# California's Regulatory Framework Under Senate Bill 4

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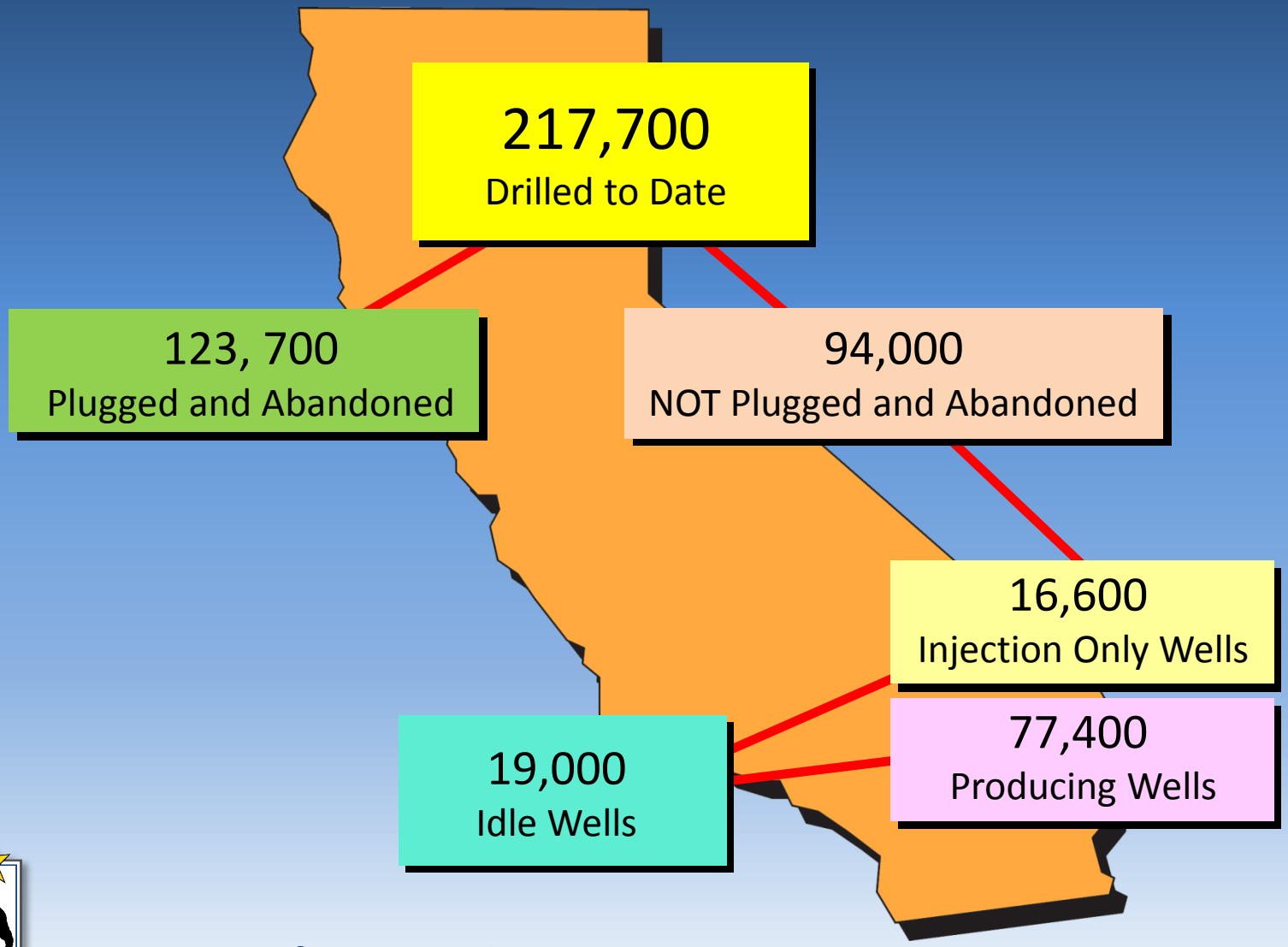
Department of Conservation

