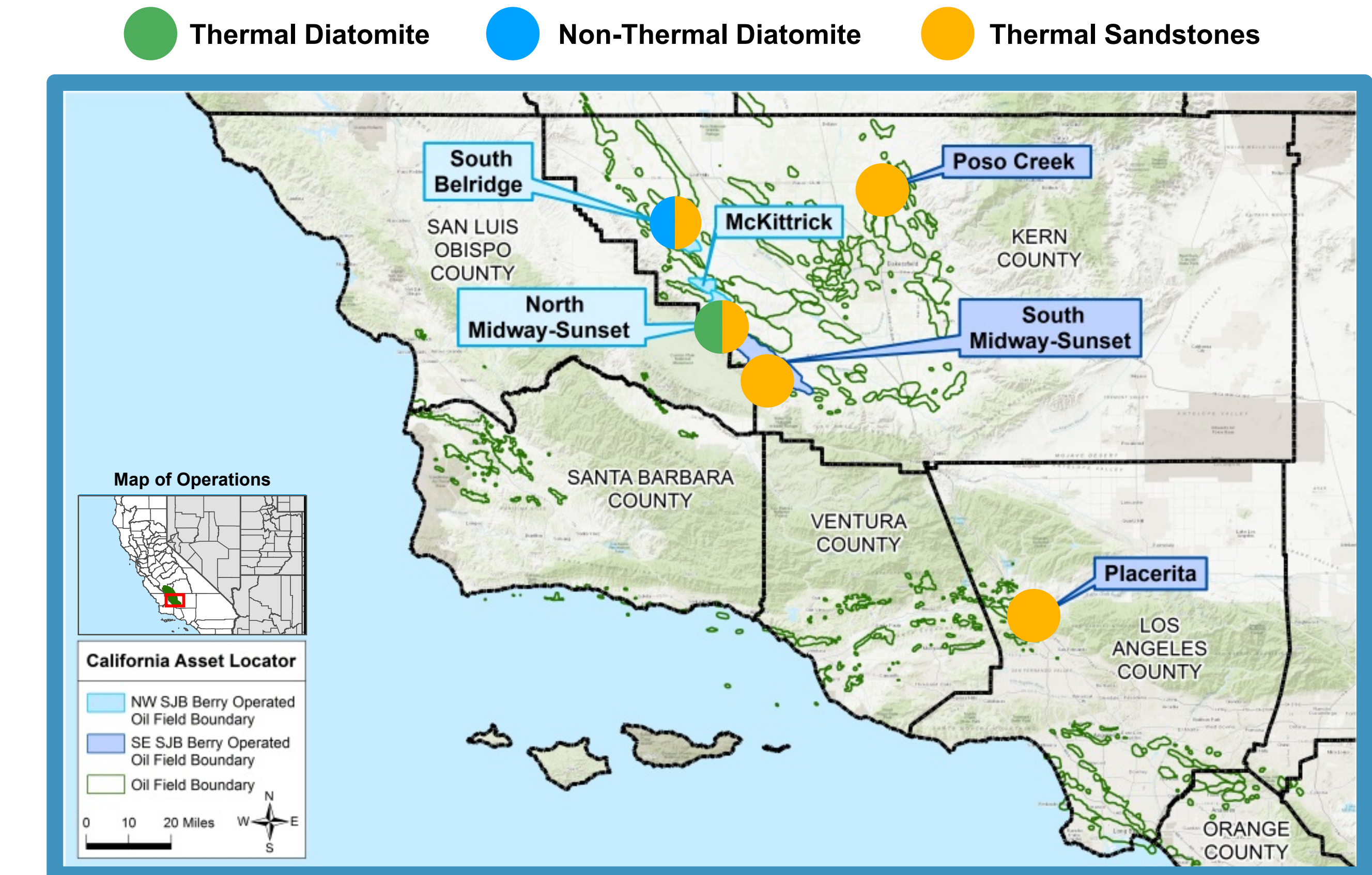




CALIFORNIA SANDSTONES

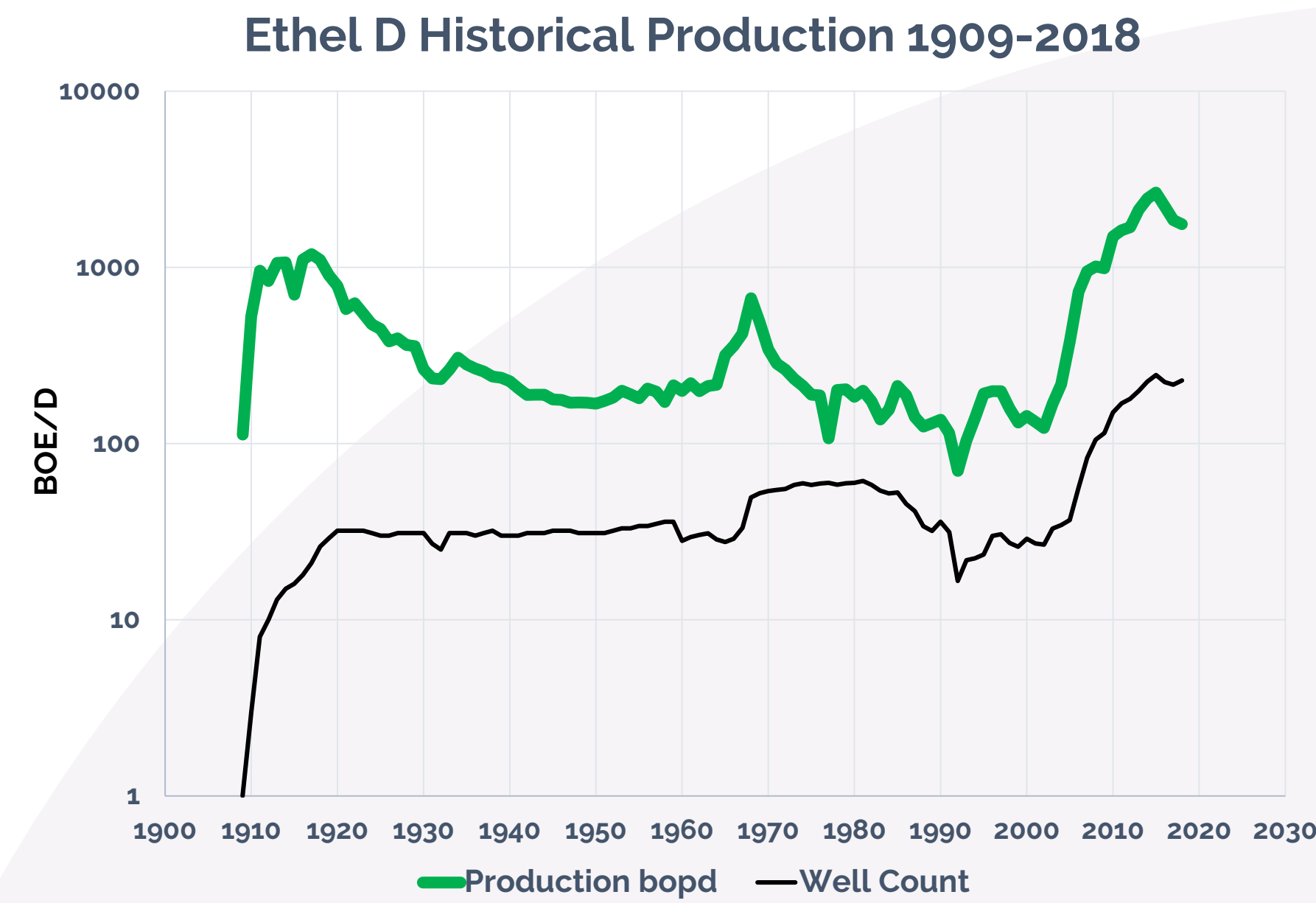
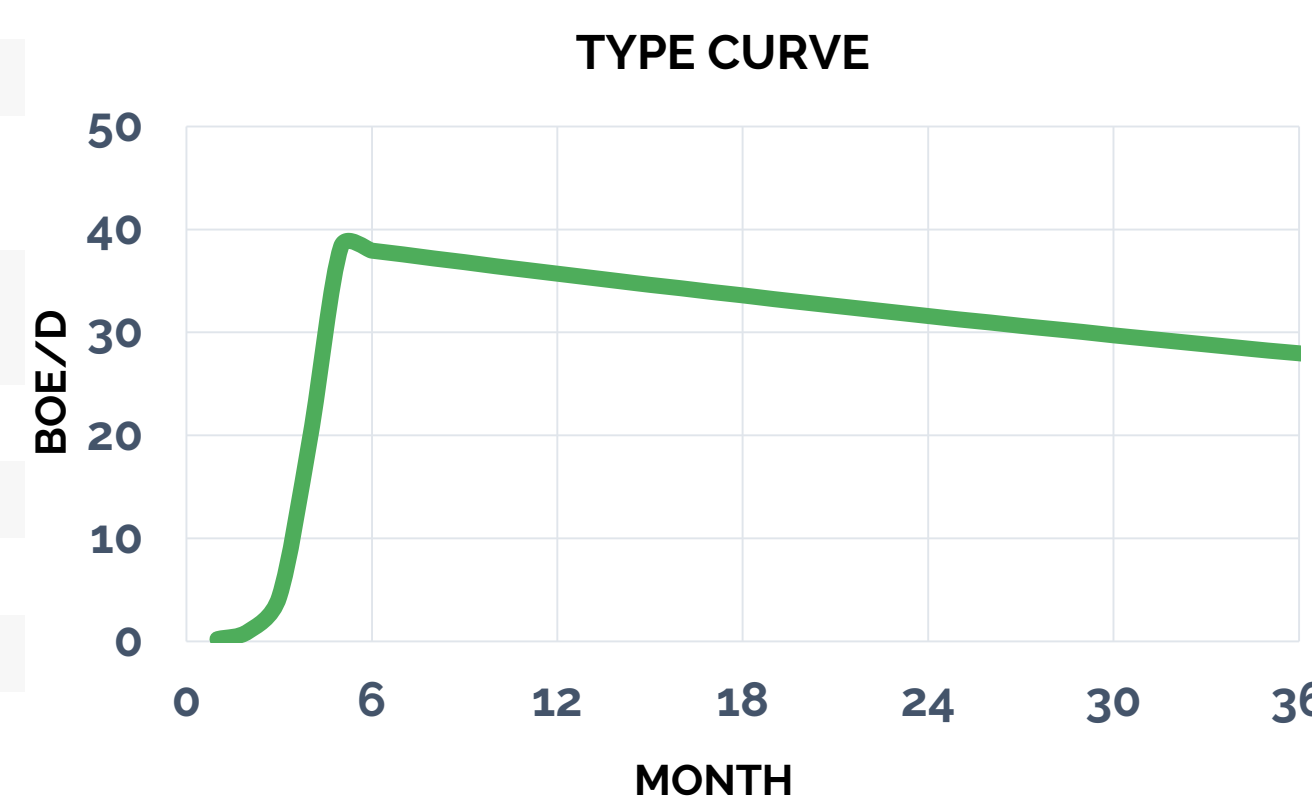
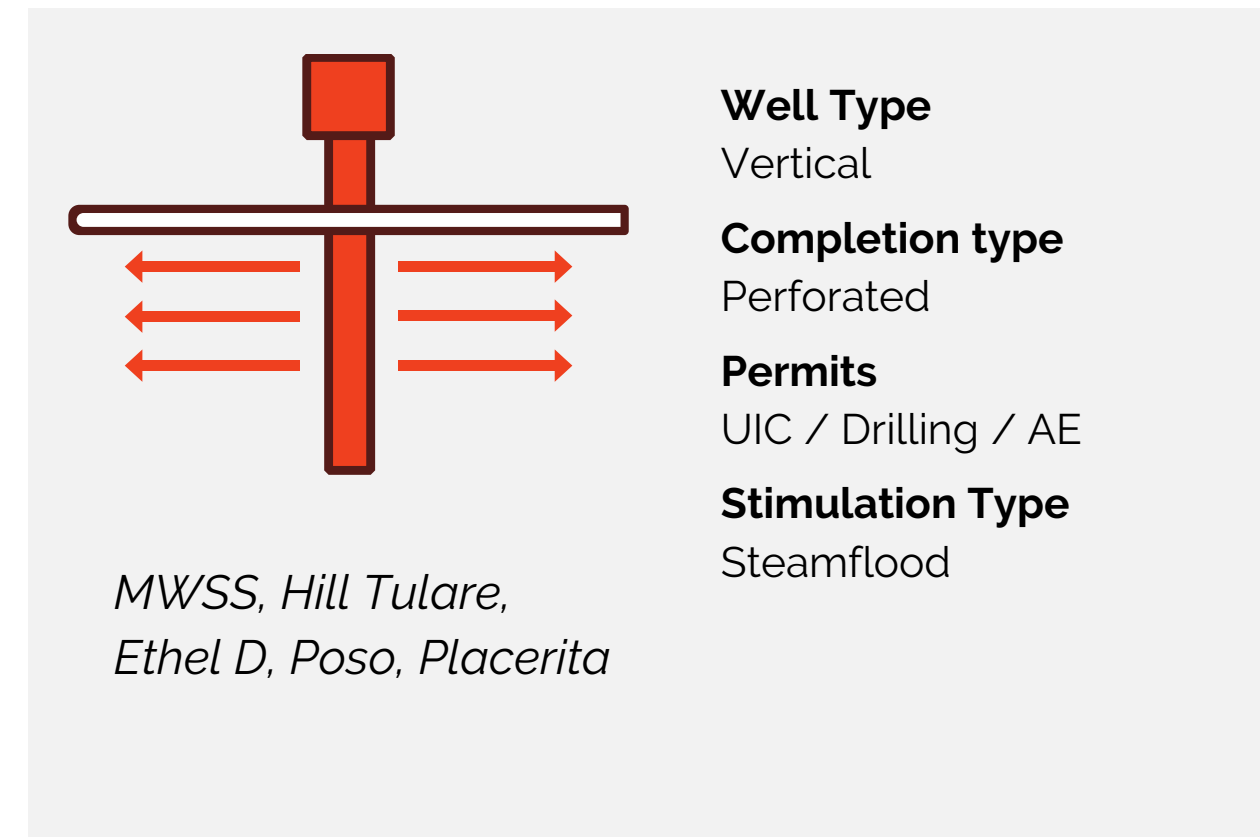
Our California Assets Have More Potential for Growth

