a first violation or \$100,000 for any subsequent violation.¹⁹

Fair Housing Act

The federal Fair Housing Act (FHA)²⁰ prohibits discrimination against a person with a disability in the sale or rental of housing.²¹ Similar to the ADA, the FHA also requires a landlord to provide reasonable accommodations, including permitting the use of service animals, to a person with a disability.²² However, unlike the ADA, which does not require reasonable accommodations for emotional support animals, accommodation of untrained emotional support animals may be required under the FHA if such an accommodation is reasonably necessary to allow a person with a handicap an equal opportunity to enjoy and use housing.²³ A reasonable accommodation may include waiving a no-pet rule or a pet deposit.²⁴

A landlord may not ask about the existence, nature, and extent of a person's disability. However, an individual with a disability who requests a reasonable accommodation may be asked to provide documentation so that the landlord can properly review the accommodation request. They can ask a person to certify, in writing, that the tenant or a member of his or her family is a person with a disability; the need for the animal to assist the person with that specific disability; and that the animal actually assists the person with a disability.²⁵

Florida Service Animal Law

Section 413.08, F.S., is Florida's companion to the ADA and FHA provisions regarding service animals, and while the three are broadly similar, s. 413.08, F.S., contains some significant differences from the ADA and the FHA. Consequently, businesses and public entities in Florida that comply with Florida law may be in violation of the ADA or the FHA.

¹⁷ 28 C.F.R. ss. 35.136(i) and 36.302(c)(9).

¹⁸ 42 U.S.C. ss. 12188 and 2000a-3.

¹⁹ 42 U.S.C. s 12188.

²⁰ 42 U.S.C. s. 3601 *et seq.*

²¹ 42 U.S.C. s. 3604(f).

²² *Id.*; 24 C.F.R. 5.303.

²³ Pet Ownership for the Elderly and Persons With Disabilities, 73 Fed Reg. 63834, 63836 (Oct. 27, 2008); *see, Fair Housing of the Dakotas, Inc. v. Goldmark Prop. Mgmt., Inc.*, 778 F. Supp. 2d 1028, 1036 (D.N.D. 2011) (finding that "the FHA encompasses all types of assistance animals regardless of training . . ."); *Overlook Mut. Homes, Inc. v. Spencer*, 666 F. Supp. 2d 850, 859 (S.D. Ohio 2009).

²⁴ *See* 24 C.F.R. s. 100.204 (Example (1)); *Intermountain Fair Housing Council v. CVE Falls Park, L.L.C.*, 2011 WL 2945824 (D. Idaho 2011); *Bronk v. Ineichen*, 54 F. 3d 425, 429 (7th Cir. 1995).

²⁵ 73 Fed Reg. 63834.

Section 413.08, F.S., provides that an individual with a disability is entitled to equal access in public accommodations,²⁶ public employment,²⁷ and housing.²⁸ An “individual with a disability” means a person who is deaf, hard of hearing, blind, visually impaired, or otherwise has a physical impairment that substantially limits one or more major life activities.²⁹ Unlike the ADA and FHA, this definition does not include mental impairment, which includes such mental or psychological disorders as panic disorders or posttraumatic stress disorder. Consequently, s. 413.08, F.S., is narrower in scope than the ADA and FHA.

Under s. 413.08, F.S., an individual with a disability has the right to be accompanied by a trained service animal in all areas of public accommodations that the public is normally allowed to occupy.³⁰ However, unlike the ADA, s. 413.08, F.S., does not require a public accommodation to provide reasonable accommodations to such individuals.

Section 413.08, F.S., defines “service animal” broadly to mean “an animal that is trained to perform tasks for an individual with a disability,” and does not limit service animals only to dogs as in the ADA.³¹ Additionally, because the definition of “individual with a disability” under s. 413.08, F.S., does not include mental impairment, an animal that is trained to perform work or tasks for an individual with a mental impairment is not considered a service animal under s. 413.08, F.S., as it would be under the ADA. Section 413.08, F.S., also does not provide for the use of miniature horses by individuals with disabilities.

Similar to the ADA, s. 413.08, F.S., provides that documentation that a service animal is trained is not a precondition for providing service, though a public accommodation may ask if an animal is a service animal and what tasks it is trained to perform.³² However, unlike the ADA, s. 413.08, F.S., does not prohibit asking about the nature or extent of an individual’s disability nor does it require the service animal be under the control of its handler and have a harness or leash. Although s. 413.08, F.S., permits a public accommodation to exclude or remove a service animal if its behavior poses a direct threat to the health and safety of others,³³ unlike the ADA it does not specify that a public accommodation may remove a service animal if it is out of control or not housebroken.

Like the FHA, under s. 413.08, F.S., an individual with a disability is entitled to rent or purchase any housing accommodations subject to the same conditions that are applicable to everyone.³⁴ An individual with a disability who has a service animal is entitled to full and equal access to all housing accommodations, and may not be required to pay extra compensation for the service

²⁶ Section 413.08(2), F.S. “Public accommodation” means “a common carrier, airplane, motor vehicle, railroad train, motor bus, streetcar, boat, or other public . . . transportation; hotel; lodging place; place of public accommodation, amusement, or resort; and other places to which the general public is invited” Section 413.08(1)(c), F.S.

²⁷ Section 413.08(5), F.S.

²⁸ *Id.* at (6).

²⁹ *Id.* at (1)(b).

³⁰ *Id.* at (3).

³¹ *Id.* at (1)(d).

³² *Id.* at (3)(a).

³³ *Id.* at (3)(e).

³⁴ *Id.* at (6).

animal.³⁵ Unlike the FHA, s. 413.08, F.S., does not provide an individual with a disability who has an emotional support animal with the same housing accommodation rights as an individual with a disability who has a service animal.

Section 413.08, F.S., provides that any person who denies or interferes with the rights of a person with a disability or an individual training a service animal commits a second-degree misdemeanor.³⁶

III. Effect of Proposed Changes:

Section 1 amends s. 413.08, F.S., to define the term “emotional support animal.” It expands the rights and responsibilities of an individual with a disability to include using an emotional support animal. The bill outlines those rights and responsibilities as:

- An individual with a disability who has an emotional support animal or obtains an emotional support animal is entitled to full and equal access to all housing accommodations.
- A housing accommodation may not require such individual to pay extra compensation to live with an emotional support animal.
- A housing accommodation is authorized to request certain written documentation prepared by a health care practitioner which verifies that the individual has a disability or a disability-related need, has been under the practitioner’s care, and that the emotional support animal is needed.
- The Department of Health is authorized to adopt rules to administer the provisions of the bill.
- An individual with a disability is liable for certain damage done by her or his emotional support animal.
- Falsification of written documentation or other misrepresentation regarding the use of an emotional support animal is a misdemeanor of the second degree.

Section 2 provides that this act shall take effect July 1, 2019.

IV. Constitutional Issues:

A. Municipality/County Mandates Restrictions:

None.

B. Public Records/Open Meetings Issues:

None.

C. Trust Funds Restrictions:

None.

³⁵ *Id.* at (6)(b).

³⁶ A second-degree misdemeanor is punishable by up to 60 days in jail or a fine up to \$500. Sections 775.082(4)(b) and 775.083(1)(e), F.S.

D. State Tax or Fee Increases:

None.

E. Other Constitutional Issues:

None identified.

V. Fiscal Impact Statement:

A. Tax/Fee Issues:

None.

B. Private Sector Impact:

None.

C. Government Sector Impact:

None.

VI. Technical Deficiencies:

None.

VII. Related Issues:

None.

VIII. Statutes Affected:

This bill amends section 413.08 of the Florida Statutes.

IX. Additional Information:

A. Committee Substitute – Statement of Changes:

(Summarizing differences between the Committee Substitute and the prior version of the bill.)

None.

B. Amendments:

None.

By Senator Diaz

36-01735-19

20191128__

A bill to be entitled

An act relating to emotional support animals; amending s. 413.08, F.S.; revising and providing definitions; providing that an individual with a disability who has an emotional support animal or obtains an emotional support animal is entitled to full and equal access to all housing accommodations; prohibiting a housing accommodation from requiring such individual to pay extra compensation for such animal; authorizing a housing accommodation to request certain written documentation under certain circumstances; authorizing the Department of Health to adopt rules; specifying that an individual with a disability is liable for certain damage done by her or his emotional support animal; prohibiting the falsification of written documentation or other misrepresentation regarding the use of an emotional support animal; providing penalties; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Present paragraphs (a) through (d) of subsection (1) of section 413.08, Florida Statutes, are redesignated as paragraphs (b) through (e), respectively, present paragraph (d) of subsection (1) and paragraph (b) of subsection (6) are amended, a new paragraph (a) is added to subsection (1), and subsection (10) is added to that section, to read:

413.08 Rights and responsibilities of an individual with a disability; use of a service animal or an emotional support

Page 1 of 4

CODING: Words ~~stricken~~ are deletions; words underlined are additions.

36-01735-19

20191128__

animal; prohibited discrimination in public employment, public accommodations, and housing accommodations; penalties.—

(1) As used in this section and s. 413.081, the term:

(a) "Emotional support animal" means an animal that does not require training to do specific work or perform special tasks for an individual with a disability but, by virtue of its presence, provides support to alleviate one or more identified symptoms or effects of an individual's disability.

~~(e)-(d)~~ "Service animal" means an animal that is trained to do work or perform tasks for an individual with a disability, including a physical, sensory, psychiatric, intellectual, or other mental disability. The work done or tasks performed must be directly related to the individual's disability and may include, but are not limited to, guiding an individual who is visually impaired or blind, alerting an individual who is deaf or hard of hearing, pulling a wheelchair, assisting with mobility or balance, alerting and protecting an individual who is having a seizure, retrieving objects, alerting an individual to the presence of allergens, providing physical support and assistance with balance and stability to an individual with a mobility disability, helping an individual with a psychiatric or neurological disability by preventing or interrupting impulsive or destructive behaviors, reminding an individual with mental illness to take prescribed medications, calming an individual with posttraumatic stress disorder during an anxiety attack, or doing other specific work or performing other special tasks. A service animal is not a pet. For purposes of subsections (2), (3), and (4), the term "service animal" is limited to a dog or miniature horse. The crime-deterrent effect of an animal's

Page 2 of 4

CODING: Words ~~stricken~~ are deletions; words underlined are additions.

36-01735-19

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59 presence and the provision of emotional support, well-being,
60 comfort, or companionship do not constitute work or tasks for
61 purposes of this definition.

62 (6) An individual with a disability is entitled to rent,
63 lease, or purchase, as other members of the general public, any
64 housing accommodations offered for rent, lease, or other
65 compensation in this state, subject to the conditions and
66 limitations established by law and applicable alike to all
67 persons.

68 (b) 1. An individual with a disability who has a service
69 animal or who obtains a service animal is entitled to full and
70 equal access to all housing accommodations provided for in this
71 section, and such ~~individual a person~~ may not be required to pay
72 extra compensation for such animal. This subparagraph does not
73 apply to an emotional support animal.

74 2.a. An individual with a disability who has an emotional
75 support animal or who obtains an emotional support animal is
76 entitled to full and equal access to all housing accommodations
77 provided for in this section, and such individual may not be
78 required to pay extra compensation for such animal. If an
79 individual's disability or disability-related need is not
80 readily apparent to a housing accommodation, the housing
81 accommodation may request written documentation prepared by a
82 health care practitioner, as defined in s. 456.001, which
83 verifies that the individual has a disability or a disability-
84 related need and has been under the practitioner's care or
85 treatment for such disability or need, and the animal provides
86 support to alleviate one or more identified symptoms or effects
87 of the individual's disability or disability-related need.

36-01735-19

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88 b. The written documentation, as specified in sub-
89 subparagraph a., must be prepared in a format prescribed by the
90 Department of Health in rule and may not be prepared by a health
91 care practitioner whose exclusive service to the individual with
92 a disability is preparation of the written documentation in
93 exchange for a fee. The Department of Health may adopt rules to
94 administer this sub-subparagraph.

95 c. This subparagraph does not apply to a service animal.

96 3. An individual with a disability ~~However, such a person~~
97 ~~is liable for any damage done to the premises or to another~~
98 ~~person on the premises by her or his service the animal or~~
99 ~~emotional support animal.~~ A housing accommodation may request
100 proof of compliance with vaccination requirements.

101 (10) A person who falsifies written documentation, as
102 specified in sub-subparagraph (6)(b)2.a., for an emotional
103 support animal or otherwise knowingly and willfully
104 misrepresents herself or himself, through conduct or verbal or
105 written notice, as using an emotional support animal and being
106 qualified to use an emotional support animal commits a
107 misdemeanor of the second degree, punishable as provided in s.
108 775.082 or s. 775.083, and must perform 30 hours of community
109 service for an organization that serves individuals with
110 disabilities, or for another entity or organization at the
111 discretion of the court, to be completed in not more than 6
112 months.

113 Section 2. This act shall take effect July 1, 2019.



The Florida Senate

Committee Agenda Request

To: Senator Ben Albritton, Chair
Committee on Agriculture

Subject: Committee Agenda Request

Date: March 4, 2019

I respectfully request that **Senate Bill # 1128**, relating to Emotional Support Animals, be placed on the:

- ☐ Committee agenda at your earliest possible convenience.
- ☒ Next committee agenda.

Senator Manny Diaz, Jr.
Florida Senate, District 36

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

1128

Bill Number (if applicable)

Topic Emotional Support Animals

Amendment Barcode (if applicable)

Name Kate Macfalle

Job Title

Address 1624 Metropolitan Circle

Street

Tallahassee FL 32308

City

State

Zip

Phone 850 508-1001

Email kmacfalle@hsus.org

Speaking: ☒ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Humane Society of the United States

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/14

Meeting Date

SB 1128

Bill Number (if applicable)

N/A

Amendment Barcode (if applicable)

Topic Emotional Support Animals / SB 1128

Name Amanda Gill

Job Title Government Affairs Director

Address 105 E. Robinson St
Street

Orlando FL 32801
City State Zip

Phone 248 814 8523

Email Amanda@faahq.org

Speaking: ☒ For ☐ Against ☐ Information

Waive Speaking: ☒ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Florida Apartment Association

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

APPEARANCE RECORD

3/11/2019

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SB 1128

Bill Number (if applicable)

Topic Emotional Support Animals

Amendment Barcode (if applicable)

Name Kelly Mallette

Job Title _____

Address 104 W. Jefferson Street

Phone (850) 824-3427

Street

Tallahassee

FL

32301

City

State

Zip

Email kelly@rlbookpa.com

Speaking: ☒ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Florida Apartment Association

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

March 11, 2018- AGRICULTURE COMMITTEE MEETING 1:30 – 3:30 PM

Tab 2

Update on the Florida Citrus Recovery Block Grant by the Florida
Division of Emergency Management

Speaker:

Jared Rosenstein, Legislative Affairs Director, Division of
Emergency Management

THE FLORIDA SENATE
APPEARANCE RECORD

3/11/19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

TAB 2

Bill Number (if applicable)

Topic Citrus

Amendment Barcode (if applicable)

Name Jared Rosenstein

Job Title LAD

Address 2555 Shumard Oak Blvd

Phone 786-247-8716

Tallahassee FL

Email Jared.Rosenstein@com

City State Zip

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against ☒ *MyFlorida.com*
(The Chair will read this information into the record.)

Representing DEM

Appearing at request of Chair: ☒ Yes ☐ No Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

The Florida Senate
BILL ANALYSIS AND FISCAL IMPACT STATEMENT

(This document is based on the provisions contained in the legislation as of the latest date listed below.)