# Oil & Gas Wells in California

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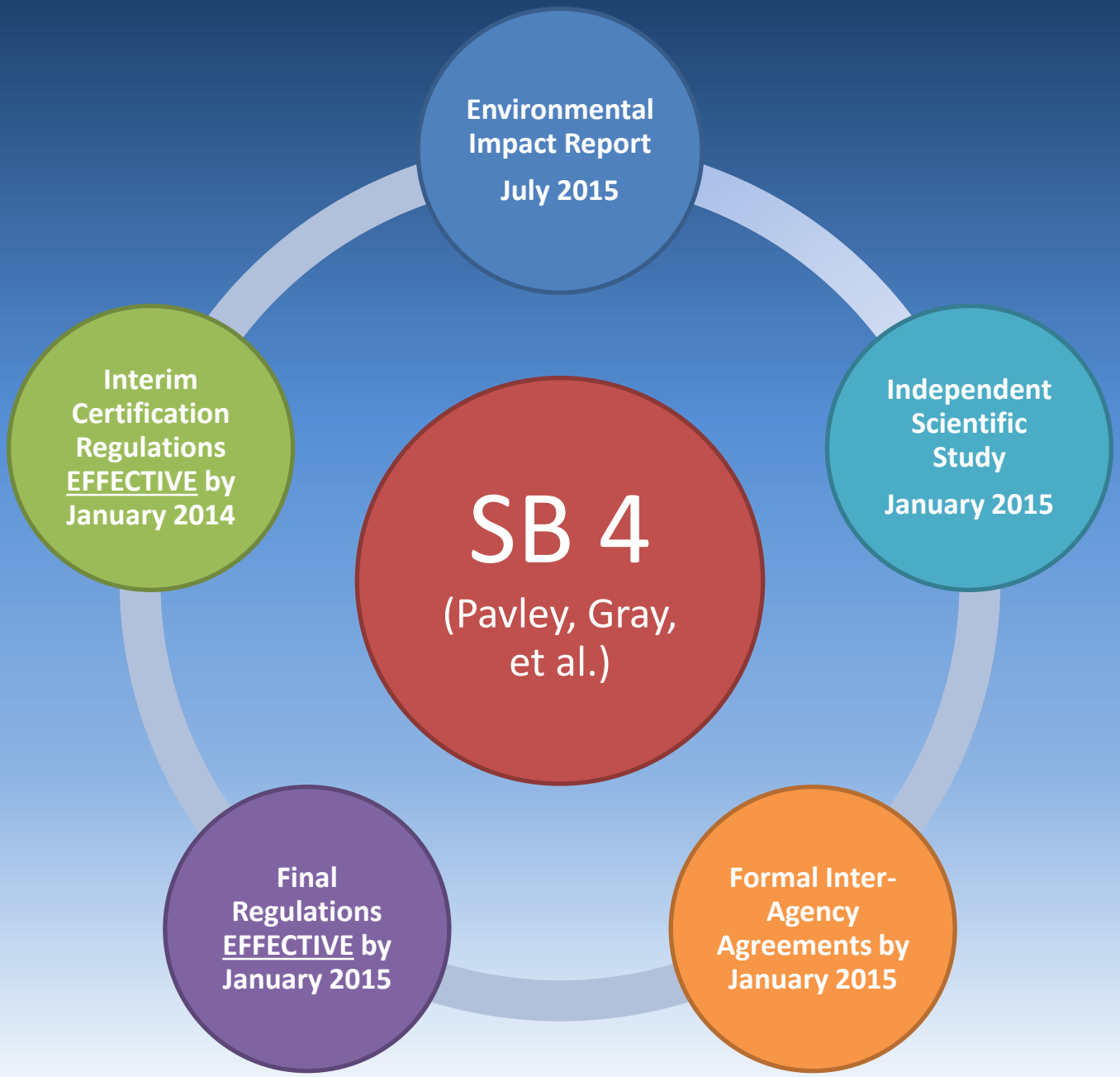
# Well Stimulation Definition per SB 4:

*"…any treatment of a well designed to enhance oil and gas production or recovery by increasing the permeability of the formation."*

- Expressly **includes** hydraulic fracturing treatments and acid well stimulation treatments.

- Expressly **excludes** steam flooding, water flooding, cyclic steaming, routine well cleanout work, routine well maintenance, routine removal of formation damage due to drilling, bottom hole pressure surveys, or routine activities that do not affect the integrity of the well or the formation.