MAP OF OPERATIONS

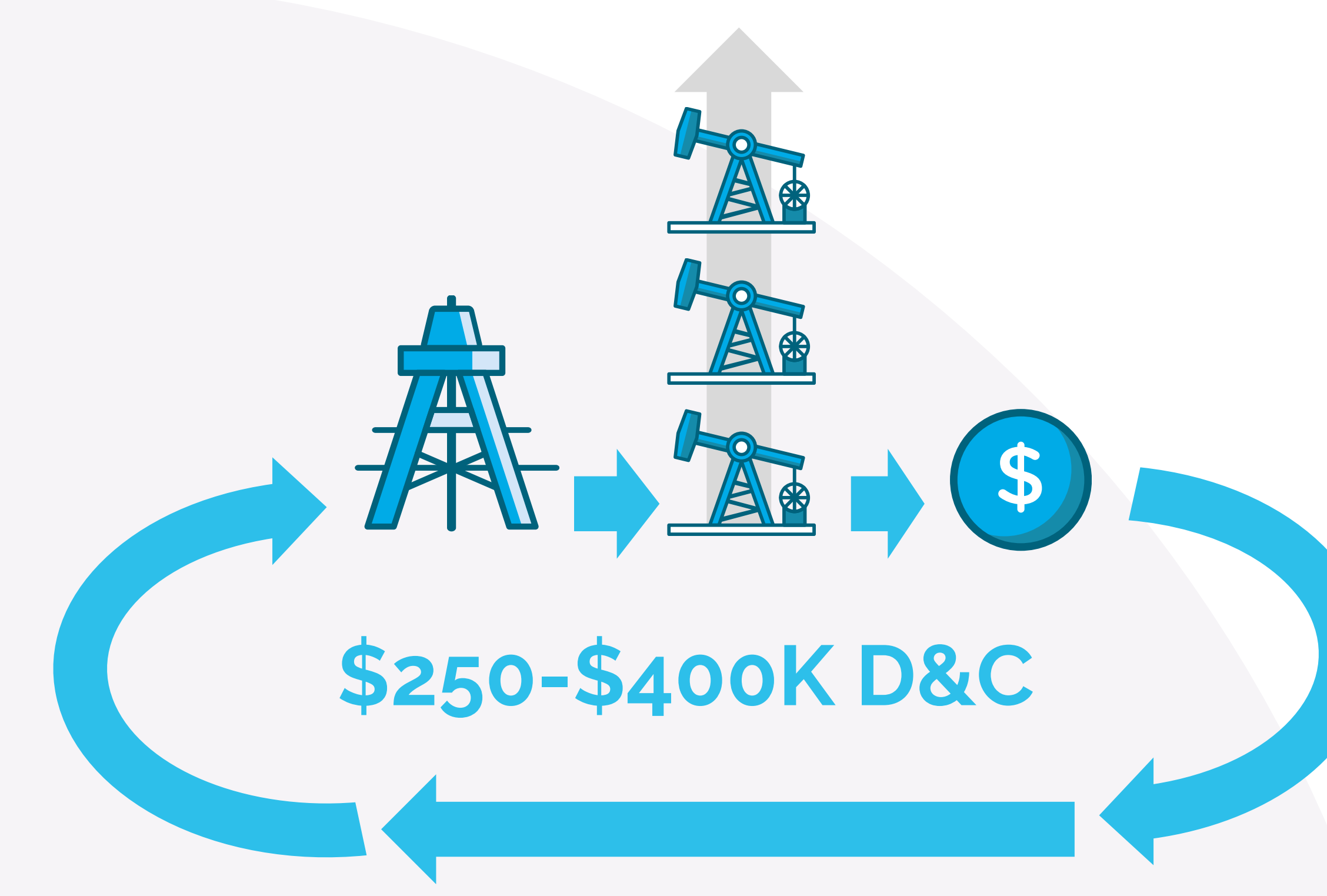


SANDSTONE INJECTOR PERFORMANCE

Sandstone Injector	Reservoir
870 / 870	Number of Wells (Tier 1/Total)
40-45	Number of 2019 Wells
98 / 93	WI/NRI
1 : 1	Producer to Injector Ratio
500 - 2,500	Depth (ft)
2.5	Days to Drill (Days)
38	IP Production (Boe/d)
5	Time to Peak Rate (Months)
100	Net EUR (Boe)
100	% Oil
(3.53)	Brent Differential (\$/bbl)
1,344	Fixed Opex per Well (\$/month)
1.68	Variable Opex per boe (\$/Boe)
8.37	Steam per boe (\$/Boe)
0.36	Severance Tax (\$/boe)
2.6	Ad Valorem Tax (%)
275	Gross D&C (\$M/well)

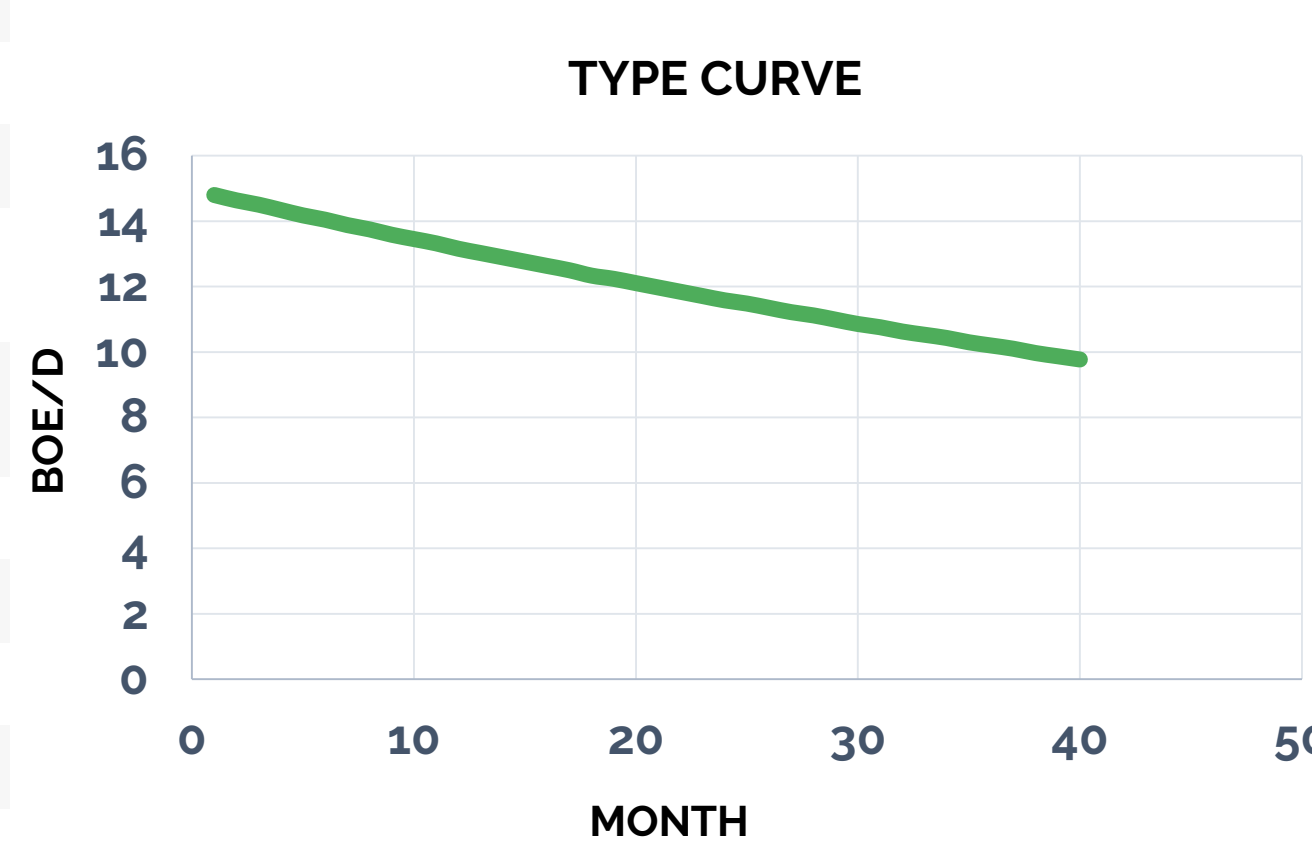
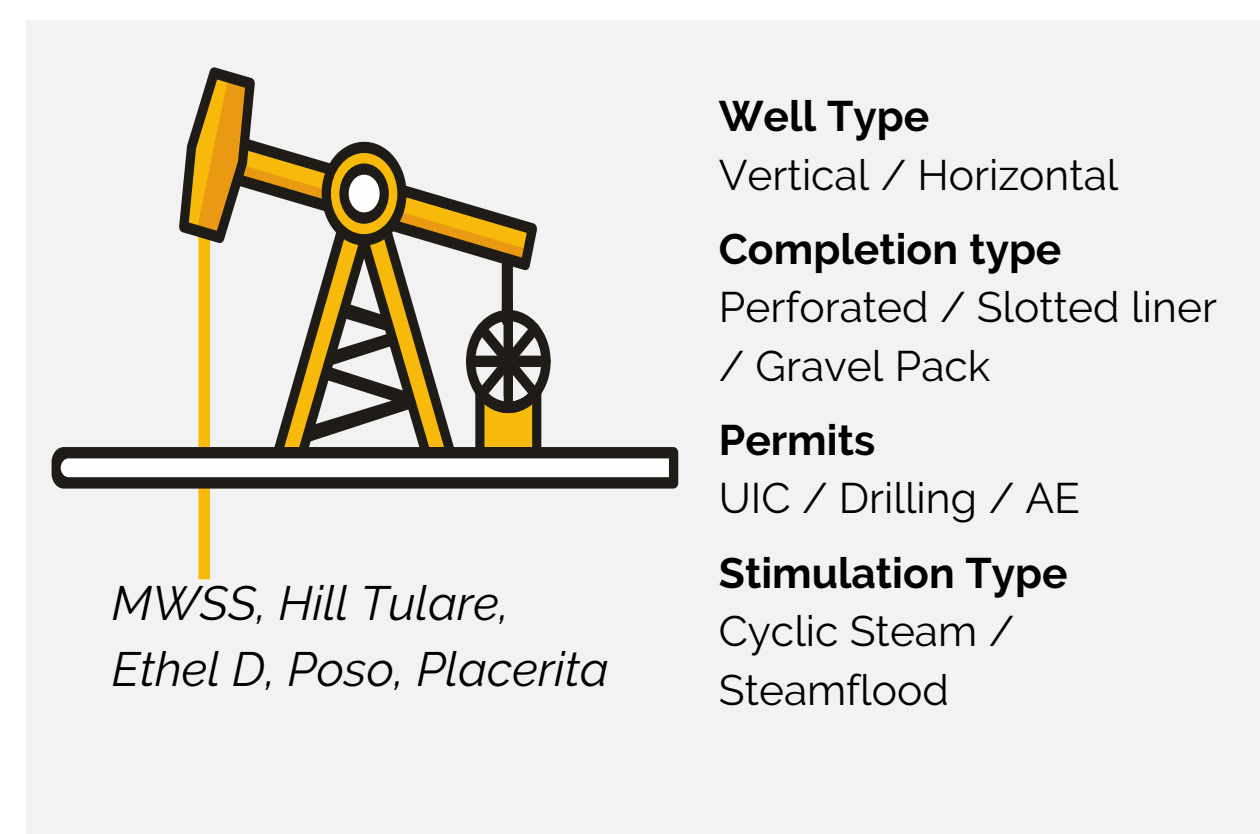


Opportunity - Ethel D Founding Lease 1909 Reached Peak Production in 2015



SANDSTONE WELL PERFORMANCE

Sandstone Producer	Reservoir
940 / 1430	Number of Wells (Tier 1/Total)
190 - 215	Number of 2019 Wells
98 / 93	WI/NRI
1 : 1	Producer to Injector Ratio
500 - 2,500	Depth (ft)
4.5	Days to Drill (Days)
14	IP Production (Boe/d)
0	Time to Peak Rate (Months)
41.2	Net EUR (Boe)
100	% Oil
(4.10)	Brent Differential (\$/bbl)
2,300	Fixed Opex per Well (\$/month)
2.31	Variable Opex per boe (\$/Boe)
4.50	Steam per boe (\$/Boe)
0.28	Severance Tax (\$/boe)
2.6	Ad Valorem Tax (%)
350	Gross D&C (\$M/well)

