Chevron El Segundo: On October

disruption at one of its operating

units resulting in emergency flaring

12, the refinery experienced a power

INSIDE

Gasoline Retail Prices by Brand Diesel Retail Prices by Region Oil Spill Map

Offshore California

Federal OCS Platforms Located Pacific Coast Federal Offshore Production State Platforms Located **Offshore California**

Featured Topic:

State Offshore and **Onshore Production**

California Offshore Crude Oil Production and Spills

California Offshore Platform Map

CALIFORNIA GASOLINE RETAIL PRICES BY BRAND

(Cal OES, South Coast AQMD).

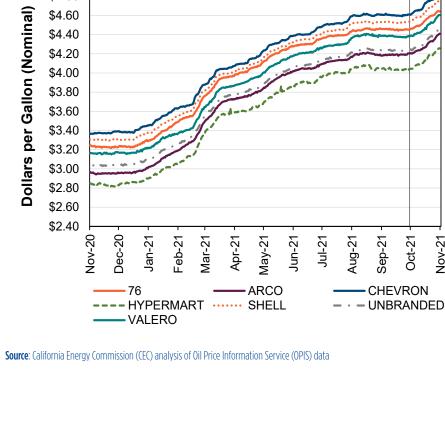
Chevron Richmond: On October 24, a rainstorm caused a power disruption at the refinery and shut down several processing units leading to emergency flaring (Cal OES, KQED).

October 2021 vs. 2020 \$5.00 \$4.80



Shell \$4.64 \$4.33 Unbranded \$4.48 Valero

October 2021 vs. 2020



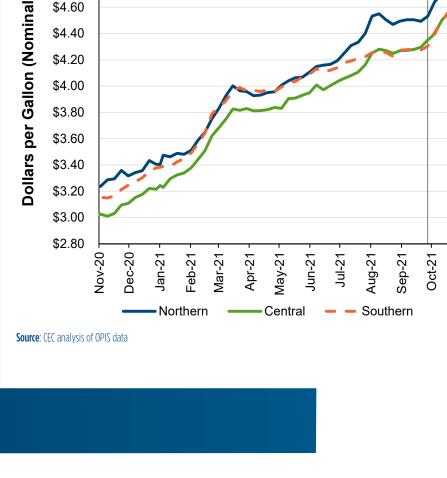
CALIFORNIA DIESEL RETAIL PRICES BY REGION

\$4.80 (Percentage Change) \$4.60 Northern CA 44% higher \$4.40

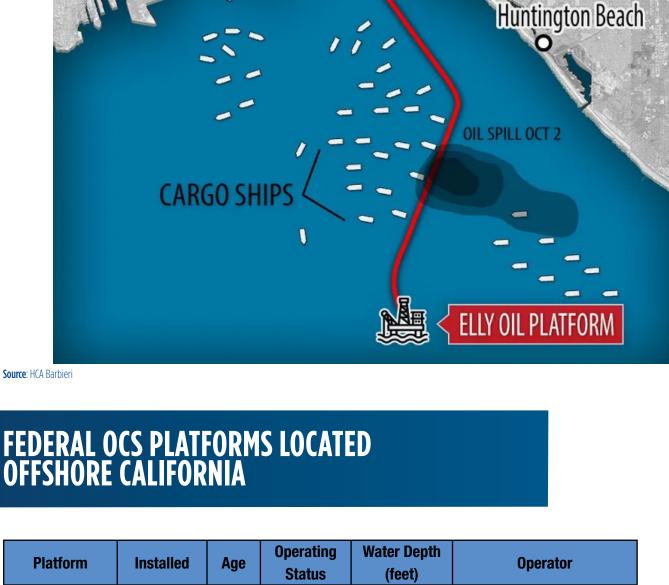
\$5.00







OIL SPILL MAP



San Pedro Bay - Los Angeles and Orange County

700

255

Beta Operating Company

Beta Operating Company

Long Beach

1984 **Producing** Eureka 37 **Processing** Elly* 1980 41

Ellen	1980	41	Producing	265	Beta Operating Company
Edith	1983	38	Producing	161	DCOR
Eastern Santa Barbara Channel - Ventura and Santa Barbara County					
Hogan	1967	54	Producing	154	Beacon West Energy Group
Houchin	1968	53	Producing	163	Beacon West Energy Group
Α	1968	53	Producing	188	DCOR
В	1968	53	Producing	190	DCOR
С	1977	44	Producing	192	DCOR
Henry	1979	42	Producing	173	DCOR
Hillhouse	1969	52	Producing	190	DCOR
Gina	1980	41	Producing	95	DCOR
Gilda	1981	40	Producing	205	DCOR
Habitat	1981	40	Retiring	290	DCOR
Gail	1987	34	Retiring	739	Beacon West Energy Group
Grace	1979	42	Retiring	318	Beacon West Energy Group
Western Santa Barbara Channel - Santa Barbara County					
Hondo	1976	45	Paused	842	ExxonMobil Corporation
Harmony	1989	32	Paused	1,198	ExxonMobil Corporation
Heritage	1989	32	Paused	1,075	ExxonMobil Corporation
Santa Maria Basin - Santa Barbara County					
Harvest	1985	36	Retiring	675	Freeport-McMoRan Oil & Gas
Hermosa	1985	36	Retiring	603	Freeport-McMoRan Oil & Gas
Hidalgo	1986	35	Retiring	430	Freeport-McMoRan Oil & Gas
Irene	1985	36	Producing	242	Freeport-McMoRan Oil & Gas
Source : Bureau of Ocean Energy Management, California State Lands Commission, ExxonMobil Notes: *Elly does not have its own wells and separates the water, natural gas, and crude oil that is received from Ellen and Eureka.					
PACIFIC COAST FEDERAL OFFSHORE PRODUCTION					
2					