Prepared By: The Professional Staff of the Committee on Agriculture

BILL: SB 7064

INTRODUCER: Agriculture Committee

SUBJECT: Fracking

DATE: March 12, 2019

REVISED: _____

ANALYST	STAFF DIRECTOR	REFERENCE	ACTION
1. Becker	Becker		AG Submitted as Committee Bill

I. Summary:

SB 7064 amends s. 377.19, F.S., to define the term “fracking” as all stages of a well intervention performed by injecting large volumes of fluids at a high rate into a rock formation at pressures that exceed the fracture gradient of the rock formation in order to propagate hydraulic fractures. It specifies that this does not include other well intervention techniques, including conventional well stimulation or conventional workover procedures; techniques used for routine well work, well maintenance, or removal of formation damage due to drilling or production; or conventional acidizing techniques used to enhance, maintain, or restore the natural permeability of the formation.

The bill creates s. 377.2405, F.S., which states that fracking is prohibited in this state and that a permit for drilling or operating a well does not authorize fracking. It also prohibits the disposal of flowback fluid by deepwell injection or any other below ground method.

The bill increases bonding requirements and civil penalties for violations when certain operations occur in the Everglades Protection Area.

The bill creates s. 377.421, F.S., which specifies requirements when drilling in the Everglades Protection Area and defines what that area is. Specifically, the bill:

- Requires the Department of Environmental Protection (DEP) to evaluate each application to drill and to visit each proposed access route and drilling site in the area to ensure that exploration and production activities will not cause any permanent adverse impact.
- Sets for criteria for DEP to use when evaluating applications, with specific criteria for roads/road extensions, drilling sites, and production.
- Requires a wildlife impact study to be completed at the time of the initial application and at the time of subsequent recertification.
- Prohibits the refining of oil within the Everglades Protection Area.

The bill prohibits flowback fluid from being used to irrigate crops.

II. Present Situation:

Production of Conventional Versus Unconventional Oil and Gas Resources: The Use of Well Stimulation Techniques

Conventional oil and gas resources are found in permeable sandstone and carbonate reservoirs.¹ Wells have historically been drilled vertically, straight down into a rock formation to extract conventional resources. Whereas conventional resources are found in concentrated underground locations, unconventional resources are highly dispersed through impermeable or “tight” rock formations, such as shales and tight sands.² To extract unconventional resources, drilling has generally shifted from vertical to horizontal.³

Well stimulation techniques are used in the production of both conventional and unconventional resources. The techniques can be focused solely on the wellbore (drilled hole) for maintenance and remedial purposes or can be used to increase production from the reservoir.⁴ The relatively recent development of horizontal or directional drilling in conjunction with the expanded use of well stimulation techniques has increased the production at oil or gas wells and has led to the profitable extraction of unconventional resources.⁵ The three main well stimulation techniques are hydraulic fracturing, acid fracturing, and matrix acidizing.⁶ Hydraulic fracturing and acid fracturing are commonly referred to as “fracking.”

Hydraulic Fracturing

Hydraulic fracturing was developed in the 1940s to increase the production of conventional oil and gas resources.⁷ While the technique is not new, the composition of the fracturing fluids used in the process has evolved over time. Initially the fracturing fluids were oil-based and relied on a mixture of petroleum compounds, such as napalm and diesel fuels.⁸ Modern hydraulic fracturing involves a fracturing fluid that is composed of a base fluid, in most cases water; additives, each designed to serve a particular function; and a proppant (such as sand), which holds the fractures open during or following the treatment.⁹ The composition of the fracturing fluid varies depending on the permeability and brittleness of the reservoir rock.¹⁰ A hydraulic fracturing

¹ Michael Ratner & Mary Tiemann, Cong. Research Serv., R 43148, *An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions*, 2 (Apr. 22, 2015), available at <https://www.fas.org/sgp/crs/misc/R43148.pdf> (last visited Jan. 28, 2019).

² *Id.*

³ U.S. Energy Information Administration (EIA), *Hydraulically fractured horizontal wells account for most new oil and natural gas wells* (Jan. 30, 2018), <https://www.eia.gov/todayinenergy/detail.php?id=34732> (last visited Jan. 28, 2019).

⁴ California Council on Science and Technology Lawrence Berkeley National Laboratory, *An Independent Assessment of Well Stimulation in California*, vol. 1, *Well stimulation technologies and their past, present, and potential future use in California*, 13–14 (January 2015) [hereinafter *CA Study*], available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

⁵ *Id.* at 2.

⁶ *Id.* at 28.

⁷ Gallegos, T.J., and Varela, B.A., United States Geological Survey, *Trends in Hydraulic Fracturing Distributions and Treatment Fluids, Additives, Proppants, and Water Volumes Applied to Wells Drilled in the United States from 1947 through 2010—Data Analysis and Comparison to the Literature*, Scientific Investigations Report 2014–5131, 1 (2015), available at <http://pubs.usgs.gov/sir/2014/5131/pdf/sir2014-5131.pdf> (last visited Feb. 28, 2019).

⁸ *Id.* at 7.

⁹ *Id.* at 1, 10–11, 303.

¹⁰ *CA Study*, at 48, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

operation at a horizontal well involves a four-step process. The first step is the “stage,” during which a portion of the well is isolated to focus the fracture fluid pressure. The second is the “pad,” during which fracture fluid is injected, first without proppant, to initiate and propagate the fracture in the rock formation. The proppant is then added to keep the fractures open. The third stage is the “flush,” during which fluid is injected without proppant to push any remaining proppant into the fractures. The fourth stage is the “flowback,” during which the hydraulic fracturing fluids are removed and the fluid pressure dissipates.¹¹

The U.S. Environmental Protection Agency (EPA) estimates that 25,000-30,000 new wells were drilled and hydraulically fractured annually in the United States between 2011 and 2014.¹² In 2016, hydraulically fractured horizontal wells accounted for 69% of all oil and natural gas wells drilled in the U.S.¹³ The combination of horizontal drilling and hydraulic fracturing has contributed to increases in crude oil and natural gas production in the U.S.¹⁴

Acid Fracturing

Well stimulation techniques that use acid-based formulas are sometimes preferred in carbonate reservoirs.¹⁵ Acid fracturing is a well stimulation technique that uses acidic fluids. It can be an effective method for stimulating limestone formations.¹⁶ Well operators pump the acidic fluids into a well at a pressure that exceeds the fracture gradient and, thus, fractures the rock. The acid etches the walls of the fractures and eliminates the need to use a proppant because the fractures remain open after pressure is released.¹⁷ The produced fluids have a much lower acid content than the injected fluids because most of the acid that is injected is neutralized through a reaction with the rock.¹⁸ As compared to hydraulic fracturing, acid fracturing is generally more successful in carbonate reservoirs because of the relatively high degree of natural fractures present.¹⁹

The purpose of an acid fracturing treatment is to create new or open existing fractures, and dissolve formation material, to create an irregular fracture surface that opens up new flow paths or enhances existing flow paths into the wellbore.²⁰ As compared to hydraulic fracturing, acid fracturing results in fractures that are relatively short in length.²¹ One of the main factors that adversely affects acid fracture growth is fluid loss, or acid “leakoff.” Acid leakoff can result in

¹¹ *Id.* at 42, 300. Flowback is defined as “fracturing fluid, perhaps mixed with formation water and traces of hydrocarbon, that flows back to the surface after the completion of hydraulic fracturing.”

¹² U.S. Environmental Protection Agency (EPA), *Hydraulic Fracturing for Oil and Gas: Impacts from the Hydraulic Fracturing Water Cycle on Drinking Water Resources in the United States*, 3-1 (Dec. 2016) [hereinafter *EPA Study*], available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹³ U.S. Energy Information Administration (EIA), *Hydraulically fractured horizontal wells account for most new oil and natural gas wells* (Jan. 30, 2019), <https://www.eia.gov/todayinenergy/detail.php?id=34732> (last visited Feb. 28, 2019).

¹⁴ *Id.*

¹⁵ *CA Study*, at 56, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

¹⁶ *Id.* at 25; see generally Bing Hou, Ruxin Zhang, Mian Chen, Jiawie Kao, and Xin Liu, *Investigation on Acid Fracturing Treatment in Limestone Formation Based on True Tri-Axial Experiment*, 235 *Fuel* 473-484 (2019), available at <https://www.sciencedirect.com/science/article/pii/S0016236118314273?via%3Dihub#bi005> (last visited Feb. 28, 2019).

¹⁷ *CA Study*, at 28.

¹⁸ *Id.* at 14.

¹⁹ *Id.* at 56.

²⁰ American Petroleum Institute, *Acidizing: Treatment in Oil and Gas Operations*, 1–3 (2014), available at <http://www.api.org/~media/files/oil-and-natural-gas/hydraulic-fracturing/acidizing-oil-natural-gas-briefing-paper-v2.pdf> (last visited Feb. 28, 2019).

²¹ *CA Study*, at 56, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

the enlargement of channels and natural fractures and can greatly increase the area from which fluid loss occurs, making fluid-loss control difficult and preventing acid from reaching untreated parts of the fracture.²²

Matrix Acidizing

Well operators have been using matrix acidizing for over 100 years.²³ Drilling and production in oil and gas operations cause damage to the rock formation.²⁴ Formation damage can include the plugging of perforations or the plugging of the rock matrix by debris from the well and well operations, which restrict the flow of hydrocarbons into the wellbore.²⁵ Matrix acidizing is performed by pumping acidic fluids into a well at a pressure that does not exceed the fracture gradient.²⁶ Acidizing is often used for well maintenance and to remediate damage caused by well operation and drilling.²⁷ Operators use acid, which is very effective at dissolving carbonate minerals, to bypass formation damage around the well.²⁸ Most of this acid is neutralized due to reactions with the rock.²⁹ Additionally, various acids are used to clean residential water wells to loosen or dissolve debris so that it can be pumped out of the well.³⁰

If larger volumes of acid are injected into carbonate formations, matrix acidizing can be used to increase the permeability of the formation beyond the zone impacted by drilling or production activities.³¹ Matrix acidizing can result in stimulation of carbonate reservoir permeability beyond the region near the well.³² This technique is not commonly used for stimulation in unconventional reservoirs because it does not increase recovery enough in low permeability reservoirs to make production viable.³³ The penetration into the formation caused by matrix acidizing is typically less extensive than after use of a fracturing technique.³⁴ However, in carbonate reservoirs, matrix acidizing can create deeply penetrating channels, known as wormholes, and lead to deeper acid penetration into more permeable fractures of a naturally fractured reservoir.³⁵ Hydrochloric acid is commonly used for matrix acidizing in carbonate reservoirs.³⁶ To minimize the probability of acid entering into highly permeable sections of the formation, which could create channels into water-producing zones, careful treatment, design, and execution is required when performing a matrix acidizing treatment.³⁷

²² Middle East & Asia Reservoir Review, vol. 4, *Stimulate the Flow*, 46 (Jan. 2003), available at https://www.slb.com/resources/publications/industry_articles/mearr/num4_stimulate_flow.aspx (last visited Feb. 28, 2019).

²³ *CA Study*, at 69, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

²⁴ Middle East & Asia Reservoir Review, vol. 4, *Stimulate the Flow*, 42 (Jan. 2003).

²⁵ *Id.*

²⁶ *CA Study*, at 69, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

²⁷ *Id.* at 14.

²⁸ *Id.* at 69.

²⁹ *Id.* at 14.

³⁰ The Groundwater Association, *How Well Systems Are Cleaned*, <http://wellowner.org/water-well-maintenance/residential-well-cleaning/> (last visited Jan. 29, 2019).

³¹ *CA Study*, at 14, available at <https://ccst.us/wp-content/uploads/160708-sb4-vol-I.pdf> (last visited Feb. 28, 2019).

³² *Id.* at 28.

³³ *Id.* at 14, 69.

³⁴ *Id.* at 30.

³⁵ *Id.*

³⁶ Middle East & Asia Reservoir Review, vol. 4, *Stimulate the Flow*, 42 (Jan. 2003).

³⁷ *Id.* at 44.

Production of Oil and Gas Resources in Florida

Northwest and South Florida are the major oil and gas producing areas in the state. Florida's first producing oil well was discovered in 1943 at a wellsite located near present-day Big Cypress Preserve.³⁸ Oil and gas resources were first discovered in Northwest Florida in 1970, in the town of Jay.³⁹ Annual production of petroleum from these two regions peaked at more than 47 million barrels in 1978, but has subsequently decreased substantially, with annual statewide production dropping to less than 2 million barrels by 2017.⁴⁰ Florida's natural gas production also peaked in the 1970s, and by 2009 statewide natural gas production had fallen to less than 1% of its 1978 record high.⁴¹ There are currently two active oil and gas fields in Northwest Florida, and seven active oil and gas fields in South Florida.⁴² While geologists believe that there may be oil and natural gas deposits off Florida's western coast, the state enacted a drilling ban for state waters in 1990 and, in 2006, Congress banned the leasing of federal offshore blocks within 125 miles of Florida's western coast until at least 2022.⁴³ Additionally, federal law gives priority use of much of the area to the military for training.⁴⁴ In 2018, the Florida constitution was amended to prohibit drilling for exploration or extraction of oil or natural gas on lands "beneath all state waters which have not been alienated and that lie between the mean high water line and the outermost boundaries of the state's territorial seas."⁴⁵

In 2018, there were 57 active producer wells in Florida.⁴⁶ The Department of Environmental Protection's (DEP) 2018 Annual Production Report totaled natural gas production at 810,445 million cubic feet and oil production at 604,370 barrels in the state.⁴⁷ Proven oil and gas reserves in Northwest and South Florida are composed of carbonate formations (limestone and dolomite reservoirs), which have naturally higher permeability than the tighter shale or similar formations.⁴⁸ Rather than hydraulic fracturing, well operators in the state have generally preferred washing or flushing the formations, or other alternative methods, to open carbonate pathways and enhance recovery of oil and gas resources.⁴⁹

³⁸ American Oil & Gas Historical Society, *First Florida Oil Well*, <http://aoghs.org/states/first-florida-oil-well/> (last visited Jan. 29, 2019).

³⁹ Lloyd, Jacqueline M., *Information Circular 107, Part I: 1988 and 1989 Florida Petroleum Production and Exploration*, 1 (1991), available at <http://ufdc.ufl.edu/UF00001168/00001/pdf> (last visited Feb. 28, 2019).

⁴⁰ EIA, Florida, *Profile Analysis: Petroleum*, <http://www.eia.gov/state/analysis.php?sid=FL> (last visited Feb. 28, 2019).

⁴¹ *Id.*

⁴² DEP, *State Production Data* (2018), available at <https://floridadep.gov/water/oil-gas/documents/state-production-data> (last visited Feb. 28, 2019).

⁴³ EIA, Florida, *Profile Analysis: Petroleum*, <http://www.eia.gov/state/analysis.php?sid=FL> (last visited Feb. 28, 2019); see Pub. L. No. 109-432, s. 104(a)(2), 120 Stat. 3003 (2006); see s. 377.242(1), F.S.

⁴⁴ EIA, Florida, *Profile Analysis: Petroleum*, <http://www.eia.gov/state/analysis.php?sid=FL> (last visited Feb. 28, 2019).

⁴⁵ FLA CONST. art. II, s. 7.

⁴⁶ DEP, *State Production Data* (2018), available at <https://floridadep.gov/water/oil-gas/documents/state-production-data> (last visited Feb. 28, 2019).

⁴⁷ *Id.*

⁴⁸ DEP, *Hydraulic Fracturing Background and Recommendations*, 1–3 (Sept. 29, 2011) available at http://news.caloosahatchee.org/docs/Dep_Fracturing_Response_130118.pdf (last visited Feb. 28, 2019).

⁴⁹ *Id.* at 3.