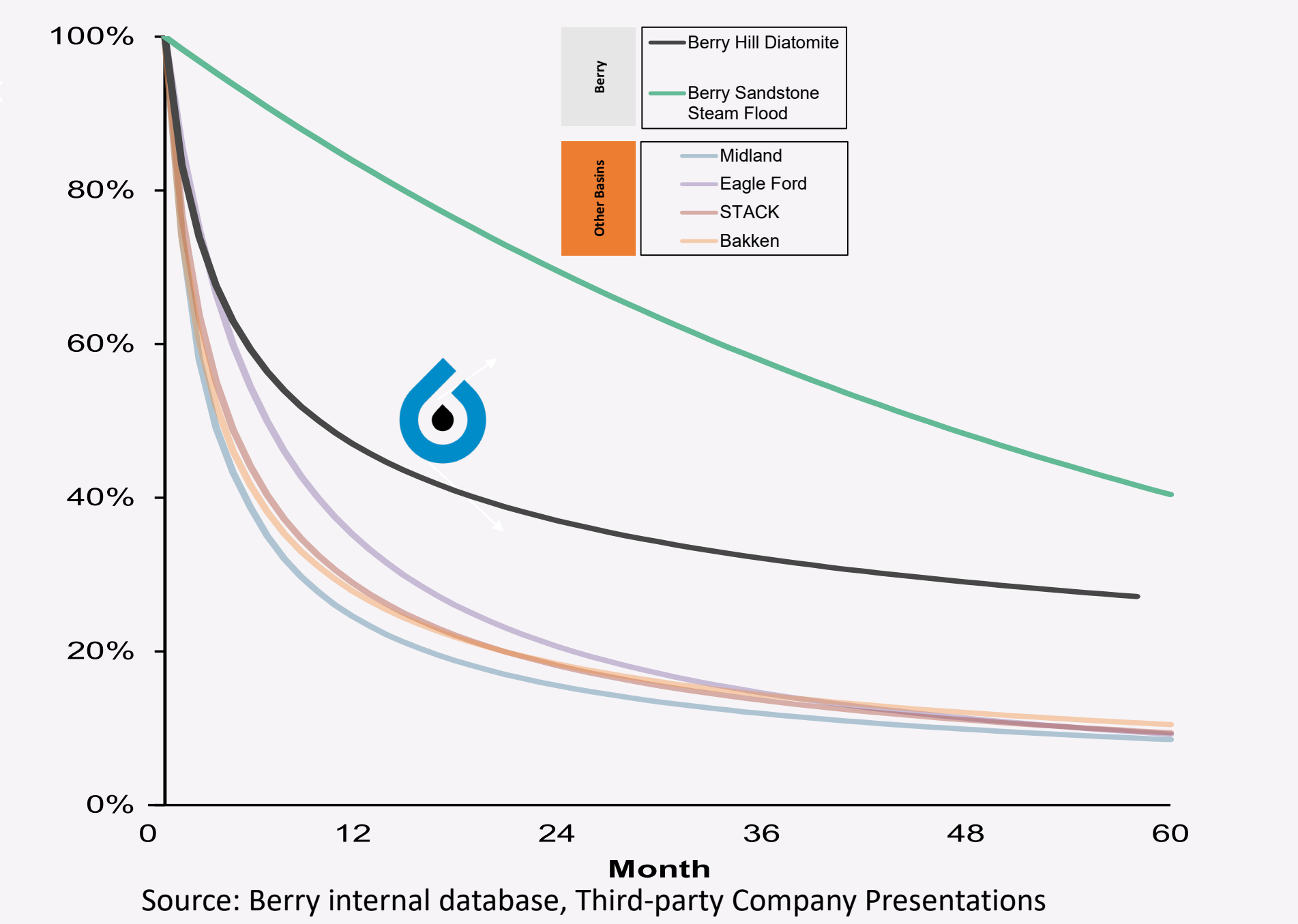


PROTECT AND GROW THE BASE

SANDSTONE THERMAL PROJECTS 12 MONTH STEAM TO OIL RATIO OF 7:1

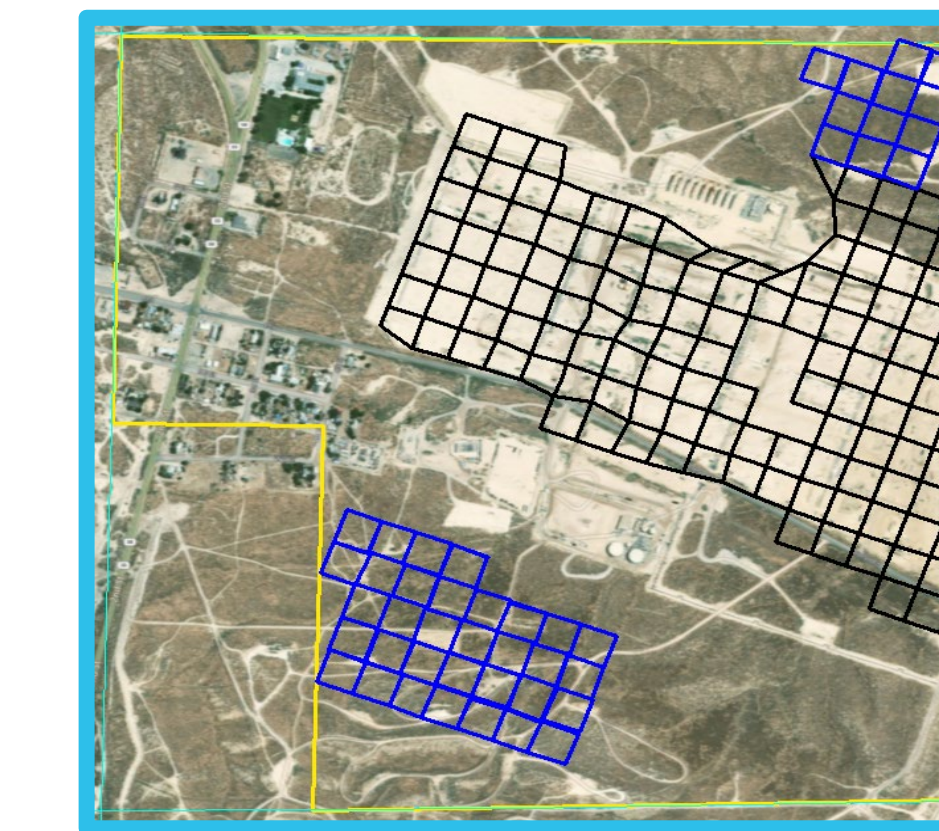


% OF INITIAL RATE FROM PEAK PRODUCTION (NEW WELLS)



Shallow Decline - Our projects are simple, shallow, inexpensive and repeatable

21Z

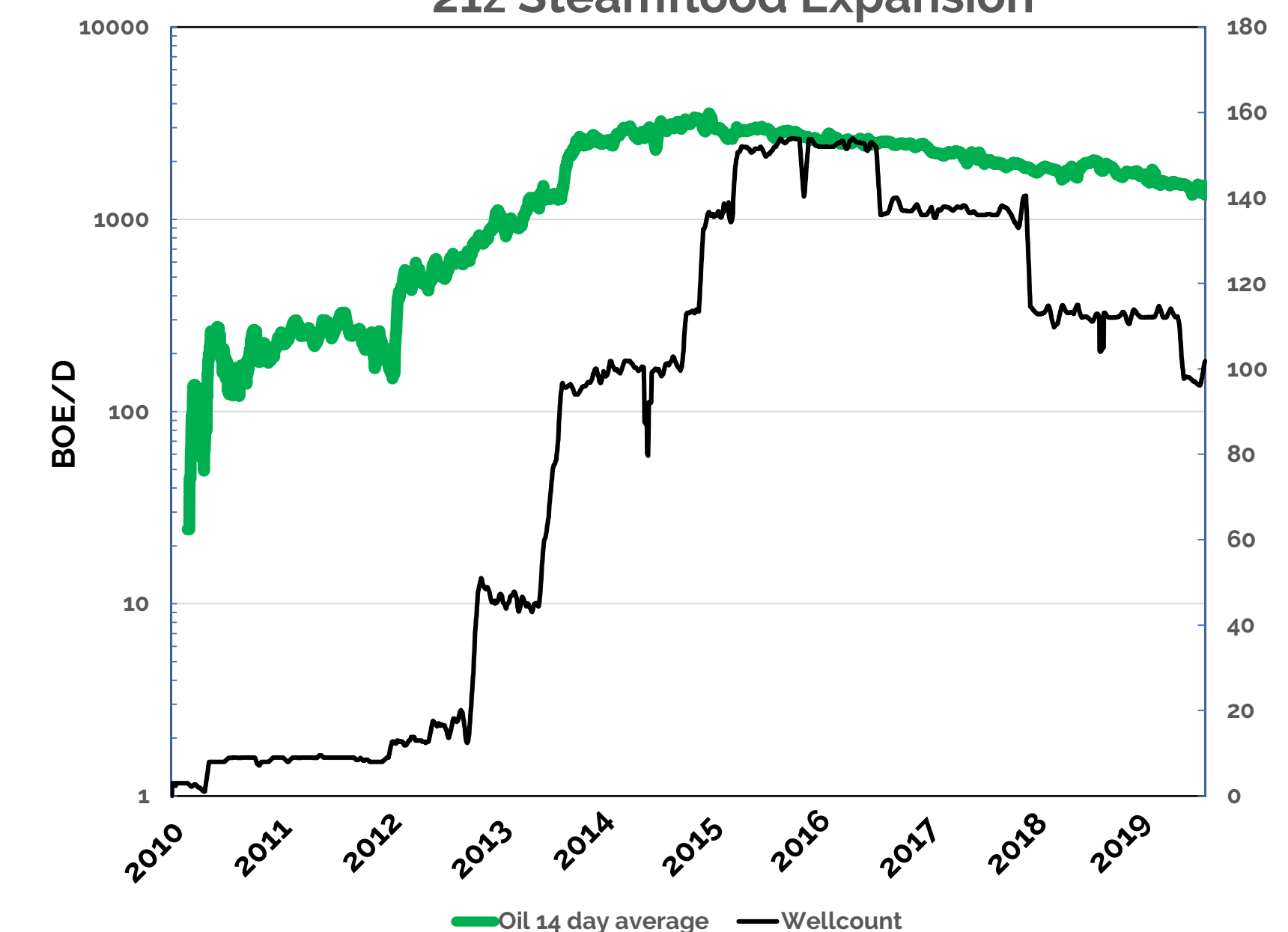


TULARE RESERVOIR PROPERTIES

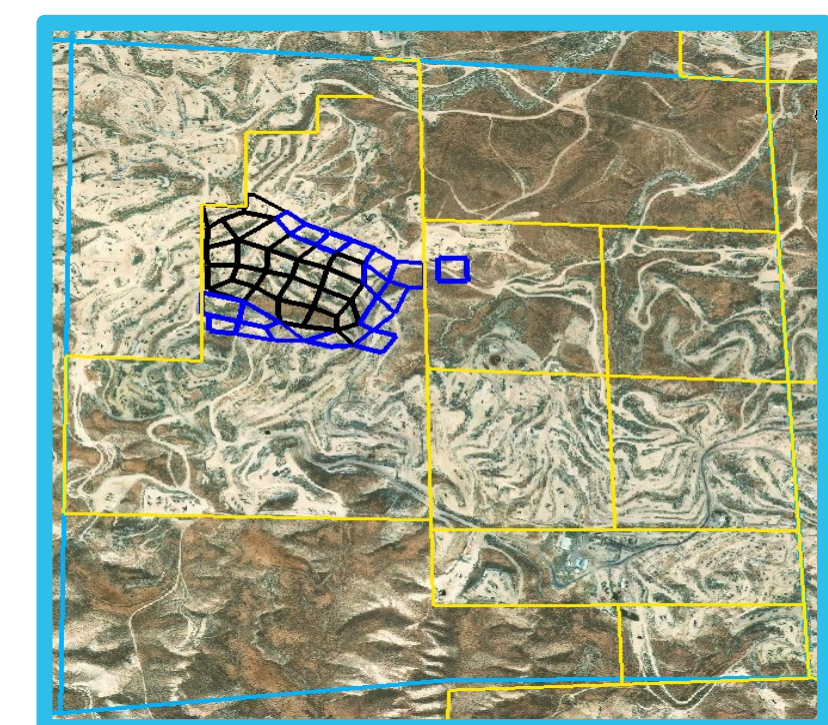
- Avg. Depth: 590 - 980 ft. MD
- Avg. Gross Thickness: 350 ft.
- Original NTG: 62%
- Avg. Porosity: 33 %
- Avg. oil sat.: 56%
- Perm. Range: 1500 - 9,000 mD
- Avg. Oil Gravity: 10.5 API
- Avg. Viscosity: 8,900 cp (@122°F)