SB 4
(Pavley, Gray, et al.)
Environmental Impact Report
July 2015
Independent Scientific Study
January 2015
Formal Inter-Agency Agreements by January 2015
Final Regulations EFFECTIVE by January 2015
Interim Certification Regulations EFFECTIVE by January 2014

# Basics of SB4

**Regulations will include:**

- **Hydraulic Fracturing and other stimulation processes that are used to enhance recovery of the resource by increasing the permeability of the formation.**
- **Public disclosure prior to the stimulation process and options for water testing before and after the operation.**
- **Public disclosure of the fluids used in the stimulation process.**

# Basics of SB4

**Regulations will also include:**

- **Procedures for handling and disposal of fluids.**
- **Procedures for groundwater monitoring.**
- **Requirements for specific information and testing to be completed to obtain a permit to perform stimulation treatments.**

# STALKING THE WILD MONTEREY SHALE

# Monterey Shale

Source: http://earthjustice.org

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# Monterey Shale

Source: http://ww4.hdnux.com

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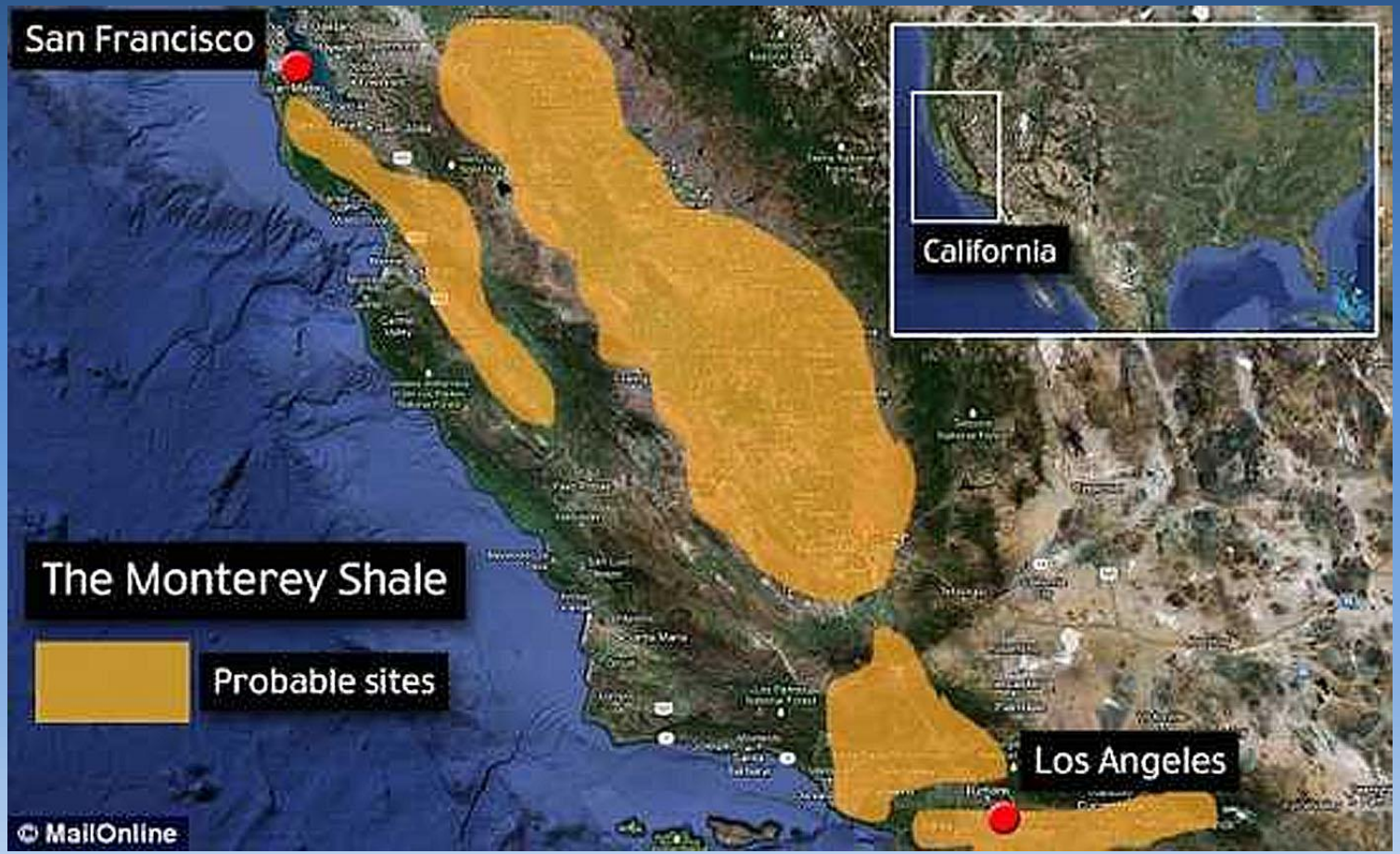
# Monterey Shale