Regulation of Well Stimulation Techniques

Federal Regulation

There is limited direct federal regulation over oil and gas activities. In 2005, Congress passed the Energy Policy Act amending, in part, the Safe Drinking Water Act (SDWA) and the Clean Water Act (CWA).⁵⁰ The SDWA was amended to revise the definition of the term “underground injection” to specifically exclude the underground injection of fluids or propping agents (other than diesel fuels) pursuant to hydraulic fracturing operations.⁵¹ The CWA contains exemptions from stormwater permitting requirements for oil and gas exploration production, processing, or treatment operations or transmission facilities.⁵² Although the 2005 Energy Policy Act broadened the exemptions to include “construction activities” in the definition of oil and gas exploration and production, any flows from oil and gas operations which are contaminated or come into contact with overburden, raw material, intermediate products, finished product, byproduct, or waste products remain regulated under the CWA.⁵³

In March of 2015, in an attempt to regulate hydraulic fracturing on federal and tribal lands, the Bureau of Land Management (BLM) published final rules governing hydraulic fracturing.⁵⁴ The rules were to take effect on June 24, 2015. However, the United States District Court for the District of Wyoming granted a preliminary injunction and the rule was stayed.⁵⁵ In June of 2016, the court held that the BLM lacked authority to regulate hydraulic fracturing and set aside the final rules.⁵⁶ The court’s ruling was appealed to the United States Court of Appeals Tenth Circuit, which dismissed the appeal and remanded with directions to vacate the district court’s opinion and dismiss the action without prejudice in light of the Bureau of Land Management’s decision to rescind the final rules.⁵⁷

While direct regulation over well stimulation techniques at the federal level is limited, there are several federal statutes that regulate the indirect impacts of oil and gas extraction. The EPA’s Oil

⁵⁰ Energy Policy Act of 2005, H.R. 6, 109th Cong. (2005-2006).

⁵¹ See 42 U.S.C. s. 300h(d) (2012).

⁵² 33 U.S.C. s 1342 (l)(2) (2012).

⁵³ 33 U.S.C. s. 1362(24) (2012); *NRDC v. U.S. EPA*, 526 F.3d 591, 599, 608 (9th Cir. 2008)(vacating an EPA rule implementing the 2005 amendment); William J. Brady, *Hydraulic Fracturing Regulation in the United States: The Laissez-faire Approach of the Federal Government and Varying State Regulations*, 7–8 (2012), available at <http://www.law.du.edu/documents/faculty-highlights/Intersol-2012-HydroFracking.pdf> (last visited Feb. 28, 2019). Oil and gas construction facilities remain subject to the CWA’s permitting requirements for stormwater, and for discharging a pollutant into navigable waters, when applicable.

⁵⁴ *Oil and Gas; Hydraulic Fracturing on Federal and Indian Lands*, 80 Fed. Reg. 16,128-16,222 (Mar. 26, 2015). Under the final BLM regulations, the term “hydraulic fracturing” is defined as “those operations conducted in an individual wellbore designed to increase the flow of hydrocarbons from the rock formation to the wellbore through modifying the permeability of reservoir rock by applying fluids under pressure to fracture it. Hydraulic fracturing does not include enhanced secondary recovery such as water flooding, tertiary recovery, recovery through steam injection, or other types of well stimulation operations such as acidizing.”

⁵⁵ *State of Wyo. vs. U.S. Dept. of the Int.*, No. 2: 15-CB-043-SWS (D. Wyo. Sept. 30, 2015) (granting a preliminary injunction), available at <http://www.wyd.uscourts.gov/pdfforms/orders/15-cv-043%20130%20order.pdf> (last visited Feb. 28, 2019).

⁵⁶ *State of Wyo. vs. U.S. Dept. of the Int.*, No. 2: 15-CV-043-SWS (D. Wyo. June 21, 2016), available at <http://www.wyd.uscourts.gov/pdfforms/orders/15-cv-043-S%20Order.pdf> (last visited Feb. 28, 2019).

⁵⁷ *State of Wyo. vs. U.S. Dept. of the Int.*, No. 16-8068 (10th Cir. Sept. 21, 2017), available at <https://www.ca10.uscourts.gov/opinions/16/16-8068.pdf> (last visited Feb. 28, 2019).

and Gas Extraction Effluent Guidelines and Standards regulate wastewater discharges from field exploration, drilling, production, well treatment, and well completion activities.⁵⁸ The regulations apply to conventional and unconventional extraction, with the exception of extractions of coalbed methane.⁵⁹ These standards are incorporated into the CWA's NPDES regulatory framework.⁶⁰

Because oil and gas activities may result in the release of hazardous substances into the environment at or under the surface in a manner that may endanger public health or the environment, these activities are regulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).⁶¹ While recovered petroleum or natural gas is exempt from the act, other hazardous substances that result from oil or gas production, such as fracturing fluids, are subject to CERCLA.⁶² If a release of such fluids occurs, the facility owner and operator could face liability under CERCLA.⁶³

To ensure that employees who may be exposed to hazardous chemicals in the workplace are aware of the chemicals' potential dangers, manufacturers and importers must obtain or develop Material Safety Data Sheets (MSDS) for hydraulic fracturing chemicals that are hazardous according to the Occupational Safety and Health Administration (OSHA) standards.⁶⁴ MSDS must be maintained for hazardous chemicals at each job site and must, at a minimum, include the chemical names of substances that are considered hazardous under the OSHA regulations.⁶⁵

Regulation in Other States

States have primary jurisdiction and authority over the regulation of oil and gas activities. Almost all states with economically viable production wells have extensive regulatory programs in place for permitting and monitoring oil and gas activities. Recent advances in technology and the widespread use of well stimulation techniques, particularly hydraulic fracturing, have motivated some states to update and revise their oil and gas regulations to specifically address such techniques or to ban certain techniques altogether.⁶⁶

⁵⁸ EPA, *Oil and Gas Extraction Effluent Guidelines, Rule Summary*, available at <http://www.epa.gov/eg/oil-and-gas-extraction-effluent-guidelines> (last visited Feb. 28, 2019).

⁵⁹ *Id.*

⁶⁰ *Id.*

⁶¹ 42 U.S.C. ss. 9601-9675 (2012); Adam Vann, Brandon J. Murrill, & Mary Tiemann, Cong. Research Serv., R 43152, *Hydraulic Fracturing: Selected Legal Issues*, 12 (Sept. 26, 2014), available at <https://www.fas.org/sgp/crs/misc/R43152.pdf> (last visited Feb. 28, 2019).

⁶² Adam Vann, Brandon J. Murrill, & Mary Tiemann, Cong. Research Serv., R 43152, *Hydraulic Fracturing: Selected Legal Issues*, 12–13 (Sept. 26, 2014).

⁶³ *Id.* at 13.

⁶⁴ *Id.* at 22.

⁶⁵ *Id.*

⁶⁶ See Hannah Wiseman, *Untested Waters: The Rise of Hydraulic Fracturing in Oil and Gas Production and the Need to Revisit Regulation*, 20 FORDHAM ENVTL. L. REV. 115 (2009); see also *State of Wyo. vs. U.S. Dept. of the Int.*, No. 2: 15-CB-043-SWS at 40 (D. Wyo. Sept. 30, 2015) (showing a list of states with regulations that address hydraulic fracturing).

Vermont, New York, and Maryland prohibit hydraulic fracturing. In 2012, Vermont banned the practice of hydraulic fracturing.⁶⁷ In 2015, New York’s Department of Environmental Conservation found that there were “no feasible or prudent alternatives [other than a ban which] would adequately avoid or minimize adverse environmental impacts and that address the scientific uncertainties and risks to public health from [high-volume hydraulic fracturing].”⁶⁸ The Findings Statement effectively banned high-volume hydraulic fracturing in the state of New York.⁶⁹ In 2017, Maryland prohibited hydraulic fracturing for the exploration or production of oil or natural gas.⁷⁰

Regulation in Florida

In Florida, DEP has regulatory authority over oil and gas resources. The Division of Water Resource Management (division) within DEP oversees the permitting process for drilling production and exploration. DEP has adopted rules to implement and enforce the regulation of oil and gas resources.⁷¹ The division has jurisdiction and authority over all persons and property necessary to administer and enforce all laws relating to the conservation of oil and gas.⁷² Local government approval is required for drilling in tidal waters, near improved beaches, and within municipal boundaries.⁷³

When issuing permits for oil and gas exploration or extraction, the division is required to consider the nature, character, and location of the lands involved; the nature, type, and extent of ownership of the applicant; and the proven or indicated likelihood of the presence of oil, gas, or related minerals on a commercially viable basis.⁷⁴ DEP is required to issue orders and adopt rules that ensure all precautions are taken to prevent the spillage of oil or any other pollutant in all phases of drilling for and extracting oil, gas, or other petroleum products.⁷⁵ The purposes of such rules and orders include preventing the pollution of fresh, salt, or brackish waters or lands of the state, and preventing the escape of oil or other petroleum products from one stratum to another.⁷⁶

⁶⁷ 29 V.S.A. § 571; 29 V.S.A. § 503(30). The statute defines the term “hydraulic fracturing” as “the process of pumping a fluid into or under the surface of the ground in order to create fractures in rock for the purpose of the production or recovery of oil or gas.”

⁶⁸ New York Department of Environmental Conservation, *Final Supplemental Generic Environmental Impact Statement on the Oil, Gas, and Solution Mining Regulatory Program: Regulatory Program for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs, Findings Statement*, 42 (June 2015), available at http://www.dec.ny.gov/docs/materials_minerals_pdf/findingstatehvhf62015.pdf (last visited Feb. 28, 2019).

⁶⁹ See *id.* at 41. The Findings Statement defined the term “high-volume hydraulic fracturing” as “the stimulation of a well using 300,000 or more gallons of water as the base fluid for hydraulic fracturing for all stages in a well completion, regardless of whether the well is vertical or directional, including horizontal.”

⁷⁰ Maryland Code § 14-107.1 (2017). Under Maryland law, the term “hydraulic fracturing” is defined as “a stimulation treatment performed on oil and natural gas wells in low-permeability oil or natural gas reservoirs through which specially engineered fluids are pumped at high pressure and rate into the reservoir interval to be treated, causing fractures to open.”

⁷¹ Fla. Admin. Code, Chapters 62C-25–62C-30.

⁷² Section 377.21(1), F.S.

⁷³ Section 377.24, F.S.

⁷⁴ Section 377.241, F.S.

⁷⁵ Section 377.22(2), F.S.

⁷⁶ *Id.*

Before any person begins work other than environmental assessments or surveying at the site of a proposed drilling operation, a permit to drill is required and a preliminary site inspection must be conducted by DEP.⁷⁷ In oil and gas wells, the “casing” is a hollow steel pipe used to line the inside of the wellbore, and the casing is usually surrounded by a cement sheath.⁷⁸ An application to DEP for a permit to drill must include a proposed casing and cementing program and a location plat survey.⁷⁹ The regulations require the operator to case and cement wells in order to maintain well control and prevent degradation of other natural resources, including water.⁸⁰ Each drilling permit is valid for one year from the date of approval.⁸¹ Before a permit is granted, the owner or operator is required to post a bond or other form of security for each well.⁸²

Before a well is used for its intended purpose, a permit to operate the well must be obtained.⁸³ Operating permits are valid for the life of the well, although each operating well and permit must be recertified every five years from the permit date.⁸⁴ Each application and subsequent recertification must include: the appropriate fee; bond or security coverage; a spill prevention and cleanup plan; flowline specifications and an installation plan; containment facility certification; and additional reporting and data submissions, such as driller’s logs and monthly well reports.⁸⁵

A separate permit is not required for the performance of well stimulation techniques. Such techniques are regulated as workovers.⁸⁶ DEP regulations define the term “workover” as: “an operation involving a deepening, plug back, repair, cement squeeze, perforation, hydraulic fracturing, acidizing, or other chemical treatment which is performed in a production, disposal, or injection well in order to restore, sustain, or increase production, disposal, or injection rates.”⁸⁷ An operator is required to notify DEP before commencing a workover procedure and must submit a revised well record to DEP within 30 days after the workover.⁸⁸

In December of 2013, DEP received a workover notice proposing use of an enhanced extraction procedure and requested that the company that submitted the notice not complete the procedure until DEP could conduct a review.⁸⁹ When the company commenced with the procedure, DEP

⁷⁷ Fla. Admin. Code R. 62C-26.003.

⁷⁸ FracFocus, *Well Construction & Groundwater Protection*, <https://fracfocus.org/hydraulic-fracturing-how-it-works/casing> (last visited Feb. 28, 2019).

⁷⁹ *Id.*

⁸⁰ Fla. Admin. Code R. 62C-27.005. The regulations specify standards for casing depth and pressure testing.

⁸¹ Fla. Admin. Code R. 62C-26.003.

⁸² Fla. Admin. Code R. 62C-26.002.

⁸³ Fla. Admin. Code R. 62C-26.008.

⁸⁴ *Id.*

⁸⁵ *Id.*

⁸⁶ *See, e.g.*, s. 377.22, F.S. The division is required to adopt rules to “regulate the ‘shooting,’ perforating and chemical treatment of wells,” and to “regulate secondary recovery methods, including the introduction of gas, air, water, or other substance into producing formations”; *see e.g.*, s. 377.26, F.S. In regulating the vertical orientation of the well, the division is required to “take into account technological advances in drilling and production technology, including, but not limited to, horizontal well completions in the producing formation using directional drilling methods.”

⁸⁷ Fla. Admin. Code R. 62C-25.002(61).

⁸⁸ Fla. Admin. Code R. 62C-29.006.

⁸⁹ *State of Florida Department of Environmental Protection vs. Dan A. Hughes Company, L.P.*, OGC File No. 14-0012, 2 (April 8, 2014), available at https://www.doah.state.fl.us/FLAID/DEP/2014/DEP_14-0012_05162014_014716.pdf (last visited Feb. 28, 2019).

issued a cease and desist order.⁹⁰ DEP fined the company \$25,000 for violating the cease and desist order.⁹¹ It was concluded that the workover performed on the well involved hydraulic fracturing.⁹²

A person that violates any statute, rule, regulation, order, or permit of the division relating to the regulation of oil or gas resources or who refuses inspection by the division is liable for damages caused to the air, waters, or property of the state; for the reasonable costs of tracing the source of the discharge and for controlling and abating the source and the pollutants; and for the costs of restoring the air, waters, and property.⁹³ Such persons are also subject to judicial imposition of a civil penalty of up to \$10,000 for each offense.⁹⁴ Each day during any portion of which a violation occurs constitutes a separate offense.⁹⁵

Local Regulation

While cities and counties do not operate oil and gas permitting programs in Florida, some, through their land use regulations or zoning ordinances, require special exceptions for oil and gas activities or limit oil and gas activities to certain zoning classifications.⁹⁶ When authorizing oil and gas activities, local governments consider factors such as consistency with their comprehensive plan, injuries to communities or the public welfare, and compliance with zoning ordinances.⁹⁷ DEP may not issue a permit for drilling within the corporate limits of a municipality unless the municipality first adopts a resolution approving the permit.⁹⁸ Six municipalities (Estero, Bonita Springs, Coconut Creek, Cape Coral, Dade, and Zephyrhills) and thirteen counties (Alachua, Bay, Brevard, Broward, Citrus, Indian River, Martin, Miami-Dade, Osceola, Pinellas, St. Lucie, Volusia, Wakulla, and Walton) have banned one or more forms of well stimulation techniques by ordinance.⁹⁹ Additionally, many other counties and cities have passed resolutions supporting various types of bans and moratoriums relating to well stimulation techniques.¹⁰⁰

⁹⁰ *Id.*

⁹¹ *Id.*

⁹² ALL Consulting, LLC., *Expert Evaluation of the D.A. Hughes Collier-Hogan 20-3H, Well Drilling and Workover*, Prepared for Florida Department of Environmental Protection, 4 (2014), available at <https://assets.documentcloud.org/documents/1507525/allconsulting.pdf> (last visited Feb. 28, 2019).

⁹³ Section 377.37(1)(a), F.S.

⁹⁴ *Id.*

⁹⁵ *Id.*

⁹⁶ *See, e.g.*, Lee County's Land Development Code §§ 34-1651 and 34-145(c).

⁹⁷ *Id.*

⁹⁸ Section 377.24(5), F.S.