OPPORTUNITY

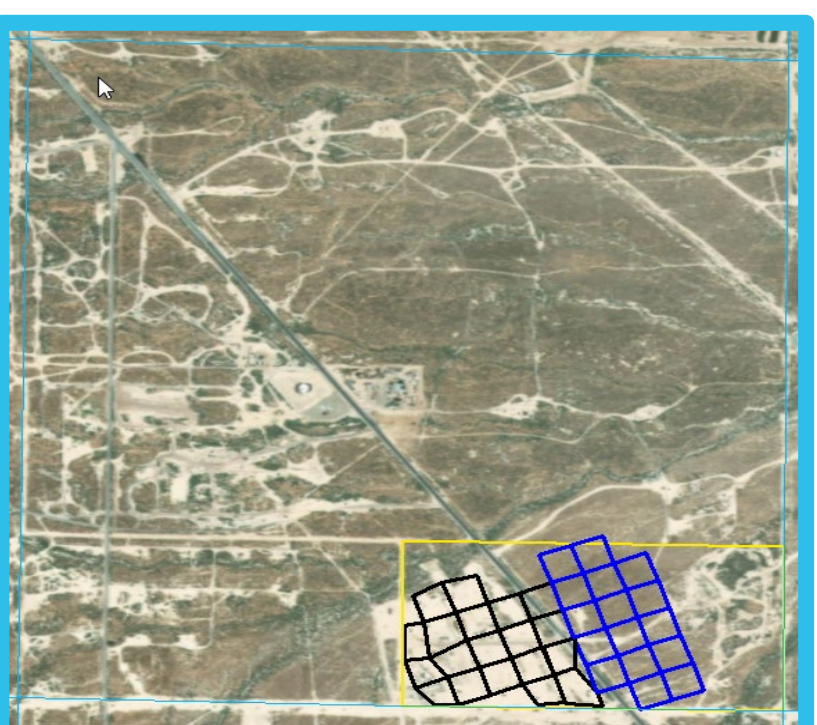
21Z Steamflood Expansion



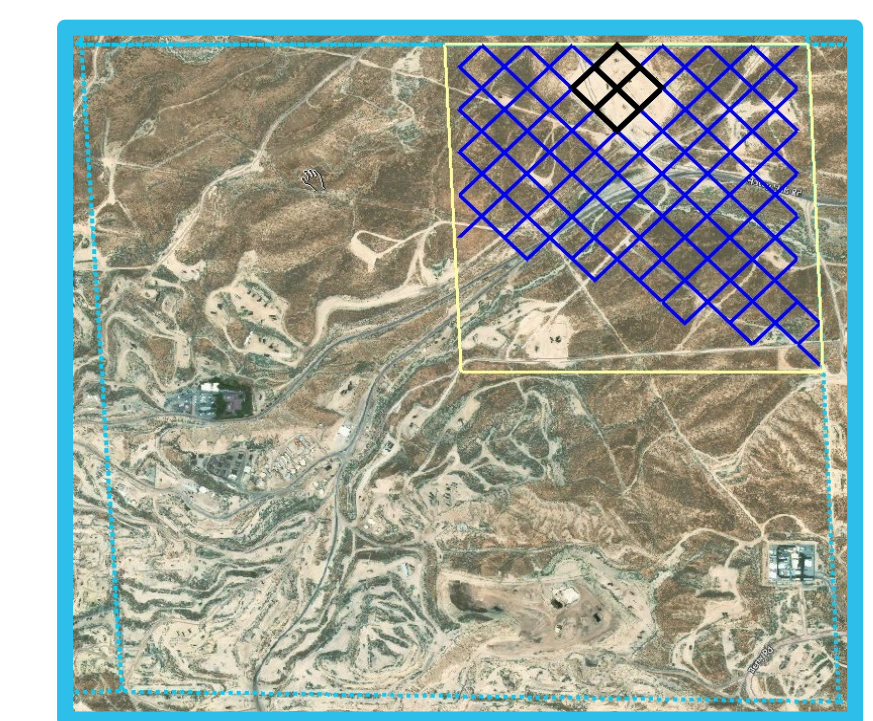
FORMAX



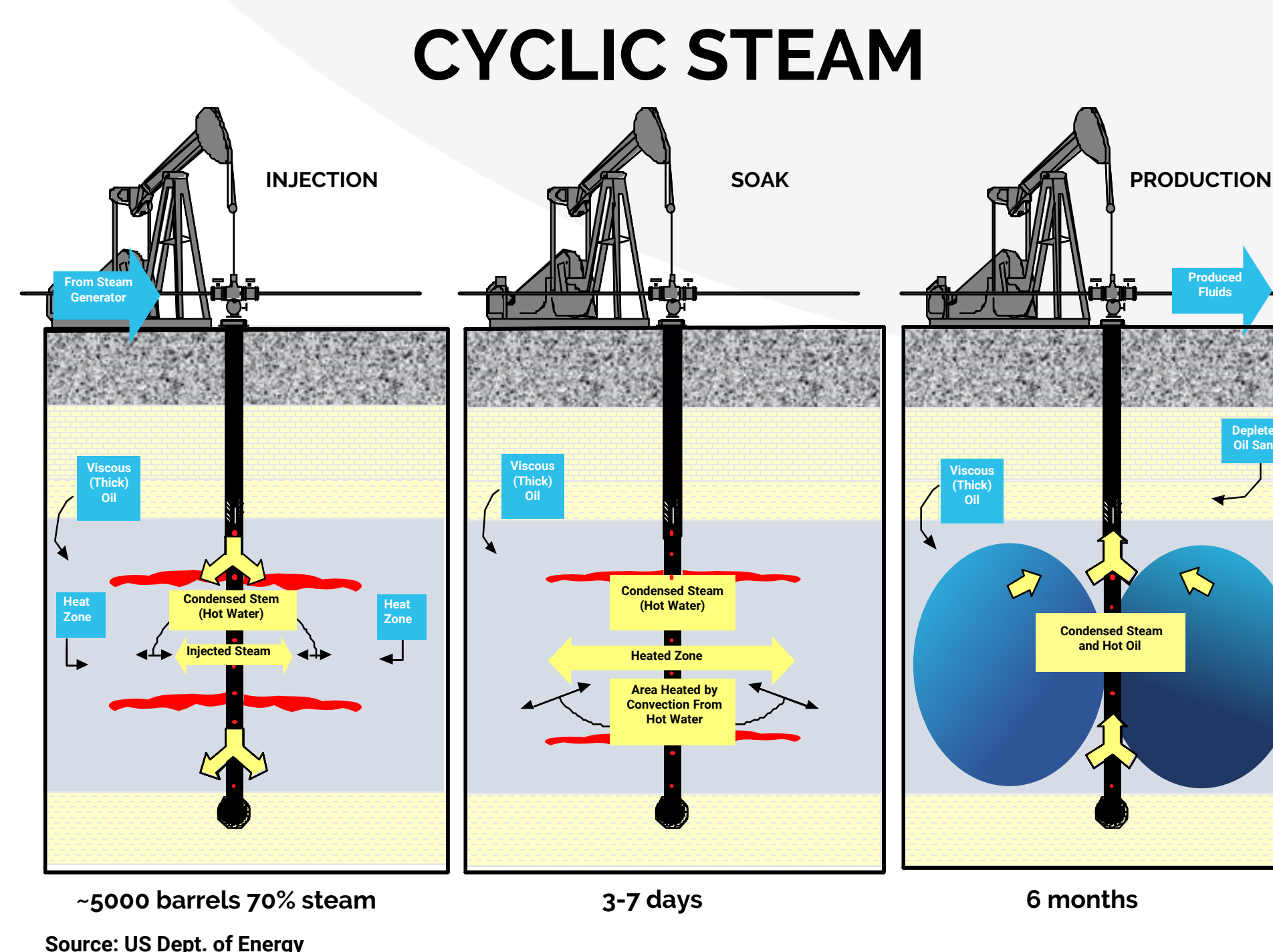
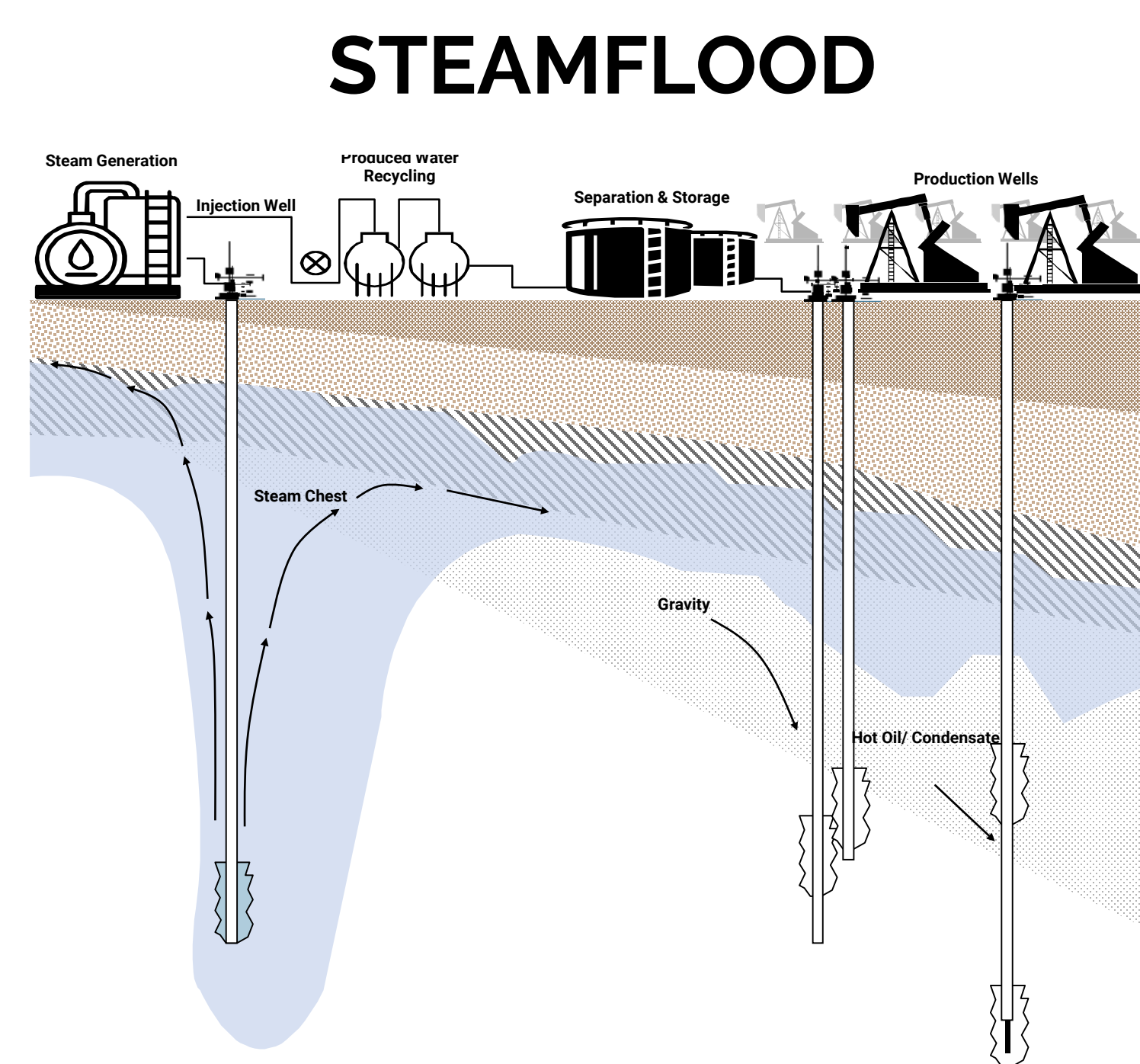
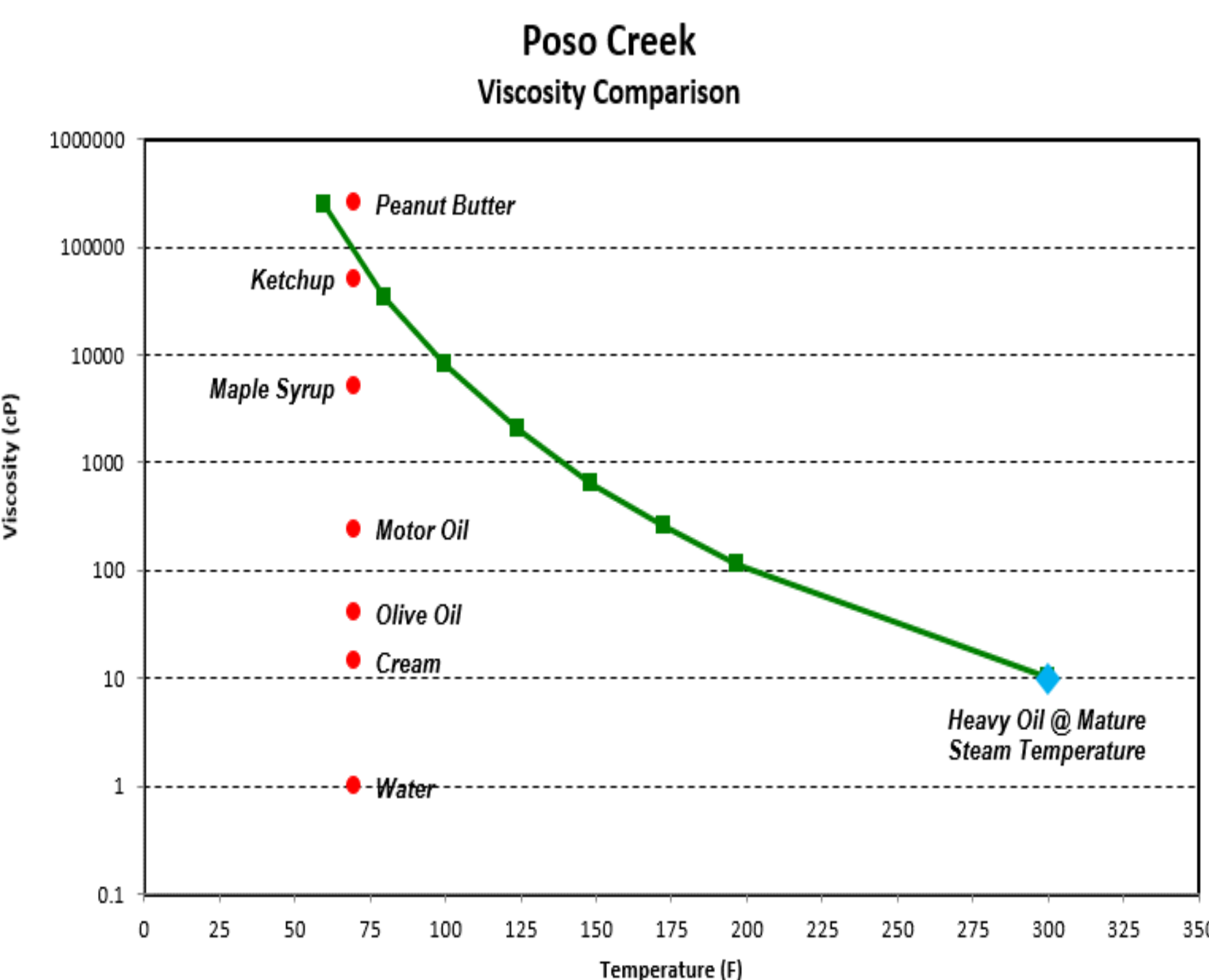
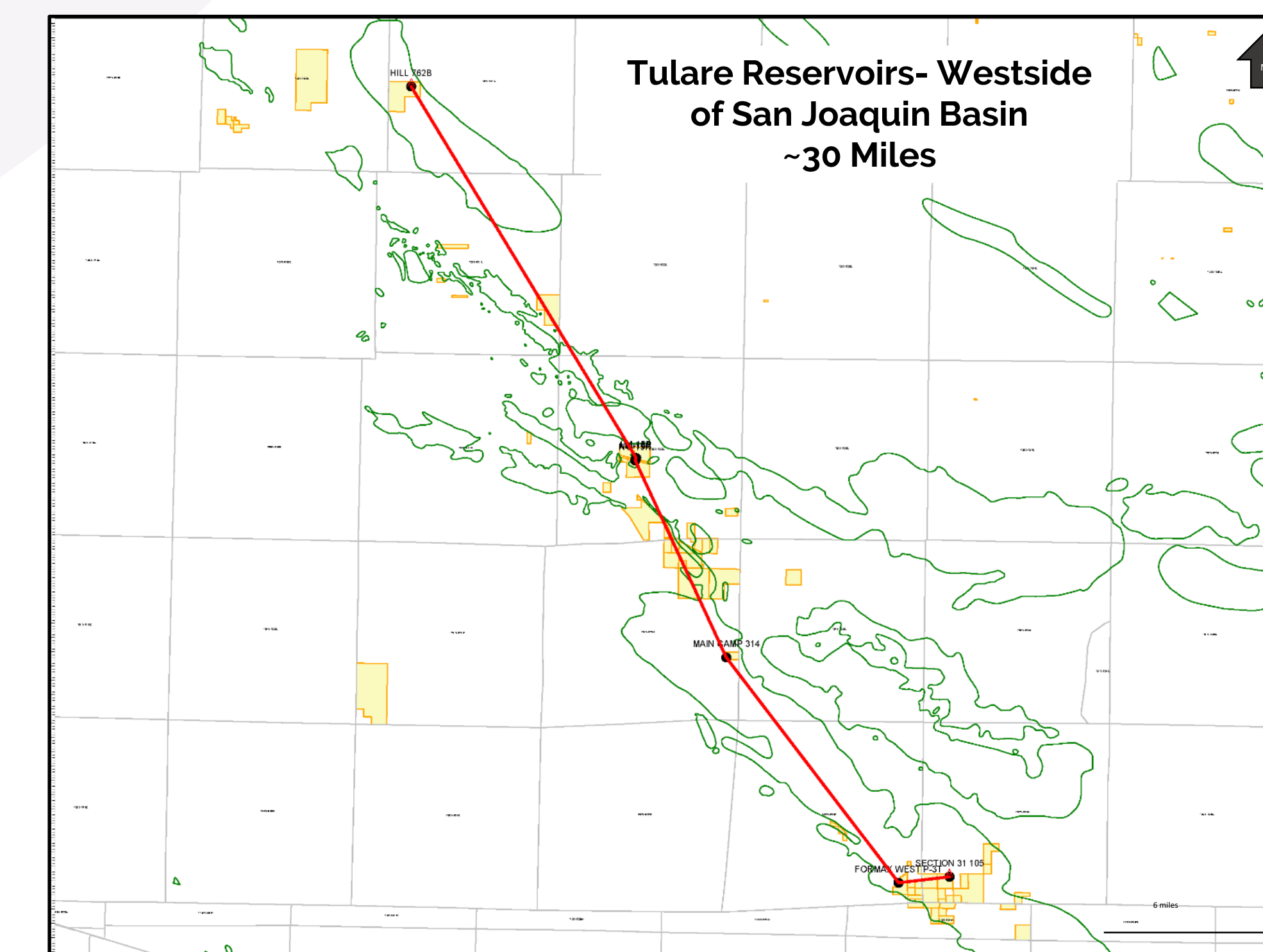
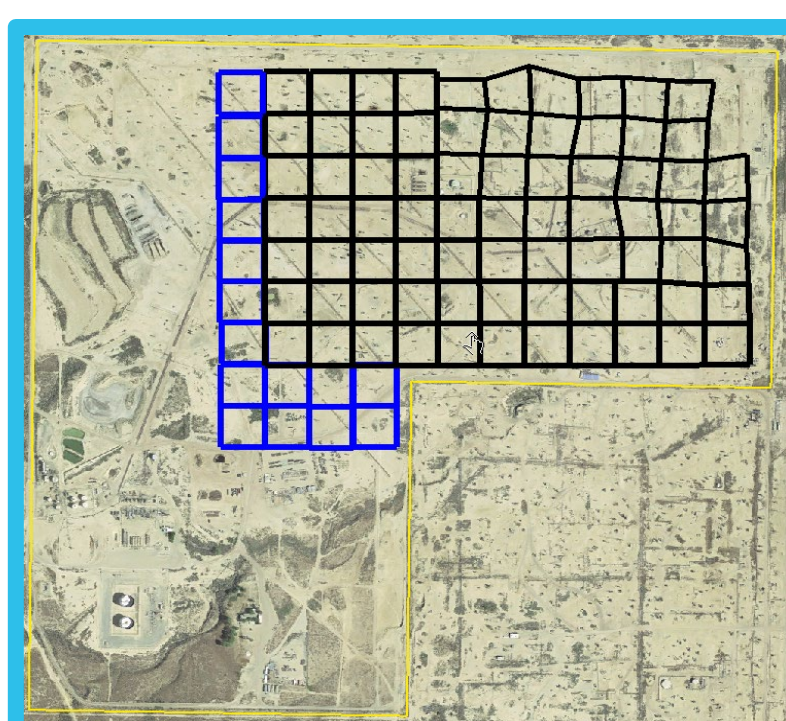
MAIN CAMP