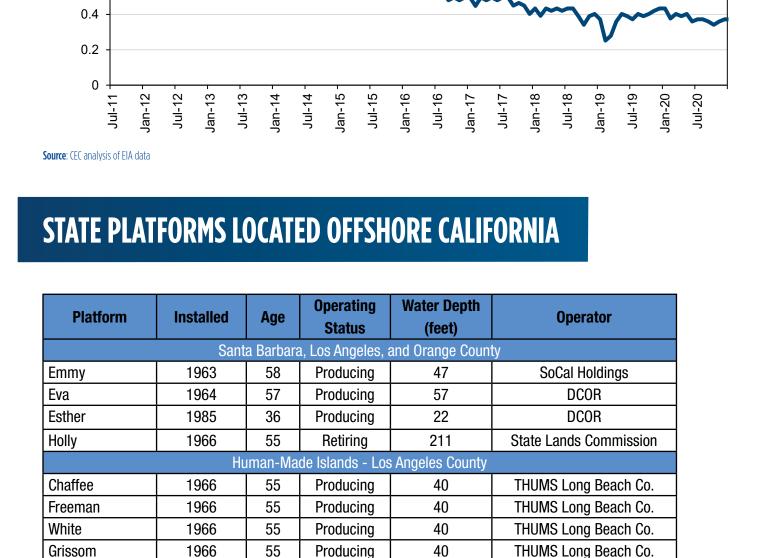
1.4

1.8

1.6

0.6





Retiring

63

STATE OFFSHORE AND ONSHORE PRODUCTION

44

State Lands Commission

roduction (Million Barrels) 100 50 -

Source: California Geologic Energy Management Division (CalGEM)

1958

Source: California State Lands Commission, California Resources Corporation

Rincon

200

150

0



Sea level

Sea floor

The well was not capped until 10

days following the blowout and oil

continued to leak until December

1969. An estimated 4.2 million gallons

of oil spilled, ruining miles of coastline

and significantly impacting marine

life. This was the largest oil spill in

and is credited with spurring the

modern environmental movement.

nautical miles off the Pacific coast.

This region is under United States

the powers to regulate offshore

federal government jurisdiction with

drilling. The region has 23 active crude

oil and gas producing platforms, all

off the coast of Southern California.

crude oil and gas. Platform Elly, one

of the 23 platforms in federal waters,

Of the 23 platforms, 20 produce

has no wells because it serves

the United States waters at that time,

Source: CalGEM

Wells 🚃

Oil & gas reservoir

Offshore

Onshore

Offshore Platform

Rig

Deck

Jacket

Piling inside jacket leg

active platforms in state waters. Since

no new leases have been issued

number of active offshore oil and

since 1969, California has seen the

gas platforms decline from 60 to 9.

There are four offshore oil platforms

in state waters. Holly in Santa Barbara

County, Eva and Emmy in Huntington

Beach, and Esther off Seal Beach.

There are also four large human-

Island, located off Rincon Beach in

Ventura County. Rincon and Holly

are no longer actively producing.

Holly is in the process of having

its wells plugged and abandoned,

while Rincon has completed plug

and abandonment and is awaiting

final retirement determinations

and California Environmental

Quality Act (CEQA) analysis.

OFFSHORE CRUDE OIL PRODUCTION **AND SPILLS** On October 1, 2021, a broken pipeline

connected to an offshore oil platform

named Elly caused an oil spill three miles off the coast of Newport Beach. The spill resulted in multiple beach

closures and a coordinated cleanup effort involving multiple agencies.

Collectively, this response team is

of the United States Coast Guard

referred to as the Unified Command.

which is composed of representatives

(USCG), California Department of Fish

and Wildlife's Office of Spill Prevention

and Response (CDFW-OSPR), Amplify Energy, County of Orange, and County

of San Diego. The cities of Long Beach,

Beach support the Unified Command

Newport Beach, and Huntington

to help improve the response

time of the cleanup operation.

TIMELINE OF EVENTS

October 1, 2021: The National Response Center (NRC) received an initial report of an oil sheen from an unknown source on Friday evening. October 2: Amplify Energy confirmed "a release of oil from the pipeline" and

shut down the pipeline that morning.

The Coast Guard then issued a press

release announcing the formation of

Unified Command to respond to the

oil spill that was initially believed to

gallons (3,000 barrels) of crude oil.