⁹⁹ Village of Estero, Ordinance No. 2015-19; Bonita Spring's Land Development Code, Chapter 4, Article VI, Division 15, Section 4-1380; Coconut Creek's Land Development Code, Article IV, Section 13-1000; City of Cape Coral, Ordinance §3.23; City of Dade, Ordinance No. 2016-08; City of Zephyrhills, Ordinance No. 1310-16; Alachua County's Code of Ordinances, §77.13.5; Bay County's Land Development Regulation, §311; Brevard County's Code of Ordinances, §46-375; Citrus County's Code of Ordinances, §66-133; Indian River County's Code of Ordinances, §317.03; Osceola County's Land Development Code, §4.12.3; Broward County's Code of Ordinances, §27-193; Martin County's Code of Ordinances, §67.441; Miami-Dade County's Code of Ordinances, §33-437; Pinellas County's Code of Ordinances, §58-489; St. Lucie County's Code of Ordinances, Policy 6.1.5.7; Volusia County's Code of Ordinances, §50-42; Wakulla County's Code of Ordinances, §6-34; Walton County's Code of Ordinances, §9-156.

¹⁰⁰ *See* Food & Water Watch, *Local Regulations Against Fracking*, <http://www.foodandwaterwatch.org/insight/local-resolutions-against-fracking#florida> (last visited Feb. 28, 2019). The page shows a list of local governments that passed resolutions against fracking.

Environmental Concerns

There are a variety of environmental concerns relating to well stimulation techniques. Potential impacts and concerns include: groundwater or surface water contamination; stress on water supplies; inadequate wastewater management and disposal; and air quality degradation.¹⁰¹ Because well stimulation techniques are applied to so many types of underground formations using a variety of methods and fluids, environmental impacts vary depending on factors such as the toxicity of the fluid used; the closeness of the fracture zone to underground drinking water; the existence of a barrier between the fracture formation and other formations; and how wastewater is disposed of.¹⁰²

Water Quality

The EPA estimated that of the approximately 275,000 wells that have been hydraulically fractured in 25 states between 2000 and 2013, an estimated 21,900, or 8%, were within one mile of at least one public water system groundwater well or surface water intake.¹⁰³ As a result of fracturing, sources of drinking water may be contaminated through the release of gas-phase hydrocarbons, in what is known as stray gas migration, if the well casing or cementing is too weak or if it fails.¹⁰⁴ The EPA concluded that the “injection of hydraulic fracturing fluids into wells with inadequate mechanical integrity [may allow for] gases or liquids to move to groundwater sources.”¹⁰⁵ While concerns related to inadequate well casing or cementing are not unique to hydraulic fracturing, horizontally drilled, hydraulically fractured wells pose more production challenges because the well casing is subject to greater pressures.¹⁰⁶

Mitigating measures, such as extending the casing farther below groundwater resources and pressure testing the well casing before the injection of fluids, may work to prevent well casing failures.¹⁰⁷ Blowout preventers also help control and prevent pressure build-ups.¹⁰⁸ Hydraulically fractured wells in shale formations are usually drilled deeper than vertical wells, which can lead to a greater vertical separation between the formation and the drinking water resource.¹⁰⁹ Thousands of feet of rock layers typically overlay the produced portion of shale and serve as a

¹⁰¹ EPA, *Unconventional Oil and Natural Gas Development, Providing Regulatory Clarity and Protections Against Known Risks*, <https://www.epa.gov/uog> (last visited Feb 28, 2018).

¹⁰² Hannah Wiseman, *Untested Waters: The Rise of Hydraulic Fracturing in Oil and Gas Production and the Need to Revisit Regulation*, 20 FORDHAM ENVTL. L. REV. 115, 6 (2009).

¹⁰³ EPA Study, at 2-14, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹⁰⁴ Avner Vengosh, Robert B. Jackson, Nathaniel Warner, Thomas Darrah, & Andrew Kondash, *A Critical Review of the Risks to Water Resources from Unconventional Shale Gas Development and Hydraulic Fracturing in the United States*, American Chemical Society, 48 Env. Sci. & Technol. 8334-8348, 8336 (Mar. 2014), available at <http://pubs.acs.org/doi/abs/10.1021/es405118y> (last visited February 28, 2018).

¹⁰⁵ EPA Study, at 10-3.

¹⁰⁶ Michael Ratner & Mary Tiemann, Cong. Research Serv., R 43148, *An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions*, 8 (Apr. 22, 2015).

¹⁰⁷ EPA Study, at 6-9, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹⁰⁸ Michael Ratner & Mary Tiemann, Cong. Research Serv., R 43148, *An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions*, 8 (Apr. 22, 2015), available at <https://fas.org/sfp/crs/misc/R43148.pdf> (last visited Feb. 28, 2019).

¹⁰⁹ *Id.* at 7.

barrier to contamination.¹¹⁰ The majority of Florida's public water supply is obtained from groundwater sources, such as the Floridan aquifer system.¹¹¹ Areas in which oil and gas have been extracted have an upper confining unit that is generally greater than 100 feet, which may serve as a barrier to contamination.¹¹²

Fractures created during hydraulic fracturing can intersect nearby wells or their fracture networks, resulting in the flow of fluids into those wells and to underground drinking water resources. These "frac-hits" are more likely to occur if wells are close to each other or are on the same well pad.¹¹³ According to an EPA report, the likelihood of a frac-hit is less than 10% in hydraulically fractured wells more than 4,000 feet apart, while the likelihood is nearly 50% in wells that are less than 1,000 feet apart.¹¹⁴ In Florida, horizontal wells and associated drilling units that are deeper than 7,000 feet have more stringent spacing requirements.¹¹⁵

Surface water contamination may occur because of the inadequate storage and disposal of produced water. Produced water is the water that comes back to the surface as part of the oil and gas production process, and has generally been found to contain salts, metals, organic compounds, radioactive materials, and hydraulic fracturing chemicals.¹¹⁶ For a hydraulically fractured well, the produced water includes the fracturing fluids, or flowback. While the chemicals used will vary by region or between wells, some chemicals used in hydraulic fracturing are toxic.¹¹⁷ It is estimated that approximately 10-40% of the volume of injected fracturing fluids return to the surface after hydraulic fracturing.¹¹⁸ In most produced waters, the concentrations of toxic elements, such as radioactive radium, are positively correlated with salinity, which suggests that many of the potential water quality issues associated with produced waters may be attributable to the geochemistry of the brines within the shale formations.¹¹⁹

As the use of hydraulic fracturing has increased, so has the volume of wastewater generated. Spills of produced water do occur and can result in large volumes or high concentrations of chemicals reaching groundwater sources.¹²⁰ The EPA has reported that spills generally occur at 1-10% of hydraulically fractured or active wells.¹²¹ In Florida, any spill of waste material relating to oil or gas wells must be immediately reported to the division and the appropriate

¹¹⁰ *Id.* at 8.

¹¹¹ DEP, *Aquifers*, <https://fldep.dep.state.fl.us/swapp/Aquifer.asp> (last visited Feb. 28, 2019).

¹¹² U.S. Geological Survey, *Conceptual Model of the Floridan*, <http://fl.water.usgs.gov/floridan/conceptual-model.html> (last visited Feb. 28, 2019).

¹¹³ *EPA Study*, at 6-71, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹¹⁴ *Id.* at 10-18.

¹¹⁵ Fla. Admin. Code R. 62C-26.004(5).

¹¹⁶ *EPA Study*, at ES-33, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹¹⁷ *Id.* at 9-1, 9-16; see FracFocus, *What Chemicals Are Used*, <https://fracfocus.org/chemical-use/what-chemicals-are-used> (last visited Feb. 28, 2019).

¹¹⁸ Avner Vengosh, Robert B. Jackson, Nathaniel Warner, Thomas Darrah, & Andrew Kondash, *A Critical Review of the Risks to Water Resources from Unconventional Shale Gas Development and Hydraulic Fracturing in the United States*, American Chemical Society, 48 Env. Sci. & Techol. 8334-8348, 8340 (2014).

¹¹⁹ *Id.*

¹²⁰ *EPA Study*, at ES-35, 10-3, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹²¹ *Id.* at 10-9.

federal agencies, and the owner or operator is responsible for the costs of cleanup or other damage incurred.¹²²

Water Supply

The amount of water used during the performance of a hydraulic fracturing treatment depends on factors such as the well depth, formation geology, and the composition of the fluids injected. In most cases, the large majority of the fracturing fluid is water, and each hydraulically fractured well can require thousands to millions of gallons of water.¹²³ While the total water use for hydraulic fracturing is relatively low compared to other industrial uses of water, wells that are good candidates for such techniques are usually located near the same water source and, as a result, the collective impact of water withdrawals can be significant.¹²⁴ Some states have implemented pilot projects evaluating the feasibility of reusing produced waters or other brackish or wastewaters.¹²⁵ The reuse of wastewater, however, is often limited by the amount of wastewater that is available.¹²⁶ The volume of produced water from a single well can be relatively small compared to the volume of water needed to fracture a well.¹²⁷

Wastewater Management and Disposal

The majority of produced water is disposed of using injection wells.¹²⁸ Injection wells are permitted under the Underground Injection Control (UIC) program.¹²⁹ The goal of the UIC program is the effective isolation of injected fluids from underground sources of drinking water.¹³⁰ Class II injection wells are designed for injecting fluids associated with the production of oil and natural gas, or fluids used to enhance hydrocarbon recovery. While the injection of fracturing fluids, unless the fluid contains diesel, is exempt from the UIC program, the wastewater from oil and gas operations is not exempt.¹³¹ There are currently 22 permitted Class II UIC wells used for disposal in Florida.¹³²

Another issue that is developing with the increase in the number of injection wells is the concern that the deep-well disposal of oil and gas production wastewater is responsible for seismic

¹²² Section 377.371, F.S.

¹²³ EPA Study, at 4-3, 4-11, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹²⁴ Avner Vengosh, Robert B. Jackson, Nathaniel Warner, Thomas Darrah, & Andrew Kondash, *A Critical Review of the Risks to Water Resources from Unconventional Shale Gas Development and Hydraulic Fracturing in the United States*, American Chemical Society, 48 Env. Sci. & Techol. 8334-8348, 8343 (2014); Hannah Wiseman, *Risk and Response in Fracturing Policy*, 84 UNV. OF COL. L. REV. 729-817, 776 (2009).

¹²⁵ Hannah Wiseman, *Risk and Response in Fracturing Policy*, 84 UNV. OF COL. L. REV. 729-817, 770 (2009).

¹²⁶ EPA Study, at 10-6, available at <https://cfpub.epa.gov/ncea/hfstudy/recordisplay.cfm?deid=332990> (last visited Feb. 28, 2019).

¹²⁷ *Id.*

¹²⁸ *Id.* at 8-3.

¹²⁹ EPA, *Underground Injection Control, General Information About Injection Wells*, <https://www.epa.gov/uic/general-information-about-injection-wells> (last visited Feb. 28, 2019).

¹³⁰ *Id.*

¹³¹ Watershed Council, *Regulations and Exemptions*, <https://www.watershedcouncil.org/hydraulic-fracturing---regulations-and-exemptions.html> (last visited Feb. 28, 2019).

¹³² Email from Kevin Cleary, Director of Legislative Affairs, DEP, RE: Class II Injection Wells in FL (Feb. 11, 2019).

activity in certain areas.¹³³ The Oklahoma Geological Survey determined that the primary suspected source of triggered seismicity is from the injection of produced water associated with oil and gas production in disposal wells.¹³⁴ The likelihood of potentially inducing seismic events differs between regions, based on factors such as geology and the wastewaters produced.¹³⁵ Additionally, in some states, the produced water is being sent to treatment facilities that are not equipped to treat wastewater from hydraulically fractured wells.¹³⁶ In June of 2016, the EPA, under the authority of the CWA, published final rules for the oil and gas extraction category.¹³⁷ The rules establish pretreatment standards that prevent the discharge of pollutants in wastewater from onshore, unconventional oil and gas facilities to publicly owned treatment works.¹³⁸ A voluntary remand for the final rule is currently in effect.¹³⁹

Air Quality

The key aerial emissions associated with unconventional oil and gas production include methane (the main component of natural gas and a potent greenhouse gas), volatile organic compounds (VOCs), nitrogen oxides, sulfur dioxide, particulate matter, and various hazardous air pollutants.¹⁴⁰ In 2012, the EPA issued the first federal air standards for hydraulically fractured natural gas wells.¹⁴¹ The New Source Performance Standards required reductions in VOC emissions from hydraulically fractured natural gas wells.¹⁴²

In May of 2016, the EPA issued three rules which together sought to curb emissions of methane, VOCs, toxins, and air pollutants, such as benzene, from new, reconstructed, and modified oil and gas sources.¹⁴³ The final rule on new and modified sources required compressor stations to

¹³³ See Peter Folger & Mary Tiemann, Cong. Research Serv., R 43836, *Human-Induced Earthquakes from Deep-Well Injection: A Brief Overview* (Sept. 30, 2016), available at <https://www.fas.org/sfp/crs/misc/R43836.pdf> (last visited Feb. 28, 2019).

¹³⁴ Oklahoma Geological Survey, *Statement on Oklahoma Seismicity*, 1 (Apr. 21, 2015), http://wichita.ogs.ou.edu/documents/OGS_Statement-Earthquakes-4-21-15.pdf (last visited Feb. 28, 2018).

¹³⁵ Tanya Gallegos, Brian Varela, Seth Haines, & Mark Engle, *Hydraulic Fracturing Water Use Variability in the United States and Potential Environmental Implications*, Water Resour. Res., 5839–5845, 5844 (2015), available at <https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/2015WR017278> (last visited Feb. 28, 2019).

¹³⁶ Hannah Wiseman, *Risk and Response in Fracturing Policy*, 84 UNV. OF COL. L. REV. 729–817, 768–769 (2009), available at http://lawreview.colorado.edu/wp-content/uploads/2013/11/11.-Wiseman_For-Printer_s.pdf (last visited Feb. 28, 2019).

¹³⁷ Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category, 81 Fed. Reg. 41845–41857 (June 3, 2016), available at <https://www.govinfo.gov/content/pkg/FR-2016-06-28/pdf/2016-14901.pdf> (last visited Feb. 28, 2019).

¹³⁸ EPA, *Unconventional Extraction in the Oil and Gas Industry*, <http://www2.epa.gov/eg/unconventional-extraction-oil-and-gas-industry> (last visited Feb. 28, 2019).

¹³⁹ Effluent Limitations Guidelines and Standards for the Oil and Gas Extraction Point Source Category-Implementation Date Extension, 81, Fed. Reg. 88126–88127 (Dec. 7, 2016), available at <https://www.govinfo.gov/content/pkg/FR-2016-12-07/pdf/2016-29338.pdf> (last visited Feb. 28, 2019). The rule extended the compliance date to August 29, 2019, for existing sources that were lawfully discharging.

¹⁴⁰ Michael Ratner & Mary Tiemann, Cong. Research Serv., R 43148, *An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions*, 9 (Apr. 22, 2015); see Richard Lattanzio, R 42986, *Methane and Other Air Pollution Issues in Natural Gas Systems* (Nov. 5, 2018), available at <https://fas.org/sfp/crs/misc/R42986.pdf> (last visited Feb. 28, 2019).

¹⁴¹ Michael Ratner & Mary Tiemann, Cong. Research Serv., R 43148, *An Overview of Unconventional Oil and Natural Gas: Resources and Federal Actions*, 14 (Apr. 22, 2015).

¹⁴² EPA, *Controlling Air Pollution from the Oil and Natural Gas Industry*, <https://www.epa.gov/controlling-air-pollution-oil-and-natural-gas-industry> (last visited Feb. 28, 2019).