Source: http://energyinnovation.org

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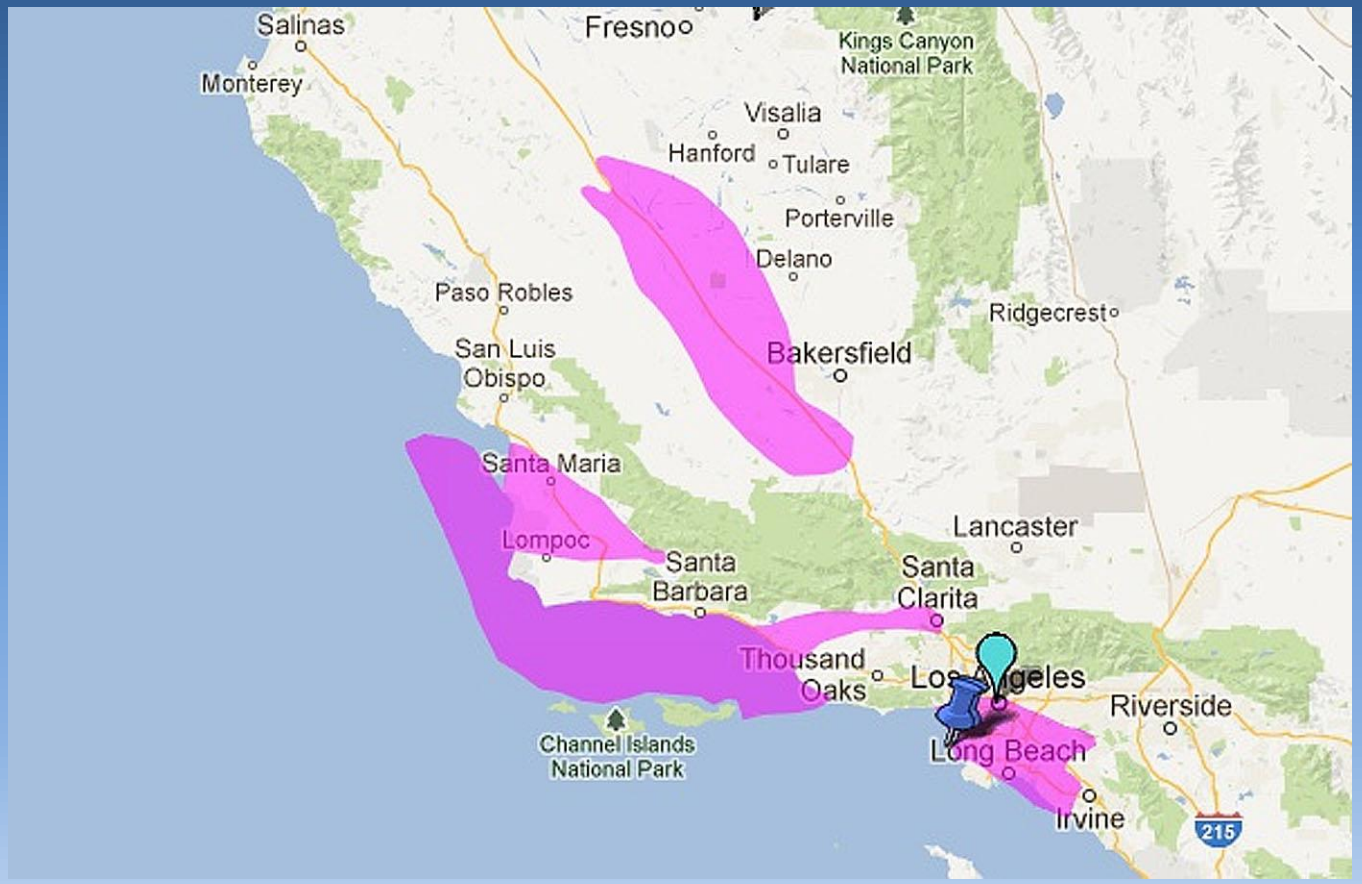
# Monterey Shale