October 3: The maximum potential

oil spilled was increased to 144,000

be 13 miles in size and up to 126,000

gallons. California Department of Fish and Wildlife declared fishery closures and public health threat in that area. October 4: Divers confirmed a 4,000foot section of 17.7 mile-long pipeline was displaced about 105 feet and had a 13-inch split along the side that was likely the source of the leak. October 5: Cleanup efforts continued, and the estimated spill size increased to 15.67 miles. October 7: Preliminary findings estimated 24,696 gallons as the minimum amount of oil released from the pipeline. The cause of the

October 18: Investigators believed that back in January a cargo ship dragging its anchor during a storm caught the underwater oil pipeline and dragged it across the seafloor. The investigation is still ongoing.

spills recorded in this area. The 2015 Refugio Oil Spill took place in Santa Barbara County and deposited over 100,000 gallons of crude oil onto the coastline. The spill occurred onshore when oil from a leaking pipeline flowed from a storm drain into the ocean, requiring production to be paused at the Hondo,

shoreline cleanup operations. October 14: Coast Guard announced the estimated spill amount was downgraded to 25,000 gallons (588 barrels). COMPARISON TO OTHER OIL SPILLS This is not the first oil spill to occur in this area; there have been two other large production-related

spill remained under investigation. October 8: Operations continued with more than 1,300 personnel conducting on-water and

Harmony, and Heritage platforms. January 28, 1969, and was exponentially larger than both oil

The Santa Barbara Oil Spill occurred spills. The 1969 spill occurred at an oil well located 5.5 miles southeast of Santa Barbara, underneath Platform A, when a blowout occurred while drill bits were being changed. Karen Douglas, J.D. **Gavin Newsom**

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Siva Gunda

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Chair

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Offshore California shows the currently

J. Andrew McAllister, Ph.D.

Patty Monahan

Commissioners

Drew Bohan

Executive Director

California refineries. The most notable production drop was after the Refugio Oil Spill in May 2015. In a two-month span, offshore crude oil production went from 1.4 million barrels a

Offshore oil production peaked at 1.7

million barrels a month in July 2011.

has not been more than 400 thousand

barrels a month, which equates to one

percent of all crude oil processed in

Since then, offshore oil production

month to 590 thousand barrels a month. The Refugio Oil Spill affected production in federal waters, where six of the seven offshore platforms using that pipeline are located. STATE OFFSHORE PLATFORMS Since the 1969 Santa Barbara Oil Spill that released over four million gallons of crude oil into the ocean, California has been concerned about future potential spills. The concern led the California State Lands Commission (SLC) to put a moratorium on new oil and gas leases within California state waters from the shoreline to three nautical miles out, the extent of its jurisdiction. State Platforms Located

made islands, used for offshore oil FEDERAL OFFSHORE PLATFORMS production, in the in the Long Beach Harbor, known as the Long Beach The Pacific Outer Continental Shelf Unit, and one small island, Rincon (OCS) is a region of water three

State Offshore and Onshore Production as a processing facility for other shows the production of offshore neighboring oil platforms, Ellen and platforms in state waters compared Eureka. Elly is connected to shore via to onshore oil fields. Over the past 10 a 17.7-mile-long pipeline where the years, offshore production has been oil is delivered to a local refinery. With steady, but is a small fraction of the this pipeline now shutdown, Ellen and state's total production, averaging 6 Eureka will need to lower production percent of total California production until the pipeline is repaired. There are five companies operating these platforms. Beta Operating Company, LLC and ExxonMobil operate three platforms each. Beacon West Energy Group, LLC and Freeport-McMoran Oil & Gas each operate four platforms, and DCOR, LLC operates the remaining nine platforms. More information on these platforms can be found at Federal OCS Platforms Located Offshore California. The total production of offshore platforms in federal waters is shown on Pacific Coast Federal Offshore Production. Over the past 10 years crude oil production has declined. gas wells that you can drill from, but

over the time period. California Offshore Platform Map shows the remaining active oil and gas platforms in both federal and state waters. ABOUT OFFSHORE ASSETS Offshore oil platforms require stateof-the-art engineering to operate in harsh marine environments. There are many different types of oil platforms depending on the depth to the ocean floor, but platforms in California's waters are all fixed platforms. Fixed oil and gas platforms are built into the sea floor and are immobile. Normally, this would limit the amount of oil and

> multiple layers for increased safety to survive the harsh conditions of the ocean floor. The outside layer of an offshore pipeline is the toughest, with thick concrete coating a large stainless-steel pipe. Inside the outer layer, additional smaller stainless-steel

because of horizontal drilling, the

radius in which these platforms can

a typical fixed oil platform is shown

in Offshore Platform Diagram.

After the wells are drilled, the oil

and gas are pumped from the wells

through the pipelines to the shore.

Offshore pipelines are built with

drill from has increased. A diagram of

part that touches crude oil, transfers the crude oil from the platforms onto land to collection tanks and refineries. Given the recent oil spill off California's coastline, state agencies continue to look for ways to ensure safety and environmental protection. Read

pipes sandwich anti-corrosive material

for multiple layers of protection. The

center pipe, the last layer and only

ENERGY

in

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more at the CDFW-OSPR website. Visit our website for more information about California's Petroleum Market.

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