



richmond refinery newsletter june 2018

richmond today

human energy®



keeping richmond and the bay area moving forward



By Claudia Graham

On a daily basis, our dedicated team of operators, engineers, scientists and other professionals works to produce the transportation fuels and other products that directly fuel progress not only here at home but around the world.

From producing clean, California-grade gasoline to jet fuel, diesel and lubricating oils, the Richmond Refinery plays a critical role in keeping people in our region and throughout California on the move every day.

The products we make touch our lives in many different ways. They get us to where we live, work and play. These products fuel innovations in technology, health care and agriculture, propelling the high quality of life we all enjoy.

Equally as important as the products we provide is how we make them. We hold ourselves to the highest standard possible and deliver results safely and reliably. In this month's newsletter, we take a look at one product stream, propane, and how it's used in everything from barbecues, to light manufacturing, agriculture, heating, transportation and much more.

Claudia Graham is the Blending & Shipping Business Unit Manager at the Richmond Refinery

richmond y el área de la bahía siguen a la vanguardia

Por Claudia Graham

Nuestro dedicado equipo de operadores, ingenieros, científicos y otros profesionales, trabajan todos los días para producir combustibles de transporte y otros productos que impulsan el avance de este lugar y de todo el mundo.

Desde producir gasolina limpia, de grado California, hasta combustible para aviones, diésel y aceites lubricantes, la Refinería de Richmond desempeña una función muy importante para mantener en movimiento a la gente de esta región y de todo California, todos los días.

Los productos que elaboramos llegan a nuestras vidas de muchas formas diferentes. Nos llevan a donde vivimos, trabajamos y jugamos. También ayudan a energizar innovaciones en tecnología, cuidado de la salud y agricultura, e impulsan la alta calidad de vida que todos disfrutamos.

De igual importancia no solo es lo que hacemos, sino cómo lo hacemos. Nos comprometemos a mantener las normas más elevadas posibles y logramos resultados de manera segura y confiable. En el boletín informativo de este mes analizaremos un producto: el propano, y cómo se usa en todo, desde parrilladas, hasta manufactura de iluminación, agricultura, calefacción, transporte y mucho más.

Claudia Graham es gerente de la unidad comercial de Mezcla y Envío de la Refinería de Richmond

what we do

Founded in 1902 and operating on 2,900 acres, the Richmond Refinery processes about 250,000 barrels of oil each day into energy products that not only help keep California, the country, and the world on the move, but also enable human progress by improving lives in the community we share. Read on to learn more about one of the products we make here in Richmond: propane.

david htut

operator, richmond refinery

"I work as an operator on the crude unit, the first step in the refining process. The incoming crude oil is separated based on the size of the molecules, and then we make different products with the distilled crude, such as propane, gasoline, jet and diesel fuel, and lubricants. Our crude unit is one of the largest on the West Coast. Operators have a lot of responsibility - we keep the Refinery running 24/7 and I'm proud to be part of this team."



the science behind our products



separation: Crude oil is separated into different parts based on the size of the molecules.



treatment: Using hydrogen and catalyst, natural impurities are removed from crude oil to meet California's emissions standards, the toughest in the nation.



cracking: Large molecules of oil are broken into the small constituent elements that make up different transportation fuels.



step 1: product supply

Unlike other refineries, 100% of our crude oil arrives at our long wharf by ship. We do not receive crude oil by rail or pipeline. Team members like Cindy Wu, who is featured in the Q&A, help plan what we do with the crude oil after it arrives.



step 2: refining process

Refining crude oil into transportation products is a complex process involving many steps. Check out the graphic above and read what one of our Crude Unit Operators has to say about how we turn those molecules into the products you use.



step 3: product delivery

Products manufactured at the Richmond Refinery are marketed throughout Northern California and the West Coast at service stations, retail outlets and directly through independent distributors like Allied Propane Services, featured below.

For everyday families, using propane to fire up the backyard grill is the most common use of this vital fuel. But did you know propane is a clean energy source that has many other uses?



residential

Propane can be used as an energy source to provide heat and hot water and power appliances like stoves, cooktops and clothes dryers.

safety tip
Don't forget to turn off the propane tanks when you are finished using them.

a range of products

In addition to propane, the products made at the Richmond Refinery propel everything from planes, to high-tech manufacturing and automobiles, to the regional economy.



65% airplanes using our jet fuel at Northern California airports



100% lubricating base oils produced on the West Coast are made by us



20% cars on Northern California roads run on our gasoline



stan teaderman

jobber and distributor, allied propane services

We are a wholesale distributor of propane that has served customers across Northern California since 1968. As the only Chevron branded marketer under the Pro-Gas brand, we supply propane to help customers meet their energy needs including residential (home heating), commercial (forklift cylinder exchange), agriculture (frost protection, sustainable weed control, crop drying) and construction (temporary boilers, generators, heat and lighting).



agriculture

From Wine Country to the Central Valley, California farmers use propane for everything from irrigation systems to sustainable, organic weed control products.

did you know?
Propane irrigation engines help California farmers meet environmental regulations.