SEC 31



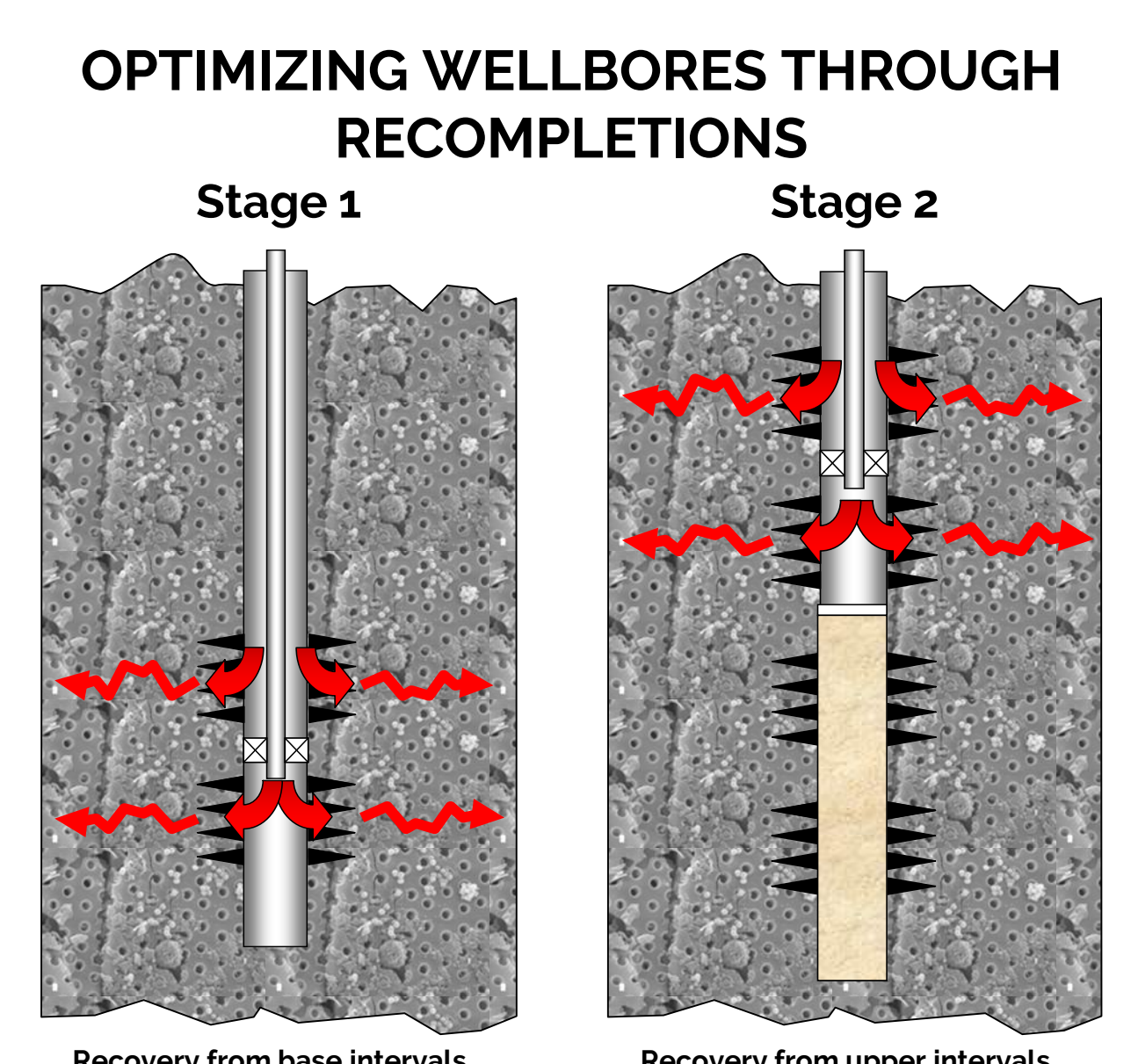
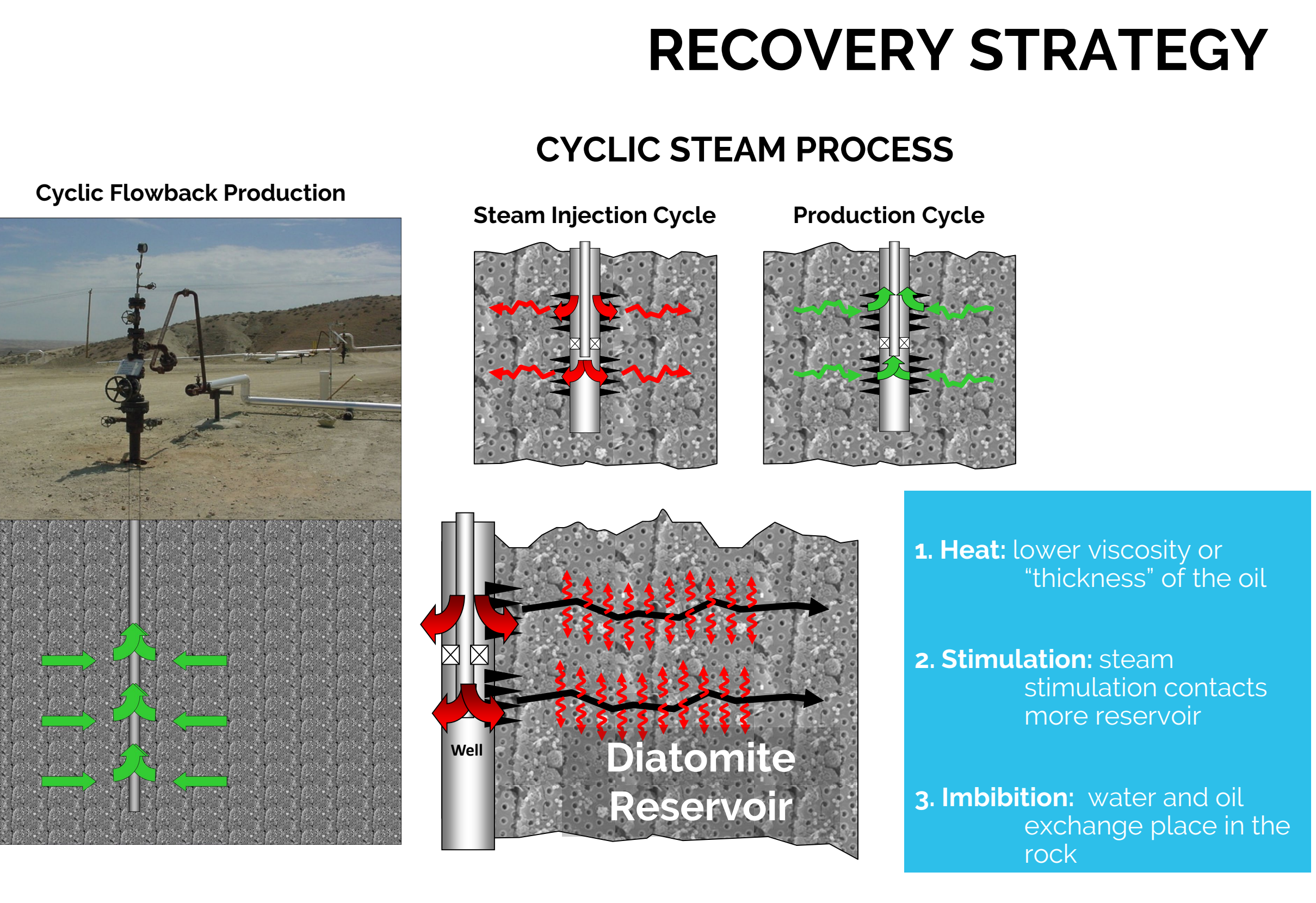
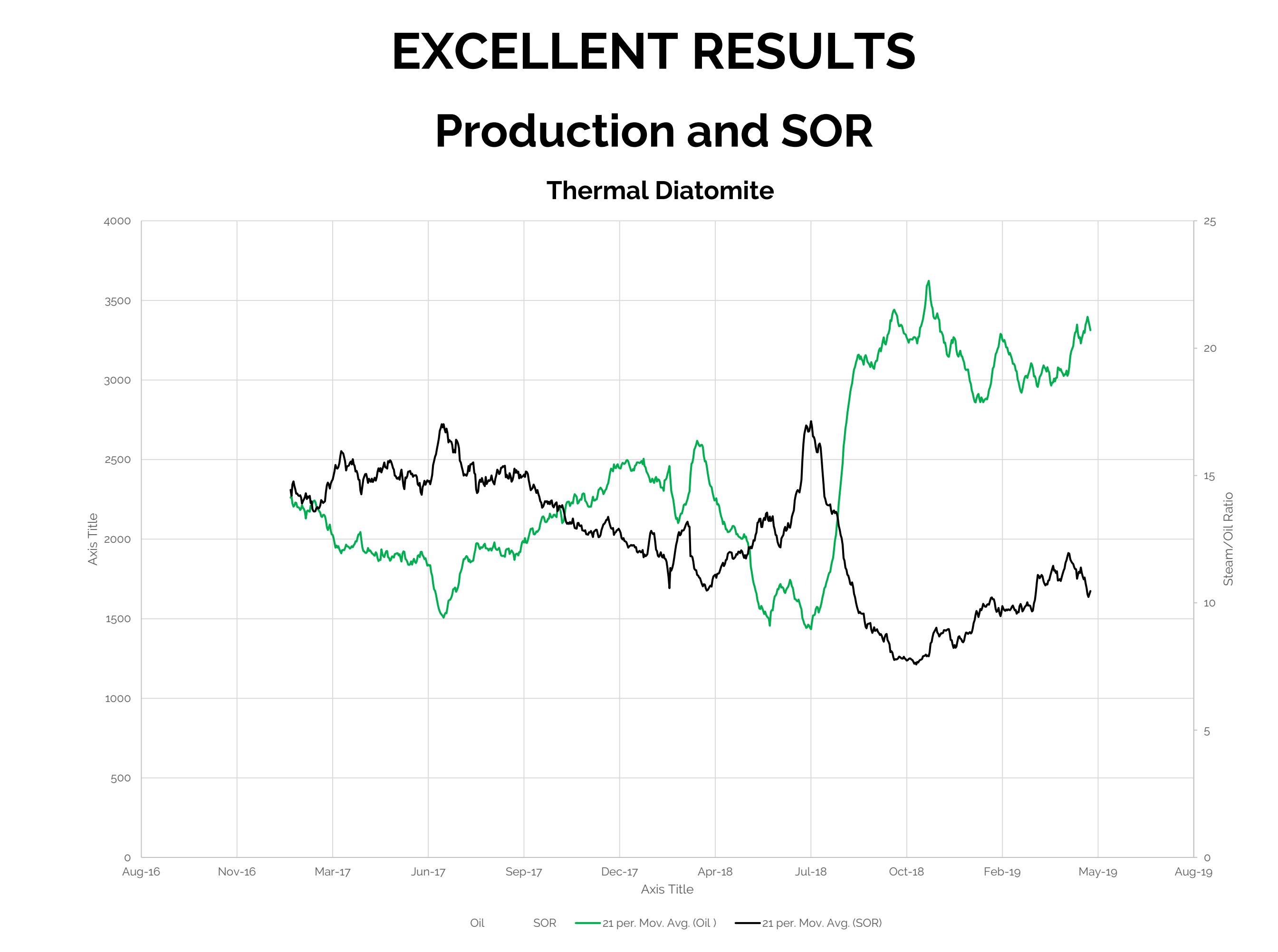