¹⁴³ Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources, 81 Fed. Reg. 35824–35942 (June 3, 2016), available at <https://www.govinfo.gov/content/pkg/FR-2016-06-03/pdf/2016-11971.pdf> (last visited Feb. 28, 2019).

monitor leaks, also known as “fugitive emissions,” and required owners or operators to find and repair such leaks, which can be a significant source of both methane and VOC pollution.¹⁴⁴ The rule phased in requirements for a process known as “green completion” to capture aerial emissions from hydraulically fractured wells.¹⁴⁵ The EPA expects that implementation of the rule will reduce air pollutants and toxins, as well as provide health benefits related to reductions in fine particle pollution and ozone toxics, along with improvements in visibility.¹⁴⁶ In October of 2018, the EPA proposed clarifications and amendments regarding details of the rule’s implementation.¹⁴⁷

III. Effect of Proposed Changes:

Section 1 amends s. 377.19 to define the term “fracking” as all stages of a well intervention performed by injecting large volumes of fluids at a high rate into a rock formation at pressures that exceed the fracture gradient of the rock formation in order to propagate hydraulic fractures. It specifies that this does not include other well intervention techniques, including conventional well stimulation or conventional workover procedures; techniques used for routine well work, well maintenance, or removal of formation damage due to drilling or production; or conventional acidizing techniques used to enhance, maintain, or restore the natural permeability of the formation.

Section 2 amends section 377.22, F.S., to set a minimum bond for certain operations in the Everglades Protection Area. It specifies a minimum bond of \$500,000 per well or a minimum of \$5 million for a blanket bond.

Section 3 creates s. 377.2405, F.S., which states that fracking is prohibited in this state and that a permit for drilling or operating a well in this state does not authorize fracking. It also prohibits the disposal of flowback fluid by deep well injection or any other below ground method and defines “flowback fluid” as any liquid that flows back to the surface during or after completion of a well stimulation.

Feb. 28, 2019); Source Determination for Certain Emission Units in the Oil and Natural Gas Sector, 81 Fed. Reg. 35622–35634 (June 3, 2016), available at <https://www.govinfo.gov/content/pkg/FR-2016-06-03/pdf/2016-11968.pdf> (last visited Feb. 28, 2019); Federal Implementation Plan for True Minor Sources in Indian Country in the Oil and Natural Gas Production and Natural Gas Processing Segments of the Oil and Natural Gas Sector; Amendments to the Federal Minor New Source Review Program in Indian Country To Address Requirements for True Minor Sources in the Oil and Natural Gas Sector, 81 Fed. Reg. 35944–35981 (June 3, 2019), available at <https://www.govinfo.gov/content/pkg/FR-2016-06-03/pdf/2016-11969.pdf> (last visited Feb. 28, 2019).

¹⁴⁴ EPA, *EPA’s Actions to Reduce Methane Emissions from the Oil and Gas Industry: Final Rules and Draft Information Collection Request*, 2 (2016), available at <https://www.epa.gov/sites/production/files/2016-09/documents/nsps-overview-fs.pdf> (last visited Feb. 28, 2019).

¹⁴⁵ *Id.* at 3.

¹⁴⁶ *Id.* at 4.

¹⁴⁷ Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources Reconsideration, 83 Fed. Reg. 52056–52107 (Oct. 15, 2018), available at <https://www.govinfo.gov/content/pkg/FR-2018-10-15/pdf/2018-20961.pdf> (last visited Feb. 28, 2019); see EPA, *EPA Proposes Amendments to the 2016 New Source Performance Standards for the Oil and Natural Gas Industry: Fact Sheet* (2018), available at https://www.epa.gov/sites/production/files/2018-09/documents/oil_and_gas_technical_proposal_fact_sheet.9.11.18_0.pdf (last visited Feb. 28, 2019).

Section 4 amends s. 377.244, F.S., to require an applicant for certain explorations for and extraction of minerals to post a minimum bond for projects in the Everglades Protection Area.

Section 5 amends s. 377.37, F.S., to increase civil penalties for certain violations from \$10,000 per offense to \$50,000 per offense when the offense occurs in the Everglades Protection Area.

Section 6 creates s. 377.421, F.S., which specifies requirements when drilling in the Everglades Protection Area. The Everglades Protection Area is defined as Water Conservation Areas 1, 2A, 2B, 3A, and 3B; the Arthur R. Marshall Loxahatchee National Wildlife Refuge; and the Everglades National Park. It requires DEP to evaluate each application to drill and to visit each proposed access route and drilling site in the area to ensure that exploration and production activities will not cause permanent adverse impact on the water resources, sheet flow, vegetation, or wildlife of the area. In evaluating applications, the department shall use certain criteria.

For roads, including road extensions:

- A permit to drill must be obtained before any road construction or improvement begins.
- Existing roads must be used where feasible.
- The improvement of existing roads or the construction of new roads must be completed from trucked-in fill material that is taken from approved borrow pits. There may not be any parallel borrow canals along roads.
- All roads must have culverts installed and be maintained to prevent degradation by industry vehicles. The size and number of culverts must be sufficient to ensure that the natural flow of water is not impeded and the resource is protected.
- All roads must be only wide enough to accommodate one lane of traffic, but must have at least one turnout every mile for passing.
- All road elevations must be high enough to assure year-round usage, except where otherwise expressly required to be less.
- All roads must follow the best practical route suited to protect the natural environment. Where feasible, roads and road extensions should follow existing wood roads.
- Roads must be constructed in a way that avoids serious damage to or enduring scars to land and loss of wildlife, and must be constructed to avoid obstructing the natural movement of water and wildlife.
- All roads must be restored as specified in rule 62C-29.009, F.A.C.
- All new access roads authorized to serve the needs of exploration activities must be limited in use to the permitted purpose and the applicant shall submit as part of the permit application the means to accomplish the limited use.
- Access corridors and drilling pads may not be constructed in or through sensitive resources, and certain resources are specified.
- Access corridors, including pipelines, must be contiguous where possible and corridors emanating from new entry points must be prohibited unless the applicant demonstrates them to be more prudent and reasonable alternative.

For drilling sites:

- The sites must be located to minimize negative impacts on the vegetation and wildlife, including rare and endangered species, and on the surface water resources.

- Topographical and engineering surveys of the drilling site, together with an aerial photograph of the drill site, shall be prepared at a large scale with the well spotted thereupon and included as a part of the permit application.
- Site preparation may not begin before the applicant obtains a permit to drill.
- Every effort shall be made to limit the drilling's impact on the Everglades Protection Area environment by using prairies, limited-growth forest, grazing, farming, or cleared lands where practical.
- Drilling pads shall be constructed from trucked-in fill material that is taken from approved borrow pits and be constructed to an elevation sufficient to ensure year-round usage.
- A protective berm of sufficient height and impermeability to prevent the escape of pad fluids shall be constructed around the drilling site and storage tank areas.
- Directional or slant drilling shall be used from existing drilling pads where technically feasible and where it will have a beneficial effect upon maintaining environmental quality.
- All drilling sites shall be restored as specified in rule 62C-29.009, F.A.C.

For production:

- The operating company shall submit to DEP a field development plan as soon as practical for each new field. All transportation of oil in the Everglades Protection Area shall be by pipeline.
- If the oil from a producing well is to be removed by pipeline, the pipeline must be equipped with automatic shut-off valves.
- All flowlines and utilities shall be contained within the rights-of-way secured for road construction.
- The operating company shall develop an emergency and contingency plan and an updated plan shall be submitted annually to DEP.
- The operating company shall clean the site of any oil or other contaminant spilled in conjunction with the drilling, production, and transportation activities. Spill response and remediation equipment must remain on site and be made available for immediate use to accomplish this goal.

Within the Everglades Protection Area, wildlife impact study must be completed at the time of the initial application and at the time of subsequent recertification. Oil refining is prohibited in the Everglades Protection Area.

Section 7 amends s. 570.93, F.S., to prohibit flowback fluid from being used to irrigate crops. Flowback fluid is defined as any liquid that flows back to the surface during or after completion of well stimulation.

Section 8 provides that the bill takes effect July 1, 2019.

IV. Constitutional Issues:

A. Municipality/County Mandates Restrictions:

None.

B. Public Records/Open Meetings Issues:

None.

C. Trust Funds Restrictions:

None.

D. State Tax or Fee Increases:

None.

E. Other Constitutional Issues:

None identified.

V. Fiscal Impact Statement:**A. Tax/Fee Issues:**

None.

B. Private Sector Impact:

This bill may have an impact on the private sector, as it prohibits certain techniques used to increase production or recovery from an oil or gas well. It also increases bonding requirements and penalties for violations when drilling in the Everglades Protection Area.

C. Government Sector Impact:

DEP will need to revise existing rules to implement the prohibition of fracking and the additional specifications in the Everglades Protection Area. The increase in penalties could result in additional revenue to the state.

VI. Technical Deficiencies:

None.

VII. Related Issues:

None.

VIII. Statutes Affected:

This bill substantially amends the following sections of the Florida Statutes: 377.19, 377.22, 377.244, 377.37, and 570.93.

This bill creates the following sections of the Florida Statutes: 377.2405 and 377.421.

IX. Additional Information:

A. Committee Substitute – Statement of Changes:

(Summarizing differences between the Committee Substitute and the prior version of the bill.)

None.

B. Amendments:

None.

This Senate Bill Analysis does not reflect the intent or official position of the bill's introducer or the Florida Senate.



320578

LEGISLATIVE ACTION

Senate	.	House
Comm: WD	.	
03/11/2019	.	
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The Committee on Agriculture (Broxson) recommended the following:

Senate Amendment (with title amendment)

Delete lines 33 - 35

and insert:

377.2405 Well stimulation.—All of the following are prohibited in this state:

(1) Fracking. A permit for drilling or operating a well does not authorize fracking.

(2) (a) For wells that are drilled to a depth of greater than 15 feet below land surface, the use of acid to dissolve



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carbonate formations in the form of rock matrix, drill cuttings,
or encrusted or deposited layers in or near a wellbore.

(b) The use of acids, including, but not limited to,
hydrochloric acid, hydrofluoric acid, muriatic acid, glycolic
acid, phosphoric acid, sulfamic acid, acetic acid, citric acid,
hydroxyacetic acid, and oxalic acid, which have an acid
concentration of more than 5 percent in wells for the production
or stimulation of fluid flow including fresh water, saltwater,
or crude oil.

===== T I T L E A M E N D M E N T =====

And the title is amended as follows:

Delete lines 2 - 6

and insert:

An act relating to well stimulation; amending s.
377.19, F.S.; defining the term "fracking"; creating
s. 377.2405, F.S.; prohibiting fracking in this state;
providing that permits for drilling or operating a
well do not authorize fracking; prohibiting the use of
acid in certain wells to dissolve carbonate formations
in or near a wellbore in this state; prohibiting the
use of acids in a concentration greater than a
specified percentage in all wells for a specified
purpose; providing an effective date.



293088

LEGISLATIVE ACTION

Senate	.	House
Comm: FAV	.	
03/11/2019	.	
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The Committee on Agriculture (Albritton) recommended the following:

Senate Amendment (with title amendment)

Between lines 35 and 36
insert:

Section 3. Paragraph (f) of subsection (2) of section
377.22, Florida Statutes, is amended to read:

377.22 Rules and orders.—

(2) The department shall issue orders and adopt rules
pursuant to ss. 120.536 and 120.54 to implement and enforce the
provisions of this chapter. Such rules and orders shall ensure



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that all precautions are taken to prevent the spillage of oil or any other pollutant in all phases of the drilling for, and extracting of, oil, gas, or other petroleum products, or during the injection of gas into and recovery of gas from a natural gas storage reservoir. The department shall revise such rules from time to time as necessary for the proper administration and enforcement of this chapter. Rules adopted and orders issued in accordance with this section are for, but not limited to, the following purposes:

(f) To require a reasonable bond, or other form of security acceptable to the department, conditioned upon the performance of the duty to plug properly each dry and abandoned well and the full and complete restoration by the applicant of the area over which geophysical exploration, drilling, or production is conducted to the similar contour and general condition in existence before ~~prior to~~ such operation. In the Everglades Protection Area, the bond must be for a minimum of \$500,000 per well or, for a blanket bond, for a minimum of \$5 million.

Section 4. Paragraph (b) of subsection (1) of section 377.244, Florida Statutes, is amended to read:

377.244 Conditions for granting permits for surface exploratory and extraction operations.—

(1) Exploration for and extraction of minerals under and by virtue of the authority of a grant of oil, gas, or mineral rights, or which, subsequent to such grant, may be interpreted to include the right to explore for and extract minerals which are subject to extraction from the land by means other than through a well hole, that is by means of surface exploratory and extraction operations such as sifting of the sands, dragline,



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open pit mining, or other type of surface operation, which would include movement of sands, dirt, rock, or minerals, shall be exercised only pursuant to permit issued by the Division of Resource Management upon applicant complying with the following conditions:

(b) The applicant shall post a good and sufficient surety bond with the division in such amount as the division may determine is adequate to afford full and complete protection for the owner of the surface rights of the lands described in the application, conditioned upon the full and complete restoration, by the applicant, of the area over which the exploratory and extraction operations are conducted to the same condition and contour in existence before ~~prior to~~ such operations. In the Everglades Protection Area, the bond must be for a minimum of \$500,000 per well or, for a blanket bond, for a minimum of \$5 million.

Section 5. Paragraph (a) of subsection (1) of section 377.37, Florida Statutes, is amended to read:

377.37 Penalties.—

(1)(a) Any person who violates any provision of this law or any rule, regulation, or order of the division made under this chapter or who violates the terms of any permit to drill for or produce oil, gas, or other petroleum products referred to in s. 377.242(1) or to store gas in a natural gas storage facility, or any lessee, permitholder, or operator of equipment or facilities used in the exploration for, drilling for, or production of oil, gas, or other petroleum products, or storage of gas in a natural gas storage facility, who refuses inspection by the division as provided in this chapter, is liable to the state for any damage



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caused to the air, waters, or property, including animal, plant, or aquatic life, of the state and for reasonable costs and expenses of the state in tracing the source of the discharge, in controlling and abating the source and the pollutants, and in restoring the air, waters, and property, including animal, plant, and aquatic life, of the state. Furthermore, such person, lessee, permitholder, or operator is subject to the judicial imposition of a civil penalty in an amount of not more than \$10,000 for each offense, except that for offenses occurring in the Everglades Protection Area the penalty is \$50,000 for each offense. However, the court may receive evidence in mitigation. Each day during any portion of which such violation occurs constitutes a separate offense. Nothing herein shall give the department the right to bring an action on behalf of any private person.

Section 6. Section 377.421, Florida Statutes, is created to read:

377.421 Drilling in the Everglades Protection Area.—

(1) For purposes of this section, the term "Everglades Protection Area" means Water Conservation Areas 1, 2A, 2B, 3A, and 3B; the Arthur R. Marshall Loxahatchee National Wildlife Refuge; and the Everglades National Park.

(2) The Department of Environmental Protection shall evaluate each application to drill and shall visit each proposed access route and drilling site in the Everglades Protection Area to ensure that the exploration and production activities will not cause any permanent adverse impact on the water resources or the sheet flow of the area or on the vegetation or the wildlife of the area, with a special emphasis placed on rare and



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endangered species. If a proposed site is located on developed or highly impacted uplands, the department must review the application and field inspection reports from staff to determine whether to reinspect the site. If a reinspection is necessary, subparagraph (3)(a)1. does not apply.

(3) In evaluating applications, the department shall use the following criteria:

(a) For roads, including road extensions:

1. A permit to drill must be obtained before any road construction or improvement begins.

2. Existing roads must be used where feasible.

3. The improvement of existing roads or the construction of new roads must be completed from trucked-in fill material that is taken from approved borrow pits. There may not be any parallel borrow canals along roads.

4. All roads must have culverts installed and be maintained to prevent degradation by industry vehicles. The size and number of culverts must be sufficient to ensure that the natural flow of water is not impeded and the resource is protected.

5. All roads may be only wide enough to accommodate one lane of traffic, but must have at least one turnout every mile for passing.

6. All road elevations must be high enough to assure year-round usage, except where otherwise expressly required to be less.

7. All roads must follow the best practical route suited to protect the natural environment. Where feasible, roads and road extensions should follow existing wood roads.

8. Roads must be constructed in a way that avoids serious



293088

damage to or enduring scars to land and loss of wildlife, and must be constructed to avoid obstructing the natural movement of water and wildlife.