Source: http://www.indybay.org

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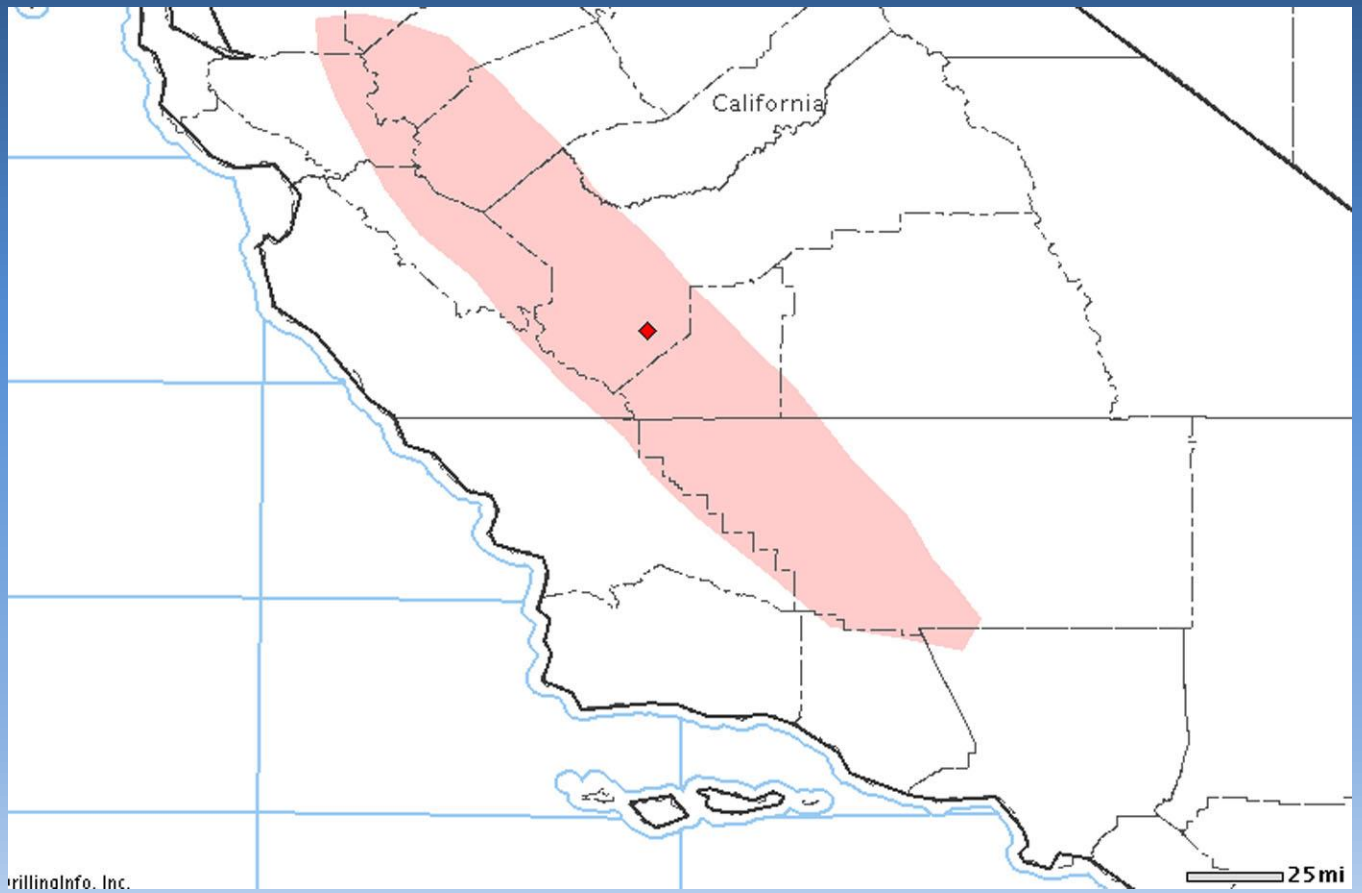
# Monterey Shale




Source: http://info.drillinginfo.com

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Questions?
Comments?
Applause?
Protests?

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www.conservation.ca.gov