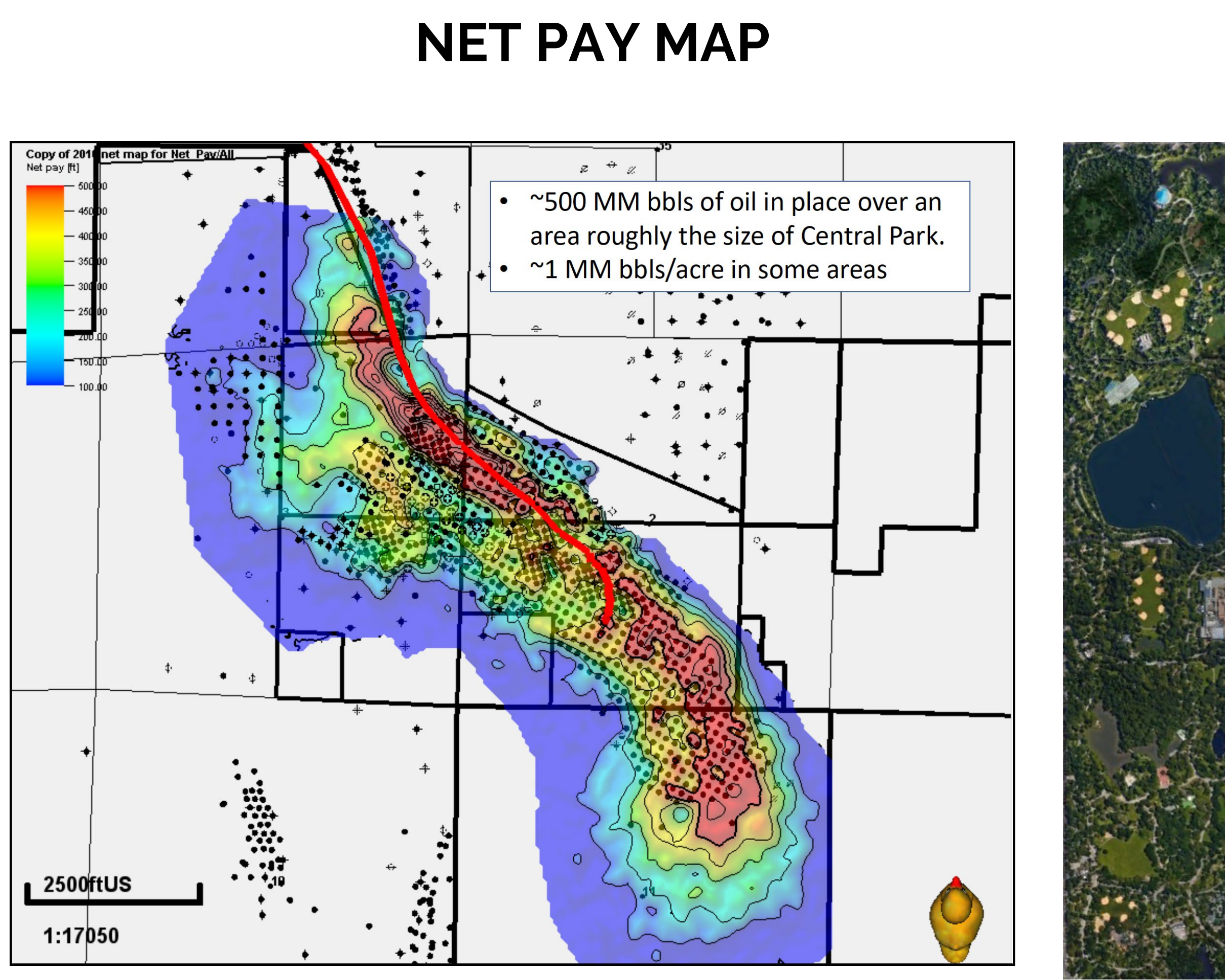
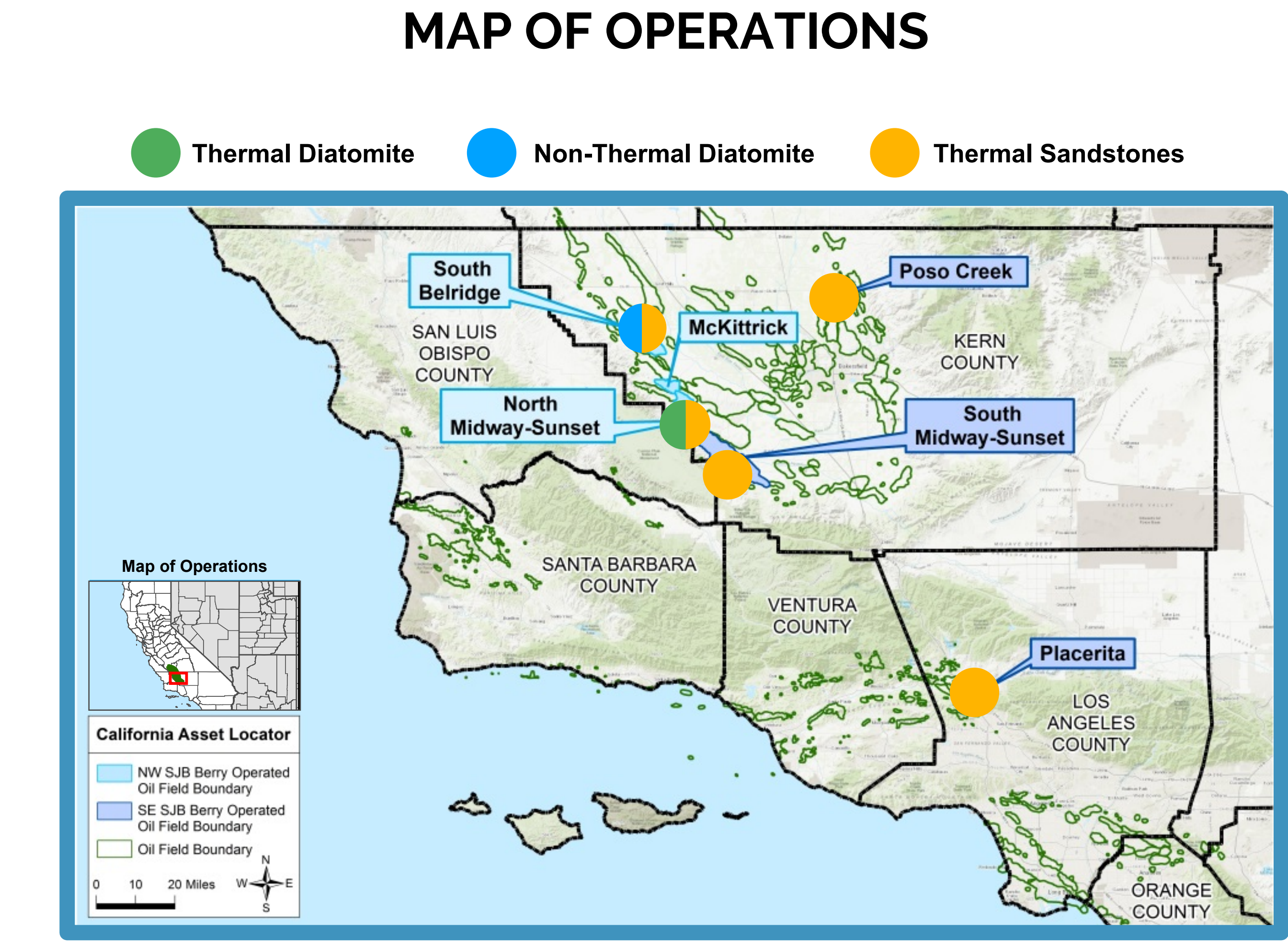
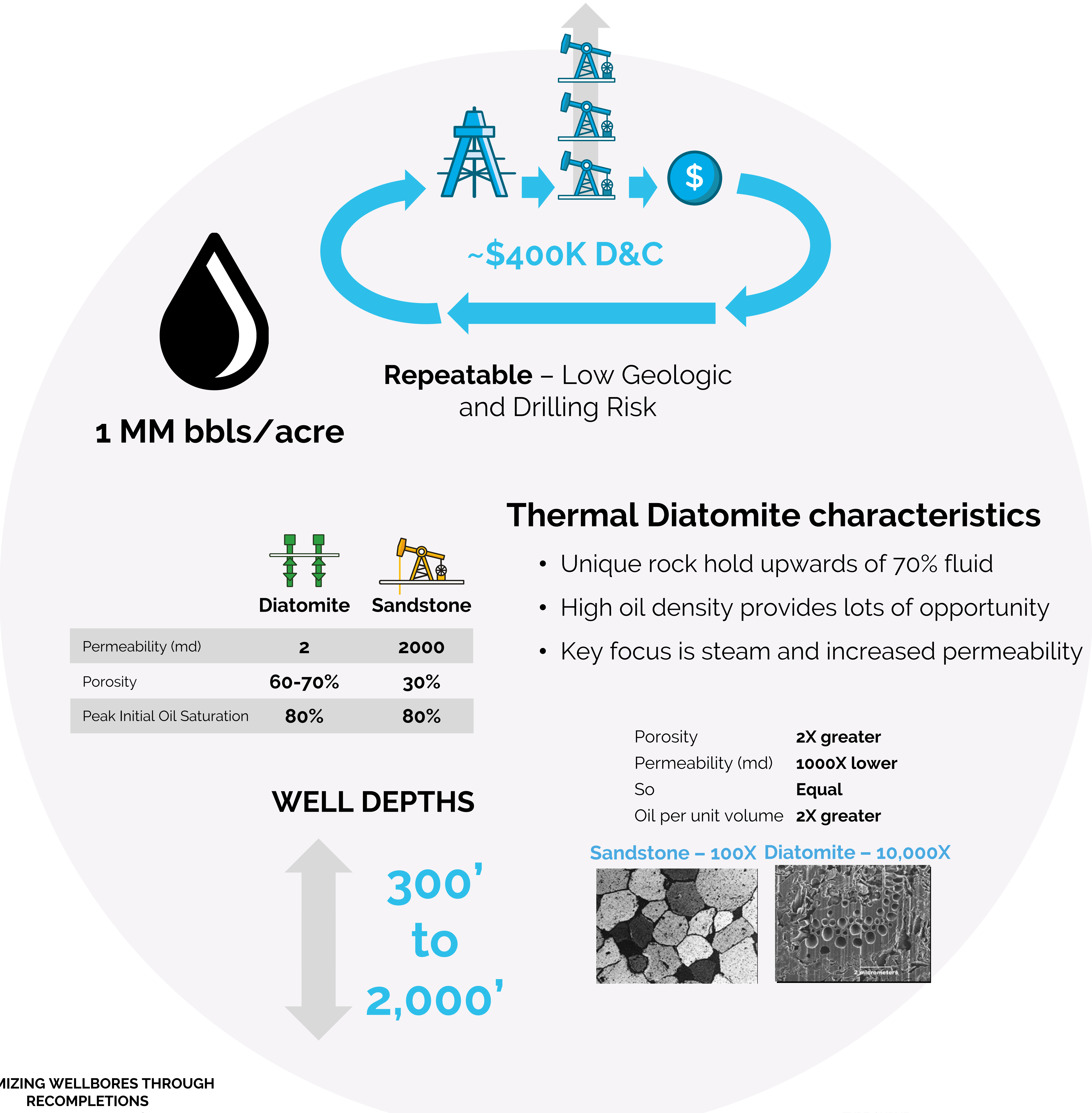
HILL TULARE