9. All roads must be restored as specified in rule 62C-29.009, F.A.C.

10. All new access roads authorized to serve the needs of exploration activities must be limited in use to the permitted purpose. For these limited use access roads, the applicant shall submit as part of the permit application the means to accomplish the limited use, including the control of unauthorized vehicles, for the duration of the permitted purpose of the road.

11. Access corridors and drilling pads may not be constructed in or through sensitive resources, such as cypress or mixed forest swamps, hardwood hammocks, mangrove forests, archaeological sites, native ceremonial grounds, and those zones documented or confirmed by the Fish and Wildlife Conservation Commission as being areas of high-level Florida panther activity unless reasonable and prudent alternatives are not available. Known red-cockaded woodpecker colonies, rookeries, alligator holes, research sites, pine uplands, and threatened or endangered species habitats must be avoided where possible.

12. Access corridors, including pipelines, must be contiguous where possible and corridors emanating from new entry points must be prohibited unless the applicant demonstrates them to be the more prudent and reasonable alternative.

(b) For drilling sites:

1. The sites must be located to minimize negative impacts on the vegetation and wildlife, including rare and endangered species, and on the surface water resources.



293088

2. Topographical and engineering surveys of the drilling site, together with an aerial photograph of the drill site, shall be prepared at a large scale with the well spotted thereupon and included as a part of the permit application.

3. Site preparation may not begin before the applicant obtains a permit to drill, except as specified in subsection (2).

4. Every effort shall be made to limit the drilling's impact on the Everglades Protection Area environment by using prairies, limited-growth forest, grazing, farming, or cleared lands where practical.

5. Drilling pads shall be constructed from trucked-in fill material that is taken from approved borrow pits and be constructed to an elevation sufficient to ensure year-round usage.

6. A protective berm of sufficient height and impermeability to prevent the escape of pad fluids shall be constructed around the drilling site and storage tank areas.

7. Directional or slant drilling shall be used from existing drilling pads where technically feasible and where it will have a beneficial effect upon maintaining environmental quality.

8. All drilling sites shall be restored as specified in rule 62C-29.009, Florida Administrative Code.

(c) For production:

1. The operating company shall submit to the department a field development plan as soon as practical for each new field. All transportation of oil in the Everglades Protection Area shall be by pipeline.



293088

2. If the oil from a producing well is to be removed by pipeline, the pipeline must be equipped with automatic shut-off valves.

3. All flowlines and utilities shall be contained within the rights-of-way secured for road construction.

4. The operating company shall develop an emergency and contingency plan. An updated plan must be submitted annually to the department.

5. The operating company shall clean the site of any oil or other contaminants spilled in conjunction with the drilling, production, and transportation activities. Spill response and remediation equipment must remain on site and be made available for immediate use to accomplish this goal.

(4) Within the Everglades Protection Area, a wildlife impact study must be completed at the time of the initial application and at the time of subsequent recertification.

(5) The refining of oil is prohibited in the Everglades Protection Area.

Section 7. Subsection (3) is added to section 570.93, Florida Statutes, to read:

570.93 Department of Agriculture and Consumer Services; agricultural water conservation and agricultural water supply planning.—

(3) The use of flowback fluid for crop irrigation is prohibited in this state. For purposes of this subsection, the term "flowback fluid" means any liquid that flows back to the surface during or after completion of well stimulation.

===== T I T L E A M E N D M E N T =====



293088

And the title is amended as follows:

Delete lines 2 - 6

and insert:

An act relating to oil drilling; amending s. 377.19, F.S.; defining the term "fracking"; creating s. 377.2405, F.S.; prohibiting fracking in this state; providing that permits for drilling or operating a well do not authorize fracking; amending s. 377.22, F.S.; requiring specified amounts for bonds for certain operations in the Everglades Protection Area; amending s. 377.244, F.S.; requiring an applicant for certain explorations for and extraction of minerals to post a specified surety bond for projects in the Everglades Protection Area; amending s. 377.37, F.S.; revising civil penalties for certain violations to require an increased penalty for offenses occurring in the Everglades Protection Area; creating s. 377.421, F.S.; defining the term "Everglades Protection Area; requiring the Department of Environmental Protection to evaluate drilling applications and visit proposed access routes and drilling sites in the Everglades Protection Area for specified purposes; specifying requirements for such evaluation; requiring a wildlife impact study for the initial application and subsequent recertification; prohibiting the refining of oil within the Everglades Protection Area; amending s. 570.93, F.S.; prohibiting the use of flowback fluid for crop irrigation in this state; defining the term "flowback fluid"; providing an effective date.



926982

LEGISLATIVE ACTION

Senate	.	House
Comm: FAV	.	
03/11/2019	.	
	.	
	.	
	.	

The Committee on Agriculture (Albritton) recommended the following:

Senate Amendment (with title amendment)

Delete line 35
and insert:
fracking. The disposal of flowback fluid by deep well injection
or any other below ground method is prohibited in this state.
For purposes of this section, the term "flowback fluid" means
any liquid that flows back to the surface during or after
completion of well stimulation.



926982

11 ===== T I T L E A M E N D M E N T =====

12 And the title is amended as follows:

13 Delete line 6

14 and insert:

15 authorize fracking; prohibiting the disposal of
16 flowback fluid by deep well injection or any other
17 below ground method in this state; defining the term
18 "flowback fluid"; providing an effective date.

FOR CONSIDERATION By the Committee on Agriculture

575-02367-19

20197064pb

A bill to be entitled

An act relating to fracking; amending s. 377.19, F.S.; defining the term "fracking"; creating s. 377.2405, F.S.; prohibiting fracking in this state; providing that permits for drilling or operating a well do not authorize fracking; providing an effective date.

Be It Enacted by the Legislature of the State of Florida:

Section 1. Present subsections (5) through (32) of section 377.19, Florida Statutes, are redesignated as subsections (6) through (33), respectively, and a new subsection (5) is added to that section, and present subsection (5) of that section is amended, to read:

377.19 Definitions.—As used in ss. 377.06, 377.07, and 377.10-377.40, the term:

(5) "Fracking" means all stages of a well intervention performed by injecting large volumes of fluids at a high rate into a rock formation at pressures that exceed the fracture gradient of the rock formation in order to propagate hydraulic fractures. The term does not include other well intervention techniques, including conventional well stimulation or conventional workover procedures; techniques used for routine well cleanout work, well maintenance, or removal of formation damage due to drilling or production; or conventional acidizing techniques used to enhance, maintain, or restore the natural permeability of the formation.

(6) ~~(5)~~ "Gas" means all natural gas, including casinghead gas, and all other hydrocarbons not defined as oil in subsection

Page 1 of 2

CODING: Words ~~stricken~~ are deletions; words underlined are additions.

575-02367-19

20197064pb

~~(16) (15)~~.

Section 2. Section 377.2405, Florida Statutes, is created to read:

377.2405 Fracking.—Fracking is prohibited in this state. A permit for drilling or operating a well does not authorize fracking.

Section 3. This act shall take effect July 1, 2019.

Page 2 of 2

CODING: Words ~~stricken~~ are deletions; words underlined are additions.

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-4-2019
Meeting Date

7069
Bill Number (if applicable)

Topic Fucking

Amendment Barcode (if applicable)

Name Aaron Carmella

Job Title _____

Address 625 Gore St N
Street

Phone 727.204.8622

St Petersburg FL 33701
City State Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SPB 7064

Meeting Date _____

Bill Number (if applicable) _____

Topic Fracking Ban

Amendment Barcode (if applicable) _____

Name Rosalyn KilcollinsJob Title ConsultantAddress 2505 Arthurs Court LanePhone 850-570-8889Street Tallahassee FL 32301

City State Zip

Email Roztally@combarqmail.comSpeaking: ☐ For ☐ Against ☐ InformationWaive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

03/04

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic _____

Amendment Barcode (if applicable)

Name Mx. V. Miller

Job Title Campaign Director, ReThink Energy Florida

Address 3034 O'Brien Dr.

Phone 850-766-6867

Street Tallahassee

City FL

State

Zip 32309

Email V.miller@rethinkenergyflorida.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No
(Unpaid)

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/4/2019

Meeting Date

SB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Jennifer RUBIELLO

Job Title Director

Address 3110 1st Ave N, Ste 2H
Street

Phone 727 327 3138

St. Petersburg, FL 33713
City State Zip

Email jennifer@environment
florida.org

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Environment FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

03/04/19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Dontavia Brown

Job Title Transit Operator

Address 710 NW 16th Ave

Phone 352-514-0709

Street

Gainesville

City

Fla

State

32601

Zip

Email dcbrown0709@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19
Meeting Date

320578
Bill Number (if applicable)

Topic fracking ban

Amendment Barcode (if applicable)

Name Ellen-Claire Newell

Job Title Student

Address 1744 Tarpon Dr.
Street

Phone 850-445-3839

Tallahassee FL 32308
City State Zip

Email newellc@icloud.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Physicians for Social Responsibility

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/20

Meeting Date

SPB 7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Brossan

Topic Matrix Acidizing and Acid Cleaning

Name Susan McLeod

Job Title Pharmacist

Address 801 Chestwood Ave
Street

Phone 880-264-4217

Tallahassee FL 3203
City State Zip

Email mcleodks801@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing self and all sentient beings who need water to live

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

AM. 320578

Bill Number (if applicable)

Topic FRACKING BAN

Amendment Barcode (if applicable)

Name EDWARD T. OAKSFORD

Job Title RETIRED

Address 2520 HARRIMAN CIR

Street

Phone 850-556-8325

TALLAHASSEE FL 32308

City

State

Zip

Email oaksford@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing SELF

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

~~320578~~

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Fracking ban

Name Linda Oaksford

Job Title Retired

Address 2520 Harriman Circle

Street

Tallahassee, FL

City

State

32308

Zip

Phone _____

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/14/19
Meeting Date

7264
Bill Number (if applicable)

Topic PROVING

320578
Amendment Barcode (if applicable)

Name META CALDER

Job Title _____

Address 3740 RAVINE DR
Street

Phone 850-228-8900

TALLAHASSEE FL 32312
City State Zip

Email meta@calder.org

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☐ No Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

Broxson Amendment

Amendment Barcode (if applicable)

320578

Topic _____

Name Chris Colson

Job Title Project Geologist

Address 7584 W. Tennessee St.

Street

Tallahassee

City

FL

State

32304

Zip

Phone _____

Email _____

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Rowe Drilling Company

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7264

Bill Number (if applicable)

Broxson Amendment

Amendment Barcode (if applicable)

320578

Topic _____

Name RANDY CONRAD

Job Title Business Development

Address 1215 Wallace Dr
Street

Phone _____

Delray Beach
City

State

Zip

Email _____

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing GFA International

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19
Meeting Date

7064
Bill Number (if applicable)

Topic _____

BRD KSD Antup
Amendment Barcode (if applicable)

Name Thomas Herbert

320579

Job Title GEOLOGIST

Address 546 EAST COLL ST
Street

Phone _____

City PALM BEACH State FL Zip _____

Email _____

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing FLIPPA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

~~3000578~~
Bill Number (if applicable)
320578
Amendment Barcode (if applicable)

Topic

Name Alexandra Pividal

Job Title Rethink Energy Florida

Address 614 W Madison St
Street

Tallahassee FL 32304
City State Zip

Phone 8134841053

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

03/11/19

Meeting Date

7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic FRACKING

Name JENNIFER C. WRIGHT

Job Title CITIZEN

Address 3026 B CLOUDLAND DRIVE

Street

TALLAHASSEE

City

FL

State

32312

Zip

Phone 850-408-7552

Email Jennifer.C.Wright@
Hotmail.Com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing N/A

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

11-Mar-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Fracking Ban

Name Ken Hays

Job Title retired

Address 1935 Nantucket Cir

Street

Tallahassee

City

FL

State

32303

Zip

Phone 850-980-7053

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Concerned Floridians

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Ban Fracking

Name Michelle Allen

Job Title Florida Organizer

Address 319 37th St S

Street

St Pete

City

FL

State

33711

Zip

Phone 727-217-5135

Email mailenofwater.org

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Food & Water Watch

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

Bill Number (if applicable)

320578

Topic Amendment 320578

Amendment Barcode (if applicable)

Name JACK NORRIS

Job Title ReThink Energy Florida Intern

Address 213 Cactus St

Phone

Street

Tallahassee FL

Email

City

State

Zip

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11

Meeting Date

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Frocking Amendment

Name Mr. V. Miller

Job Title _____

Address 3034 O'Brien Drive

Phone 850-766-6867

Street

Tallahassee

FL

32309

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic _____

Name Leighanne Boone

Job Title _____

Address _____
Street

Phone _____

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Action Fund

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SB 7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Fracking

Name Joanna Bonfanti (Bon-Fawn-tee)

Job Title Gov. Affairs

Address 215 S. Monroe St. Suite 101

Street

Tallahassee

City

FL

State

32301

Zip

Phone 850-521-1980

Email jbonfanti@gunster.com

Speaking: ☐ For ☒ Against ☐ Information
amendment

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing FL. Section American Water Works Association

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic Fracking

Name Brian Lee

Job Title Legislative Director

Address 1203 Buckingham Dr

Street

Tallahassee FL 32308

City

State

Zip

Phone 850-766-7309

Email _____

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Floridians Against Fracking

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

17064

Bill Number (if applicable)

320578

Amendment Barcode (if applicable)

Topic fracking - Broxson Amendment

Name Kim Ross

Job Title Executive Director

Address 603 N MLK Jr Blvd

Street

Phone 850-888-2565

Email

City

State

Zip

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Florida

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

(unrecorded)

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

→ 320578

Amendment Barcode (if applicable)

Topic FRACKING

Name DAVID CULLEN

Job Title _____

Address 1674 Univ. Pkwy #296
Street

Phone 941-323-2404

City

State

Zip

Email cullenades@aol.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing SIERRA CLUB FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7D64
Bill Number (if applicable)
320578
Amendment Barcode (if applicable)

Topic Oil & Gas

Name DAVID MICA

Job Title Director

Address 215 S MONROE ST Ste 800 Phone 561-6300

TALLAHASSEE FL 32312
City State Zip

Email MICAP@API.ORG

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing FLORIDA Petroleum Council

Appearing at request of Chair: ☒ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19
Meeting Date

Topic Bill 7064

Name Dell Cates

Job Title retired

Address 2704 Laurelwood Ln
Street

Phone 850-567-9353

City

State

Zip

Email dellcates@aol.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

7064
Bill Number (if applicable)

3205781293086
Amendment Barcode (if applicable)

Both Amdmts

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

Topic SB 7064

320578/293088

Amendment Barcode (if applicable)

Name JOHN LORENZ

Both Amendments

Job Title RETIRED

Address 2517 ARTHUR'S COURT LN.

Street

Phone 850-877-1756

TALLAHASSEE

City

FL

State

32301

Zip

Email PARK6IT@GMAIL.COM

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing RETHINK ENERGY FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

SPB 293088

Bill Number (if applicable)

Topic Fracking ban

Amendment Barcode (if applicable)

Name Ellen-Claire Newell

Job Title Student

Address 1744 Tarpon Dr.

Phone 950-445-3839

Street

Tallahassee

FL

32308

City

State

Zip

Email newelle@icbud.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Physicians for Social Responsibility

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

March 11, 2019

Meeting Date

SPB 7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Albritton

Topic Fracking Ban vs Oil Drilling

Name Susan McLeod

Job Title Pharmacist & Science Educator

Address 801 Chestwood Ave

Street

Tallahassee, FL

City

State

32303

Zip

Phone 850-264-4217

Email mcleodks801@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self and everyone who has ever enjoyed a beach in Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

Am 293088
Bill Number (if applicable)

Topic FRACKING BAN

Amendment Barcode (if applicable)

Name EDWARD T OAKSFORD

Job Title REIRED

Address 2520 HARRIMAN CIR
Street

Phone 850 556 8325

TALLAHASSEE FL 32308
City State Zip

Email otoaksford@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing SELF

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7064
Bill Number (if applicable)

Topic TRADING

293088
Amendment Barcode (if applicable)

Name NETA CALDER

Job Title _____

Address 3748 RADONZ DR.