Q & A

a conversation with



Cindy Wu, Supply Scheduler with Oils Planning

Q **What do you do at the Refinery?**

I am a Supply Scheduler with the Oils Planning Group. Our team looks at the business across the whole supply chain and makes the best decisions for the enterprise. My job is to ensure that all of the feedstocks (raw materials) entering the refinery are within unit specifications. We are careful to always operate within safe and reliable operating limits.

Q **What is unique about the Richmond Refinery as it relates to your job?**

One way that refineries are differentiated is by their complexity, which determines what kinds of feedstocks they can bring in. Richmond is a complex refinery and therefore can take various types of oil that require further processing to be converted into the valuable products we all use every day.

Q **Tell us more about feedstocks.**

In Richmond, we take more intermediate feedstocks to meet the demand of our Richmond Lube Oil Plant (RLOP). Chevron is the world's leading producer of premium base oils, which are used to manufacture lubricant products like motor oil. Our refinery produces 100% of the lubricating base oils on the West Coast. When RLOP is operating at full capacity, we need to buy additional feedstock to send to the other processing units in the Refinery to keep things running smoothly.

Q **What does an average day look like for you?**

Each day I make plans for which incoming feedstocks (crude oil, gas oils and other intermediate feedstocks) go to which processing units. I also monitor a variety of factors that can change our schedule – things like weather, plant maintenance and other factors can all affect our plans. I also work with other Chevron business units in other locations to understand how the Richmond Refinery fits into the bigger picture of the company's operations. I work with different kinds of traders, as well as Value Chain Optimization teams, to understand how we can integrate with the El Segundo Refinery in Southern California.

Q **What's the biggest challenge in your role?**

The Refinery is never static, it's ever changing, and my job is to plan for and keep up with the changes.

Q **What do you love about your job?**

It's like solving a big puzzle.

Q **What is one misconception about Chevron that you would like to correct?**

People sometimes only see Chevron as a big corporate organization. But Chevron is more than that: it is more than the tanks and equipment you see when you drive by our Richmond facility. People run the Refinery – and our people work with integrity. I have many friends here in Richmond and I want them to know that the people at the Refinery work to produce the important products we use every day while also protecting our community's safety and the environment.



Chevron Richmond
841 Chevron Way
Richmond, CA 94801



Presorted Standard
U.S. Postage
PAID
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for more information

Email richmondrefineryinfo@chevron.com
or call 510-242-2000. For noise and odor
complaints, please contact 510-242-2127.

para más información

Email a richmondrefineryinfo@chevron.com
o llamando al número 510-242-2000. Para
quejas relacionadas con ruidos y olores, por
favor llame al número 510-242-2127.

community corner

cj's barbecue & fish

By Charles Evans

Getting into the restaurant business was a family decision. My dad always wanted to have a restaurant. After he passed in 1993, I opened CJ's and my mom helped do the cooking. She's still at it today. We cook for everyone in Richmond: the schools, churches, police department and companies like Chevron. I love having my business in Richmond. We're one of the few original barbeque restaurants in the Bay Area. We're country boys - my parents came to the Bay Area from Arkansas during World War II, but I was born and raised with my 10 brothers and sisters here in Richmond. I like the people. Everyone here is family or a friend, or friend of a friend. We've been successful, and I think it's important to give back. I cater all the Richmond festivals, and I help host National Night Out. I want the community to know that they are always welcome at CJ's. Come by for a good meal for your money. We stand by our slogan, *you tried the rest now come try the best.*

Charles Evans is the owner of CJ's Barbecue & Fish which is located at 2401 Macdonald Avenue in Richmond



cj's barbecue & fish

Por Charles Evans

Empezar el negocio de restaurante fue una decisión familiar. Mi papá siempre quiso tener un restaurante y después de su fallecimiento en 1993, abrí CJ's y mi mamá me ayudó a cocinar. Todavía trabaja en lo mismo. Hacemos comida para todos en Richmond: escuelas, iglesias, departamento de policía y empresas como Chevron. Me encanta mi negocio en Richmond. Somos unos de los pocos restaurantes originales de barbeque en el Área de la Bahía. Somos gente de campo. Mis padres se mudaron de Arkansas al Área de la Bahía durante la Segunda Guerra Mundial, pero mis diez hermanos y yo nacimos y crecimos en Richmond. Me encanta la gente. Aquí todos somos familia, o amigo, del amigo del amigo. Nos ha ido muy bien y creo que es importante colaborar con la comunidad. Sirvo comida en todos los festivales de Richmond y ayudo a organizar la Noche de salida nacional. Quiero que la comunidad sepa que siempre son bienvenidos en CJ's. Vengan y disfruten de una buena comida al mejor precio. Nos apegamos a nuestro lema, ya has probado el resto, ahora prueba lo mejor.

Charles Evans es el propietario de CJ's Barbecue & Fish, ubicado en 2401 Macdonald Avenue en Richmond