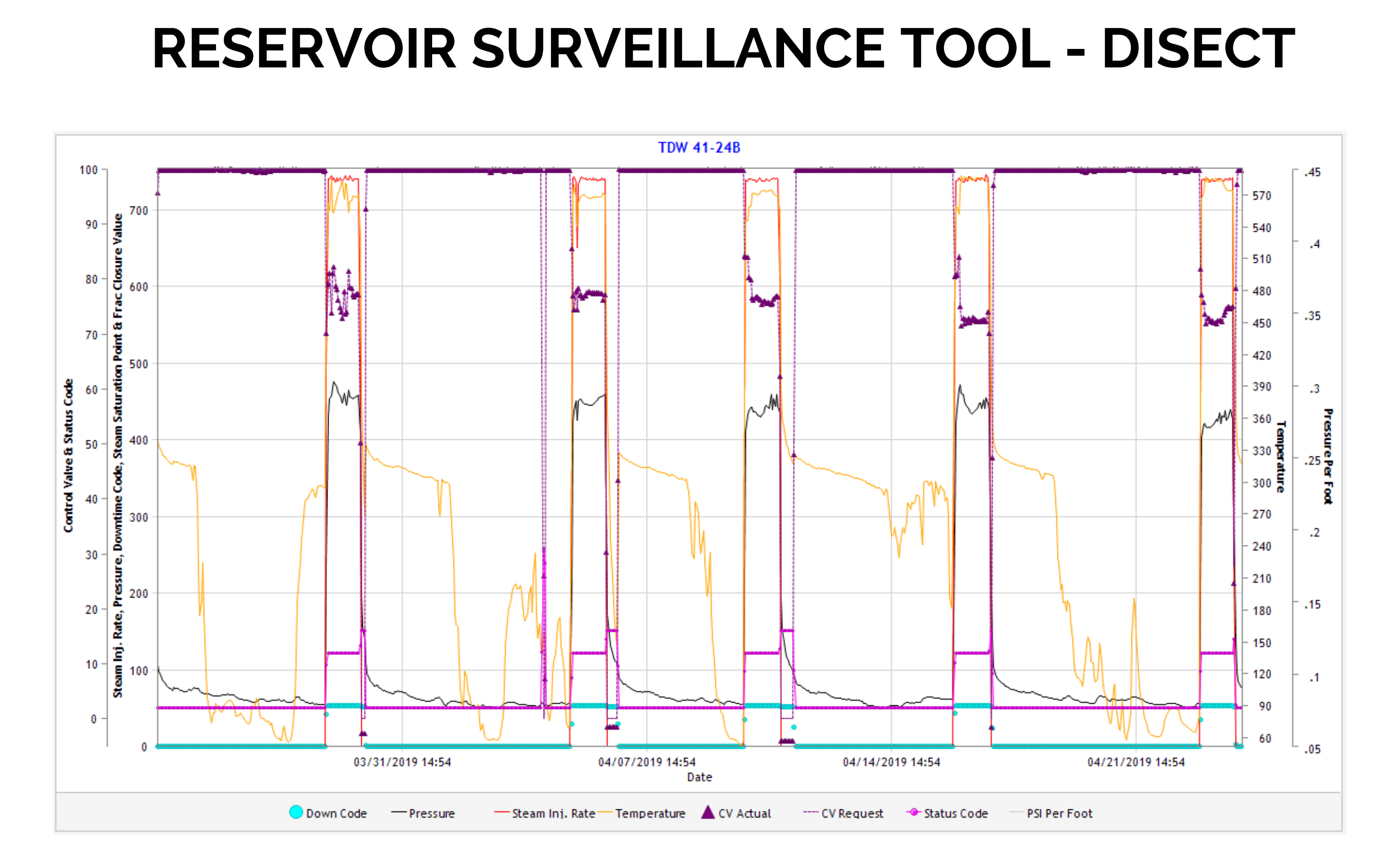
Source: US Dept. of Energy



THERMAL DIATOMITE



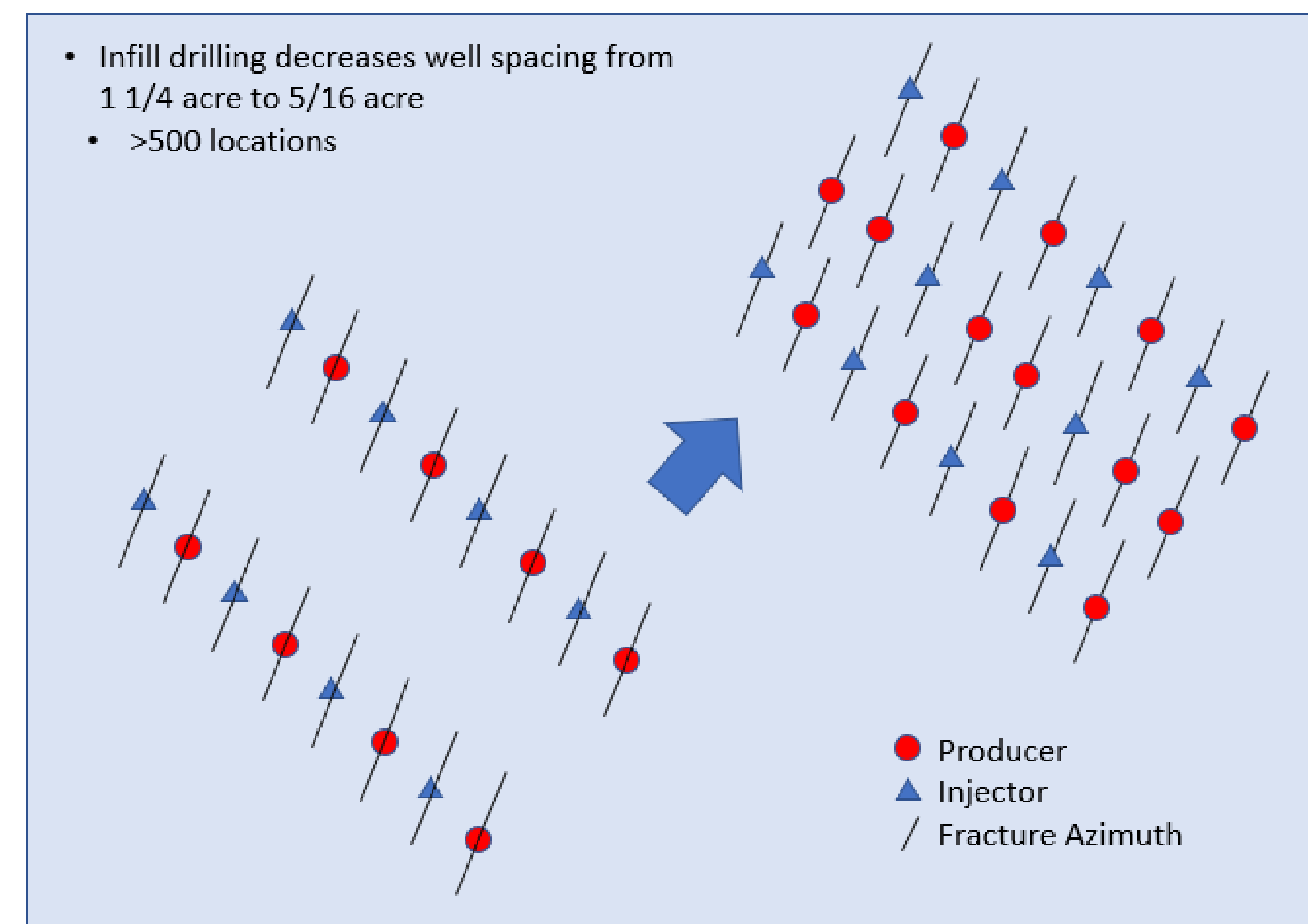
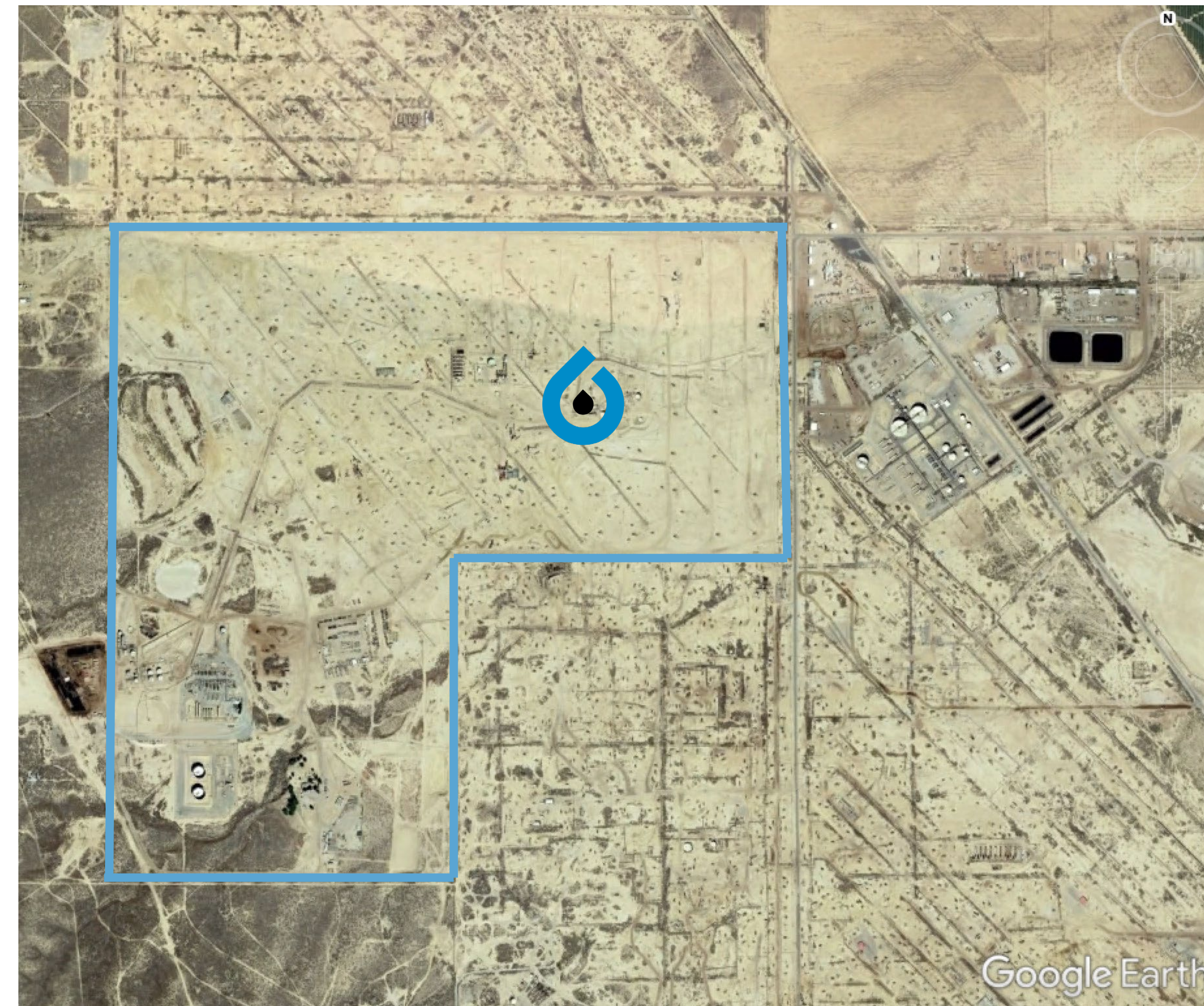
Thermal Diatomite	Well Type
	Vertical
	Completion type
	Short Interval Completions
	Permits
	UIC / Drilling / AE
	Stimulation Type
	Cyclic Steam