Phone 850-228-5900

TALLAHASSEE FL 32312
City State Zip

Email netacalder@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic FRACKING

Name DAVID COLLEN

Job Title _____

Address 1674 Univ. Pkwy #296
Street

Phone 941-323-2404

SARASOTA FL 34243
City State Zip

Email colld@sierraclub.org

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing SIERRA CLUB FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic Fracking

Name Brian Lee

Job Title Legislative Director

Address 1203 Buckingham Dr.

Street

Tallahassee FL 32308

City

State

Zip

Phone 850.766.7309

Email brian@rethinkenergyflorida.org

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Floridians Against Fracking

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic Ban Fracking

Name Michelle Allen

Job Title Florida Organizer

Address 319 37th St S

Street

St Pete

FL

City

State

33711

Zip

Phone 727-217-5135

Email mallen@fwwatch.org

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Food & Water Watch

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11

Meeting Date

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic

Frocking Amendment

Name

Mr U. Miller

Job Title

Address

Street

City

State

Zip

Phone

Email

3034 O'Brien Drive

Tallahassee

FL

32309

850-766-6867

Speaking:

☐

For

☐

Against

☐

Information

Waive Speaking:

☐

In Support

☒

Against

(The Chair will read this information into the record.)

Representing

Appearing at request of Chair:

☐

Yes

☒

No

Lobbyist registered with Legislature:

☐

Yes

☒

No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7064
Bill Number (if applicable)

293088
Amendment Barcode (if applicable)

Topic Oil & Gas

Name David Mica

Job Title Director

Address 2155 S. MONROE ST STE 800
Street

Phone 561-6300

TALLAHASSEE FL 32312
City State Zip

Email MICAD@AZI.ORG

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing FLORIDA PETROLEUM COUNCIL

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/14

Meeting Date

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic

Name Alexandra Pividal

Job Title Rethink Energy Florida

Address 614 W Madison St

Street

Tallahassee FL

State

32304

Zip

Phone 8134841053

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Rethink Energy Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

03/11/19

Meeting Date

7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic FRACKING

Name JENNIFER C. WRIGHT

Job Title CITIZEN

Address 3026-B CLOUDLAND DRIVE

Street

TALLAHASSEE

City

FL

State

32312

Zip

Phone 850-408-7552

Email Jennifer.C.Wright@hotmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing N/A

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/14/19

Meeting Date

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic

Name JACK NORRIS

Job Title

Address

Street

Tallahassee FL

City

State

Zip

Phone

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ReThink Energy Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

APPEARANCE RECORD

3-11-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SB 7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic Banning Fracking in all 3 typesName Amy Datz

Job Title _____

Address _____

Street

Tallahassee, FL

City

State

Zip

Phone

(850) 322-7529

Email

amaliadatz@mac.com

Speaking:

☐

For

☐

Against

☒

Information

Waive Speaking:

☐

In Support

☐

Against

(The Chair will read this information into the record.)

Representing

Environmental Caucus of Florida.

Appearing at request of Chair:

☐

Yes

☒

No

Lobbyist registered with Legislature:

☐

Yes

☒

No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic Fracking ban

Name Linda Oatford

Job Title Retired

Address 2520 Harri man Circle

Street

Tallahassee, FL

City

State

32308

Zip

Phone

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-14

Meeting Date

7064

Bill Number (if applicable)

→ 926982

Amendment Barcode (if applicable)

Topic FRACKING

Name DAVID CULLEN

Job Title _____

Address 1674 UNIVERSITY BLVD

Street

SARASOTA

City

FL

State

34243

Zip

Phone 941-323-2404

Email cullen@seced.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing SIERRA CLUB FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

<u>Meeting Date</u>			<u>17064</u> Bill Number (if applicable)	
Topic <u>Fracking</u>			<u>326576</u> Amendment Barcode (if applicable)	
Name <u>Shon O. Owens</u>				
Job Title <u>Mayor of Jay</u>				
Address _____ Street			Phone <u>800.504-0701</u>	
_____ City			_____ State	_____ Zip
Speaking: ☐ For ☐ Against ☐ Information			Waive Speaking: ☐ In Support ☐ Against <i>(The Chair will read this information into the record.)</i>	
Representing _____				
Appearing at request of Chair: ☒ Yes ☐ No			Lobbyist registered with Legislature: ☐ Yes ☐ No	

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7064
Bill Number (if applicable)

Topic Oil & Gas

926982
Amendment Barcode (if applicable)

Name David Mica

Job Title Director

Address 215 S. Monroe St 800
Street

Phone 561-6300

Tallahassee FL 32312
City State Zip

Email MicaDAOAFL.ORG

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Florida Petroleum Council

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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This form is part of the public record for this meeting.

S-001 (10/14/14)

APPEARANCE RECORD

Did not03/11/2019

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic FRACKINGName JENNIFER C. WRIGHTJob Title CITIZENAddress 3026-B CLOUDLAND DRIVE
StreetTALLAHASSEE
CityFL
State32312
ZipPhone 850-408-7552Email Jennifer.C.Wright@
hotmail.comSpeaking: ☐ For ☒ Against ☐ Information→ Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)Representing N/AAppearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

APPEARANCE RECORD

3/1/2019

Meeting Date

7064
~~7114~~

Bill Number (if applicable)

Topic Tracking

Amendment Barcode (if applicable)

Name Marc Freeman

Job Title *Professor Emeritus*

Address 5143 Leicle Hill
Street

Phone 850 980-4097

City

State

Zip

32303

Email prolactin@comcast

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic FRACKING / MATRIX ACADEMY

Amendment Barcode (if applicable)

Name CRAIG L. STEVENS

Job Title SELF EMPLOYED / BUSINESS OWNER

Address 1527 SILVER CREEK ROAD

Phone 949 456 6104

Street MONTROSE PA 18801

Email CUSTASSTEVENS@EARTHLINK.NET

City State Zip

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing PATRIOTS FROM THE OIL & GAS SHALES

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

Bill Number (if applicable)

7064

Amendment Barcode (if applicable)

Topic fracking

Name Alexandra Pividal

Job Title

Address 614 W Madison St

Street

Tallahassee

FL

32304

City

State

Zip

Phone (813) 484-1053

Email

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Rethink Energy Florida

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Carol Nicome-Brady

Job Title Business Representative

Address 5000 NW 59 Way

Phone 954-648-0015

Street

Coral Springs

FL

33067

City

State

Zip

Email Cnicome@hotmail.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic Frac King

Amendment Barcode (if applicable)

Name James IngleJob Title ElectionAddress 3509 NW 22nd Dr

Street

Phone 901-483-4800Gainesville

City

FL

State

32605

Zip

Email JwcnI@yahoo.comSpeaking: ☐ For ☒ Against ☐ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)Representing SelfAppearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Meeting Date _____

Topic Fracking

Amendment Barcode (if applicable)

Name Myra Smith

Job Title _____

Address 43 Bristol Lane

Phone _____

Street

Palatka Coast

City

FL

State

32137

Zip

Email myrabsmith@yahoo.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Democratic Women's Club - Flagler County

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

3/11 - 3/15

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

HB 13 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Latisha Jones

Job Title Para Transit

Address 4055 WILLOW DR

Phone 813-495-9765

Street

Mulberry

FL

33860

Email revlatisha@yahoo.com

City

State

Zip

Speaking: ☒ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing ATU 1593 Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-2019

Meeting Date

SB 7064
Bill Number (if applicable)

Topic

Fracking

Amendment Barcode (if applicable)

Name

John Smith

Job Title

CITIZEN

Address

925 NE 209 Street NMB, F Condo 201

Street

Phone

305 5258342North Miami Beach

City

FLA.

State

33179

Zip

Email

Smith133847@gmail.com

Speaking:

☐

For

☒

Against

☐

Information

Waive Speaking:

☐

In Support

☐

Against

(The Chair will read this information into the record.)

Representing

Self

Appearing at request of Chair:

☐

Yes

☒

No

Lobbyist registered with Legislature:

☐

Yes

☒

No

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

S.B. 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Lamar BynumJob Title CitizenAddress 11040 SW 217 Terr
StreetPhone 786-646-8185Miami FLA 33170
City State ZipEmail LamarBynum.L.B.Speaking: ☐ For ☒ Against ☐ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)Representing SelfAppearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

3/11/19
Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SB 704
Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Teldra Jones

Job Title

Address 2 Crescent Ct N

Phone

Street
City Palm Coast FL 32137
State Zip

Email ctkcjones@gmail.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing DUC of Flagler

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

3/11/19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

9064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name BARBARA S MURPHY

Job Title _____

Address 29 Cherokee Avenue

Phone 770 596 9697

Street

Palm Coast FL 32137

City

State

Zip

Email daveflagler@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Democratic Women's Club of FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/2019

Meeting Date

5PB 7064

Bill Number (if applicable)

Topic Fracking and matrix acidation

Amendment Barcode (if applicable)

Name Susan McLeod

Job Title Pharmacist

Address 801 Chestwood Ave
Street

Phone 850 264-4217

Tallahassee 32303
City State Zip

Email mcleodks801@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self + taxpayers + citizens of Florida

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic Fracking ban

Amendment Barcode (if applicable)

Name Ellen-Claire Newell

Job Title Student

Address 1744 Tarpon Dr.
Street

Phone 850-445-3839

Tallahassee FL 32308
City State Zip

Email newellec@icloud.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Physicians for Social Responsibility

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SB 7064
Bill Number (if applicable)

Meeting Date _____

Topic Fracking

Amendment Barcode (if applicable) _____

Name Nicolette Springer

Job Title Legislative Analyst

Address _____

Phone 407 484 3656

Street

Orlando

FL

32832

City

State

Zip

Email nicolette@LWVFL.org

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing League of Women Voters

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic Fracking definition

Amendment Barcode (if applicable)

Name Linda Oaksford

Job Title Retired educator

Address 2520 Harriman Circle

Phone _____

Street

Tallahassee, FL 32308

Email _____

City

State

Zip

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic FRACKING BAN

Amendment Barcode (if applicable)

Name EDWARD T. OAKSFORD

Job Title RETIRED

Address 2520 HARRIMAN CIR.
Street

Phone 850-556-8325

City

State

Zip

Email etoaksford@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing SELF

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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THE FLORIDA SENATE

APPEARANCE RECORD

3/11/2019

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SPB 7064

Bill Number (if applicable)

Topic Fracking Ban

Amendment Barcode (if applicable)

Name Jennifer RUBIELLO

Job Title Director

Address 3110 1st Ave N, Ste 2H

Street

St. Petersburg FL 33713

City

State

Zip

Phone 727 327 3138

Email jennifer@environmentflorida.org

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing ENVIRONMENT FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
(Meeting Date)

7064
Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name MSIA CALDER

Job Title —

Address 3140 RAVINE DR.
Street

Phone 850-228-5900

Tallahassee
City State Zip

Email metorleans@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name GlynDA Linton

Job Title Citizen

Address 4670 NW 5 ST

Phone 954-648-5571

Street

Plantation

City

FL

State

33317

Zip

Email glynDA.linton@federationmembers.org

Speaking: ☐ For ☒ Against ☐ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing self

Appearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

03/11/2019

Meeting Date

SB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Nucleus Shelton

Job Title _____

Address 7300 NW 7 st

Street

Phone (305) 215-7070

Sunrise

FL

33313

City

State

Zip

Email N

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/2019

Meeting Date

SB 7064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name TERRY JOE CHAPMANJob Title RETIREEAddress 77 BRIDLE GATE DRIVE

Street

Phone (850) 766-5507CRAWFORDVILLE FL 32327

City

State

Zip

Email houndsman56@yahoo.Speaking: ☐ For ☒ Against ☐ InformationWaive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)Representing MYSELFAppearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

March 11, 2019

Meeting Date

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Tunishia JordanJob Title Bus operatorAddress 12012 Bridge Point Ln

Street

Phone 813-812-0000Biverview

City

FL

State

33579

Zip

Email Jordant_ATV1593@gmailSpeaking: ☐ For ☒ Against ☐ InformationWaive Speaking: ☒ In Support ☐ Against
(The Chair will read this information into the record.)Representing SelfAppearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Antonio Livingston Jr

Job Title Bus Operator

Address 6807 W 48th St.
Street

Phone (813) 330-6620

Tampa FL 33610
City State Zip

Email LivingstonA.ATU1893@gmail.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☒ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3.11.19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name SB 7064 - Fracking

Job Title General Ed Educator

Address 830 Midland Ct

Phone 904-403-9707

Street

Orange Pk

FL

State

32065

Zip

Email _____

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

03/11/19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Heather Weaver

Job Title Teacher

Address 316 Aquarius Concourse

Street

OP
City

FL
State

32073
Zip

Phone 904-655-1573

Email heatherweaver490@
yahoo

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

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S-001 (10/14/14)

APPEARANCE RECORD

11-Mar-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

293088

Amendment Barcode (if applicable)

Topic Fracking Ban

Name Ken Hays

Job Title retired

Address 1935 Nanticoke Cir

Phone 850-980-7053

Tallahassee FL 32303

City State Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Concerned Floridians

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

7064

Bill Number (if applicable)

Topic _____

Amendment Barcode (if applicable)

Name JACK NORRIS

Job Title _____

Address _____

Phone _____

Street

Tallahassee

FL

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing RETHINK ENERGY FLORIDA

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-2019
Meeting Date

SB 7064
Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Keith Blake

Job Title Bus Operator

Address 3404 Sherry Dr
Street
Brandon, FL 33511
City State Zip

Phone 813-380-2882

Email blake.k.97415

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Brett Farrell

Job Title Electrician

Address 7018 SW 46th Avenue
Street

Phone 352-615-9986

Gainesville FL 32608
City State Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

11-Mar-19
Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064
Bill Number (if applicable)

Topic Fracking Ban

Amendment Barcode (if applicable)

Name Ken Hays

Job Title retired

Address 1935 Nanticoke Cir

Phone 850-980-7053

Street

Tallahassee
City

FL
State

32303
Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Concerned citizens

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/2019

Meeting Date

SB 7064

Bill Number (if applicable)

Topic

Fracking

Amendment Barcode (if applicable)

Name

Rich Templin, PH.D

Job Title

Politics & Public Policy Director

Address

135 S Monroe St

Phone

(850) 566-4348

Street

Tallahassee

FL

32301

City

State

Zip

Email

Speaking:

☐

For

☒

Against

☐

Information

Waive Speaking:

☐

In Support

☐

Against

(The Chair will read this information into the record.)

Representing

Florida

AFL - CIO

Appearing at request of Chair:

☐

Yes

☒

No

Lobbyist registered with Legislature:

☒

Yes

☒

No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

3-11-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Douglas Deters

Job Title Teacher / Clay County Florida

Address 61 Reeding Ridge Dr. West

Phone 904-536-1174

Street

Jax

City

FL

State

33335

Zip

Email coachdeters@gmail.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

03-11-19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic SB 7064 - Fracking

Amendment Barcode (if applicable)

Name Matthew Estever

Job Title Teacher

Address 7241 Bergamo Way #201

Street

Fort Myers

City

FL

State

33966

Zip

Phone (954) 632-3316

Email Matthew.Estever@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic Fracking SB 7064

Amendment Barcode (if applicable)

Name Shaye Sutherland

Job Title Teacher

Address 4550 Mystic Blue Way

Street

Phone 9526931354

Fort Myers

City

FL

State

33966

Zip

Email scsutherland12@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

Meeting Date

7064
Bill Number (if applicable)

Topic SB-7064 fracking

Amendment Barcode (if applicable)

Name Richard Quincoces

Job Title SB-7064 fracking

Address 11751 SW 182 Terr
Street

Phone 305-301-9421

Miami Florida 33177
City State Zip

Email RQUINCOCES@OUTSPEAK.ORG

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing MYSELF

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

7064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name SONATHAN Webber

Job Title Deputy Director

Address 1700 N. Monroe St. #11-286

Phone 954-593-4449

Street

Tallahassee

FL

32303

City

State

Zip

Email JWEBBER@FCVOTERS.ORG

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing Florida Conservation Voters

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

7064

Bill Number (if applicable)

Topic Oil & Gas

Amendment Barcode (if applicable)

Name DAVID MICA

Job Title DIRECTOR

Address 215 S. MONROE ST Ste 800

Street

Phone 561-6300

TALLAHASSEE

City

FL

State

32301

Zip

Email MICA.D@API.ORG

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing FLORIDA PETROLEUM COUNCIL

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7064
Bill Number (if applicable)

Topic Fracking bill

Amendment Barcode (if applicable)

Name Randie Denker

Job Title attorney

Address Denker Law Office, 552 E. Georgia St.
Street

Phone 850-893-6753

Tallahassee, FL 32303
City State Zip

Email randiedenker@gmail

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

3/11/19
Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064
Bill Number (if applicable)

Topic BAN FRACKING

Amendment Barcode (if applicable)

Name RICHARD CARL SILVESTRI

Job Title Retired Firefighter (CHIEF)

Address 5708 BUCHANAN DRIVE
Street

Phone (404) 3095765

FT. PIERCE FL 34982
City State Zip

Email RSILVEST@bellsouth.net

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing FLORIDIANS NEED FOR CLEAN WATER

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

2064

Bill Number (if applicable)

Topic Frac King

Amendment Barcode (if applicable)

Name Kim Ross

Job Title Ex Director

Address 603 N MLK Jr

Phone 850-788-2565

Street

Tallahassee

FL

32301

City

State

Zip

Email

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing BeThink Energy Florida

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Meeting Date _____

Bill Number (if applicable) _____

Topic Fracking

Amendment Barcode (if applicable) _____

Name Shon O. Owens

Job Title Mayor of Jas

Address 3578 Hwy

Phone 850-554-0701

Street

Jas

City

FL

State

32565

Zip

Email mayorowens@yahoo.com

Speaking: ☒ For ☐ Against ☐ Information

Waive Speaking: ☒ In Support ☐ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SPB 7864

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name HOWARD KESSLER

Job Title Retired Surgeon

Address 408 PLANTATION Rd

Street

TALLAHASSEE, FL

City

State

Zip

Phone 850-597-3856

Email HOWARD@howardkessler.com

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing PHYSICIANS FOR SOCIAL RESPONSIBILITY

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-9-11

Meeting Date

7064

Bill Number (if applicable)

Topic Ban Fracking

Amendment Barcode (if applicable)

Name Michelle Allen

Job Title Florida Organizer

Address 319 37th St S

Street

St Pete

FL

33711

City

State

Zip

Phone 727-217-5135

Email mallen@fwwatch.org

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Food & Water Watch

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11

Meeting Date

7064

Bill Number (if applicable)

Topic _____

Amendment Barcode (if applicable)

Name Mr. U. Miller

Job Title _____

Address 3034 O'Brien DrivePhone 850-766-6867

Street

TallahasseeFL32309

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ InformationWaive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ NoLobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

Topic Frack 7064 Fracking

Amendment Barcode (if applicable)

Name Sandra McClinton

Job Title Retired

Address 5028 Pelican Blvd

Street

Cape Coral, FL

City

State

33914

Zip

Phone 239-471-7704

Email sandra.mcclinton@comcast.net

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19
Meeting Date

SPB 7064
Bill Number (if applicable)

Topic Fracking in Florida

Amendment Barcode (if applicable)

Name Laura L. Novosad

Job Title Home owner / Realtor

Address 3230 Ft. Denaud Rd.
Street

Phone 239-298-1542

Ft. Denaud Fla. 33935
City State Zip

Email LRNOVOSAD@GMAIL.COM

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3-11-19

Meeting Date

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Ellen Baker

Job Title Teacher

Address 5673 Whirlaway Rd

Phone

Street

City

PBG

State

FL

Zip

33418

Email

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SPB 7064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name ANNE VAN METER

Job Title Retired

Address 408 PLANTATION Rd
Street

Phone 850 298 9641

TALLAHASSEE, FL 32303
City State Zip

Email VANMETERANNE@gmail.com

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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THE FLORIDA SENATE

APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19
Meeting Date

7064
Bill Number (if applicable)

Topic _____

Amendment Barcode (if applicable)

Name Leighanne Boone

Job Title ReThink Energy Action Fund

Address _____
Street

Phone _____

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

3-11-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Brian Lee

Job Title Legislative Director

Address 1203 ~~South~~ Buckingham Dr

Street

Tallahassee

City

FL

State

32308

Zip

Phone 850.766.7309

Email brian.lee@fla.senate.gov

Email

Speaking: ☐ For ☐ Against ☒ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Floridians Against Fracking

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

AFTER AMENDMENTS

3-11-19

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

7064

Bill Number (if applicable)

Topic FRACKING

Amendment Barcode (if applicable)

Name DAVID CULLEN

Job Title _____

Address 1674 UNIV. PKWY
Street

Phone 941.323.2434

SARASOTA FL 34243
City State Zip

Email cullen@

Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing SIERRA CLUB FLORIDA

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☒ Yes ☐ No

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S-001 (10/14/14)

THE FLORIDA SENATE
APPEARANCE RECORD

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

3/11/19

Meeting Date

SB 7064

Bill Number (if applicable)

Topic This Fracking Ban is FLAWED

Amendment Barcode (if applicable)

Name Lauren Corey

Job Title _____

Address 3129 Middlebrooks Cir

Phone _____

Street

TLH

FL

32312

City

State

Zip

Email _____

Speaking: ☐ For ☐ Against ☐ Information

Waive Speaking: ☐ In Support ☒ Against
(The Chair will read this information into the record.)

Representing _____

Appearing at request of Chair: ☐ Yes ☐ No

Lobbyist registered with Legislature: ☐ Yes ☐ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

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S-001 (10/14/14)

THE FLORIDA SENATE

APPEARANCE RECORD

13/11/2018

Meeting Date

(Deliver BOTH copies of this form to the Senator or Senate Professional Staff conducting the meeting)

SPB 7065

Bill Number (if applicable)

Topic Fracking

Amendment Barcode (if applicable)

Name Linda Miklowitz

Job Title Water-consuming citizen

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Speaking: ☐ For ☒ Against ☐ Information

Waive Speaking: ☐ In Support ☐ Against
(The Chair will read this information into the record.)

Representing Self

Appearing at request of Chair: ☐ Yes ☒ No

Lobbyist registered with Legislature: ☐ Yes ☒ No

While it is a Senate tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this meeting. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard.

This form is part of the public record for this meeting.

S-001 (10/14/14)

CourtSmart Tag Report

Room: SB 301
Caption: Senate Agriculture Committee

Case No.:
Judge:

Type:

Started: 3/11/2019 1:31:03 PM

Ends: 3/11/2019 3:10:33 PM

Length: 01:39:31

1:31:02 PM Meeting called to order by Chair Albritton
1:31:06 PM Roll call
1:31:16 PM Quorum present
1:32:26 PM Senator Diaz recognized to introduce SB 1128
1:34:15 PM Questions?
1:34:38 PM Senator Montford asks a question
1:35:00 PM Senator Diaz in response
1:35:28 PM Senator Rader asks a question
1:35:39 PM Senator Diaz in response
1:37:00 PM Senator Rader asks a question
1:38:05 PM Senator Diaz in response
1:38:11 PM Public testimony
1:38:28 PM Kate MacFall of the Humane Society of the United States waives in support
1:38:46 PM Amanda Gill of the Florida Apartment Association waives in support
1:38:55 PM Kelly Mallete of the Florida Apartment Association waives in support
1:39:11 PM Debate?
1:39:15 PM Senator Rader in debate
1:41:16 PM Senator Gainer in debate
1:41:39 PM Senator Diaz recognized to close
1:41:47 PM Senator Diaz to close on SB 1128
1:42:28 PM Roll call
1:42:40 PM SB 1128 reported favorably
1:43:09 PM Chair Albritton recognizes Jared Rosenstein of DEM to update on citrus
1:46:55 PM Chair Albritton in response
1:49:51 PM Senator Montford asks a question
1:51:07 PM Jared Rosenstein in response
1:51:33 PM Senator Montford with a follow up question
1:52:45 PM Chair Albritton in response
1:53:44 PM Jared Rosenstein in response
1:54:25 PM Chair Albritton in response
1:54:45 PM Senator Gainer asks a question
1:55:30 PM Jared Rosenstein in response
1:56:15 PM Senator Gainer asks a question
1:56:43 PM Jared Rosenstein in response
1:57:52 PM Senator Rader asks a question
1:58:24 PM Chair Albritton in response
2:00:03 PM Senator Broxson asks a question
2:01:33 PM Jared Rosenstein recognized to close
2:02:38 PM Chair Albritton comments on public testimony on SPB 7064
2:04:37 PM Chair Albritton comments in advance for vote at time certain at 3:10 PM on SPB 7064
2:05:43 PM Senator Rader asks a question
2:06:02 PM Chair Albritton encourages limited public testimony on SPB 7064
2:06:44 PM Senator Rader asks a question
2:06:50 PM Chair Albritton in response
2:07:11 PM Chair Albritton turns the gavel over to Vice Chair Gainer
2:07:26 PM Chair Gainer recognizes Senator Albritton to introduce SPB 7064
2:08:11 PM Questions?
2:08:24 PM Amendment 320578 introduced by Senator Broxson
2:09:08 PM Questions?
2:09:10 PM Public testimony
2:09:28 PM Dell Cates of ReThink Energy Florida waives in opposition
2:09:29 PM John Lorenz of ReThink Energy Florida waives in opposition

2:09:37 PM Ellen Newell of Physicians for Social Responsibility waives in opposition
2:09:52 PM Susan McLeod waives in opposition
2:09:59 PM Edward Oaksford waives in opposition
2:10:11 PM Linda Oaksford waives in opposition
2:10:23 PM Meta Calder waives in opposition
2:10:50 PM Chris Colson of Rowe Drilling Company speaks on amendment 320578
2:12:14 PM Questions?
2:12:20 PM Senator Montford asks a question
2:13:15 PM Chris Colson in response
2:13:56 PM Senator Broxson asks a question
2:14:32 PM Chris Colson in response
2:14:59 PM Senator Broxson asks a question
2:15:16 PM Chris Colson in response
2:15:32 PM Randy Conrad of GFA International speaks on amendment 320578
2:17:18 PM Senator Broxson asks a question
2:17:32 PM Randy Conrad in response
2:17:41 PM Senator Broxson asks a question
2:17:57 PM Randy Conrad in response
2:18:18 PM Senator Broxson asks a question
2:18:31 PM Randy Conrad in response
2:18:40 PM Senator Broxson asks a question
2:18:51 PM Randy Conrad in response
2:18:56 PM Questions?
2:19:07 PM Senator Albritton makes a motion to vote at time certain at 3:10 PM on SPB 7064
2:19:30 PM Thomas Herbert of FLIPPA waives in opposition
2:20:04 PM Alexandra Pividal of ReThink Energy Florida waives in opposition
2:20:08 PM Ken Hays of Concerned Floridians waives in opposition
2:20:17 PM Jack Norris of ReThink Energy Florida waives in opposition
2:20:21 PM Michelle Allen of Food & Water Watch speaks on 320578
2:21:37 PM Senator Broxson asks a question
2:21:43 PM Michelle Allen in response
2:22:09 PM Mr. Miller waives in opposition
2:22:17 PM Leighanne Boone of ReThink Energy Action Fund waives in opposition
2:22:23 PM Joanna Bonfanti of Florida Section American Water Works Association waives in opposition
2:22:45 PM Brian Lee of Floridians Against Fracking speaks on amendment 320578
2:23:26 PM Kim Ross of ReThink Energy Florida waives in opposition
2:23:43 PM David Cullen of Sierra Club Florida speaks on amendment 320578
2:25:43 PM Senator Broxson asks a question
2:26:08 PM David Cullen in response
2:27:18 PM Senator Broxson asks a question
2:27:29 PM David Cullen in response
2:28:11 PM Senator Broxson asks a question
2:28:21 PM David Cullen in response
2:28:34 PM Senator Broxson asks a question
2:28:57 PM David Mica of Florida Petroleum Council speaks on amendment 320578
2:32:13 PM Senator Montford asks a question
2:33:26 PM David Mica in response
2:33:45 PM Debate?
2:33:52 PM Senator Broxson in debate
2:34:29 PM Senator Broxson withdraws amendment 320578
2:34:48 PM Senator Albritton recognized to introduce amendment 293088
2:37:14 PM Questions?
2:37:23 PM Senator Rader asks a question
2:38:09 PM Senator Albritton in response
2:38:46 PM Senator Rader asks a question
2:38:56 PM Senator Albritton in response
2:39:27 PM Public testimony
2:39:39 PM Dell Cates of ReThink Energy Florida waives in opposition
2:39:55 PM John Lorenz of ReThink Energy Florida waives in opposition
2:39:59 PM Ellen Newell of Physicians for Social Responsibility waives in opposition
2:40:09 PM Susan McLeod waives in opposition
2:40:16 PM Edward Oaksford waives in opposition

2:40:28 PM Meta Calder waives in opposition
2:40:31 PM Linda Oaksford waives in opposition
2:40:43 PM Amy Datz of Environmental Caucus of Florida
2:42:40 PM Speaks on amendment 293088
2:42:41 PM Jack Norris of ReThink Energy Florida waives in opposition
2:42:49 PM Jennifer Wright waives in opposition
2:43:04 PM Alexandra Pividal of ReThink Energy Florida waives in opposition
2:43:10 PM David Mica of Florida Petroleum Council speaks on amendment 293088
2:44:57 PM Michelle Allen of Food & Water Watch waives in opposition
2:45:01 PM Brian Lee of Floridians Against Fracking
2:45:09 PM Speaks on amendment 293088
2:46:04 PM David Cullen of Sierra Club Florida speaks on amendment 293088
2:46:53 PM Debate?
2:47:54 PM Senator Albritton waives close
2:48:04 PM Roll call on amendment
2:48:38 PM Amendment 293088 is adopted
2:48:50 PM Late filed amendment 926982
2:49:15 PM Objections to hear late-filed amendment? None. Amendment filed.
2:49:27 PM Senator Albritton recognized to introduce amendment 926982
2:50:06 PM Senator Montford asks a question
2:50:14 PM Senator Albritton in response
2:50:21 PM Senator Montford asks a question
2:51:12 PM Senator Albritton in response
2:51:21 PM Public testimony
2:51:26 PM David Mica of Florida Petroleum Council speaks on amendment 926982
2:53:07 PM David Cullen of Sierra Club Florida speaks on amendment 926982
2:54:39 PM Debate?
2:54:47 PM Senator Gainer in debate
2:55:31 PM Chair Albritton waives close
2:55:43 PM Amendment 926982 is adopted
2:55:57 PM Back on the bill
2:56:35 PM Jennifer Rubella of Environment Florida waives in opposition
2:56:44 PM Mr. Miller of ReThink Energy Florida waives in opposition
2:57:01 PM Shon Owens Mayor of Jay speaks on SPB 7064
3:01:10 PM 3:10 PM vote certain reminder
3:01:45 PM Senator Gainer wants all public testimony entered in record
3:02:05 PM Senator Montford asks for testimony extension
3:02:17 PM Senator Albritton states 3:10 PM as time certain vote- no extension
3:02:52 PM Senator Rader in debate
3:06:11 PM Senator Broxson in debate
3:07:21 PM Senator Montford in debate
3:08:42 PM Senator Albritton waives close
3:08:48 PM Roll call
3:09:27 PM SPB 7064 reported favorably
3:10:07 PM SPB 7064 will be submitted as a committee bill
3:10:11 PM Senator Montford moves to adjourn
3:10:22 PM Meeting adjourned