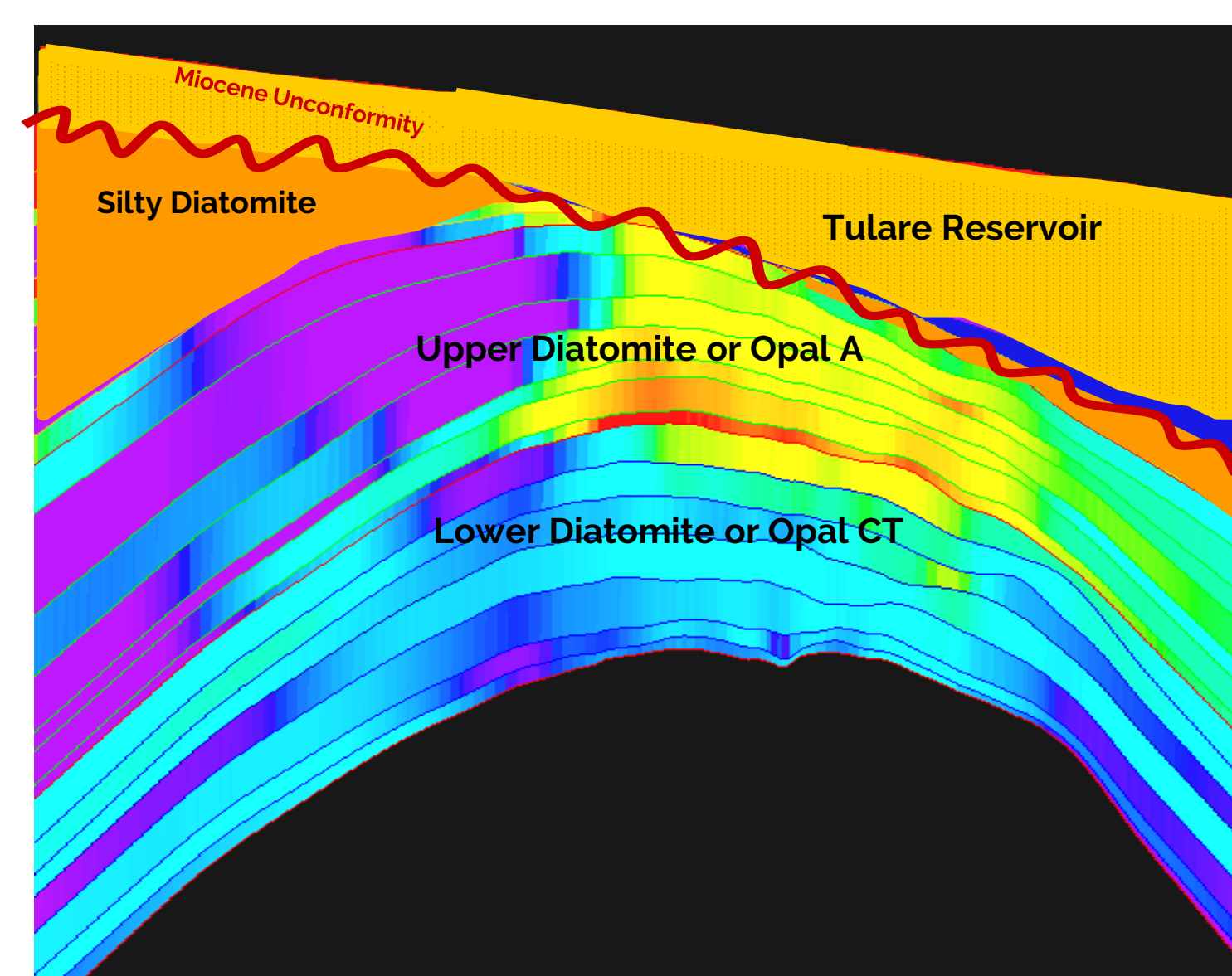


NON-THERMAL DIATOMITE

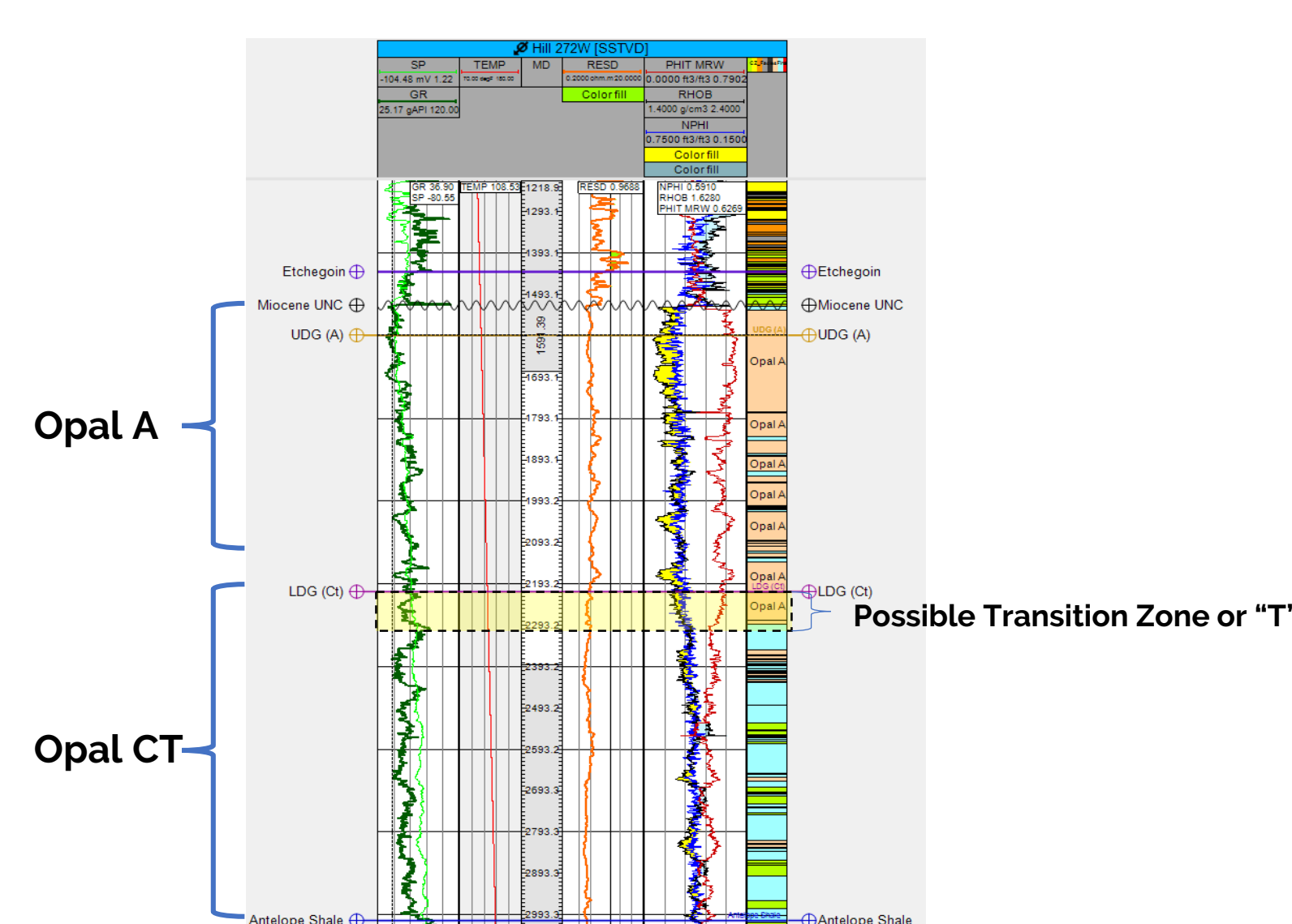
HUNDREDS OF REPEATABLE LOCATIONS



CROSS-SECTION

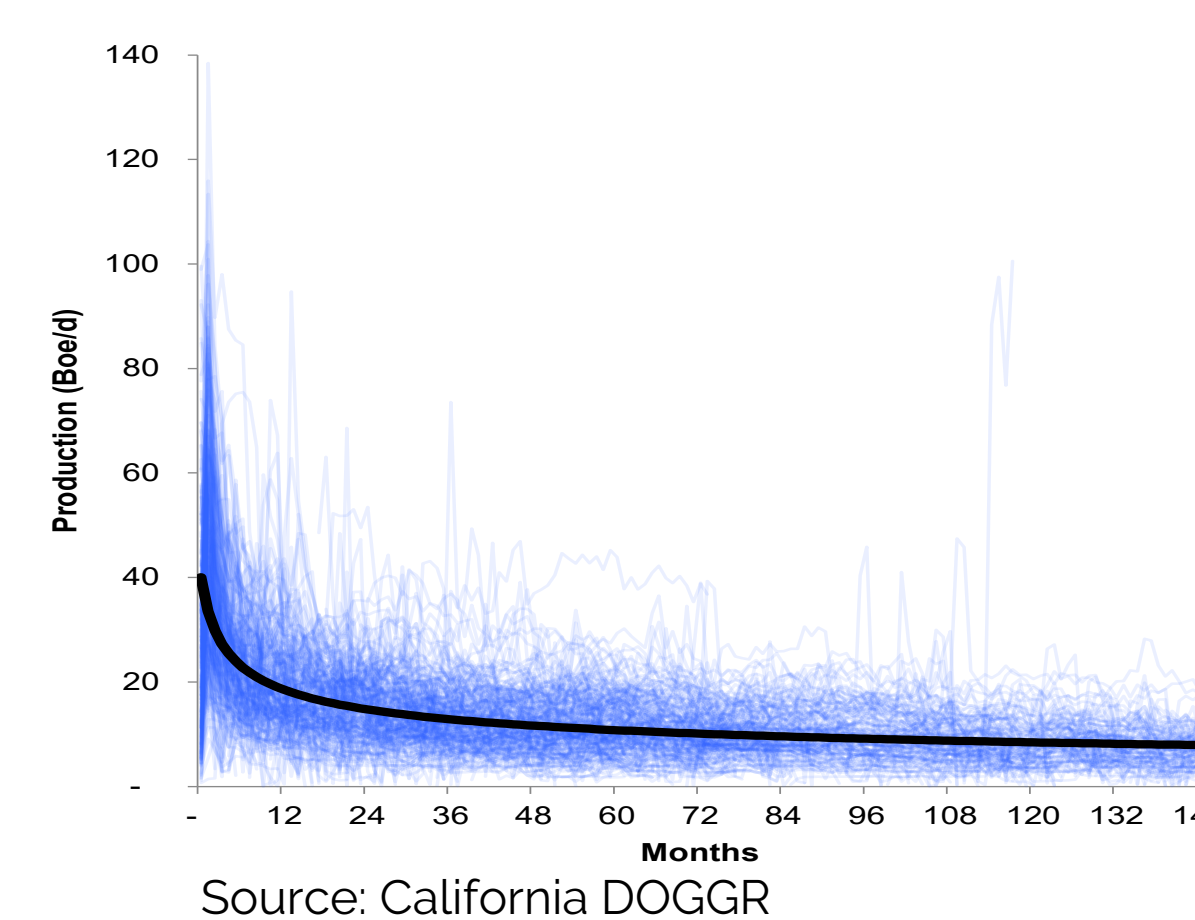


DIATOMITE TYPE LOG (HILL 272W)

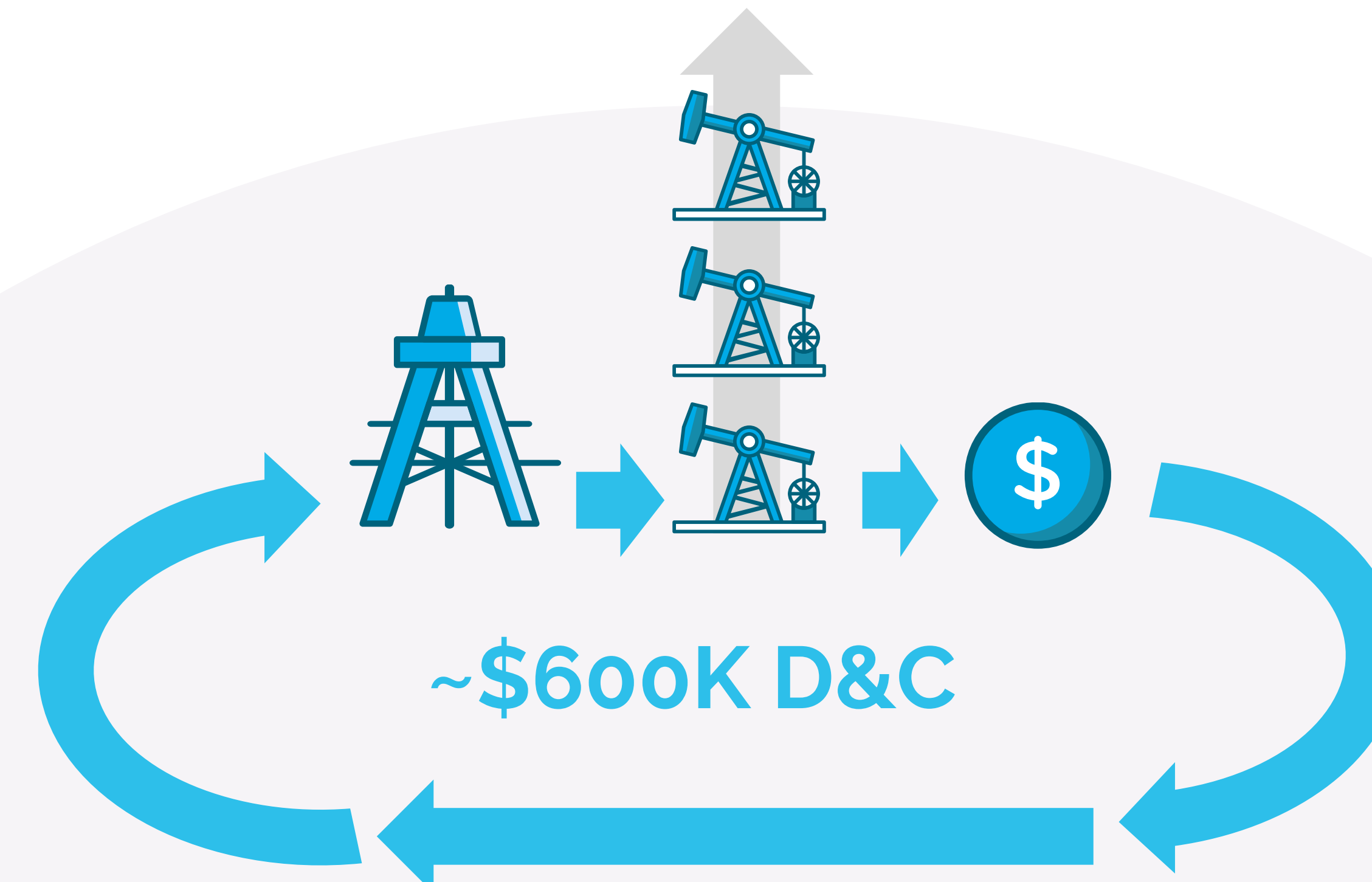
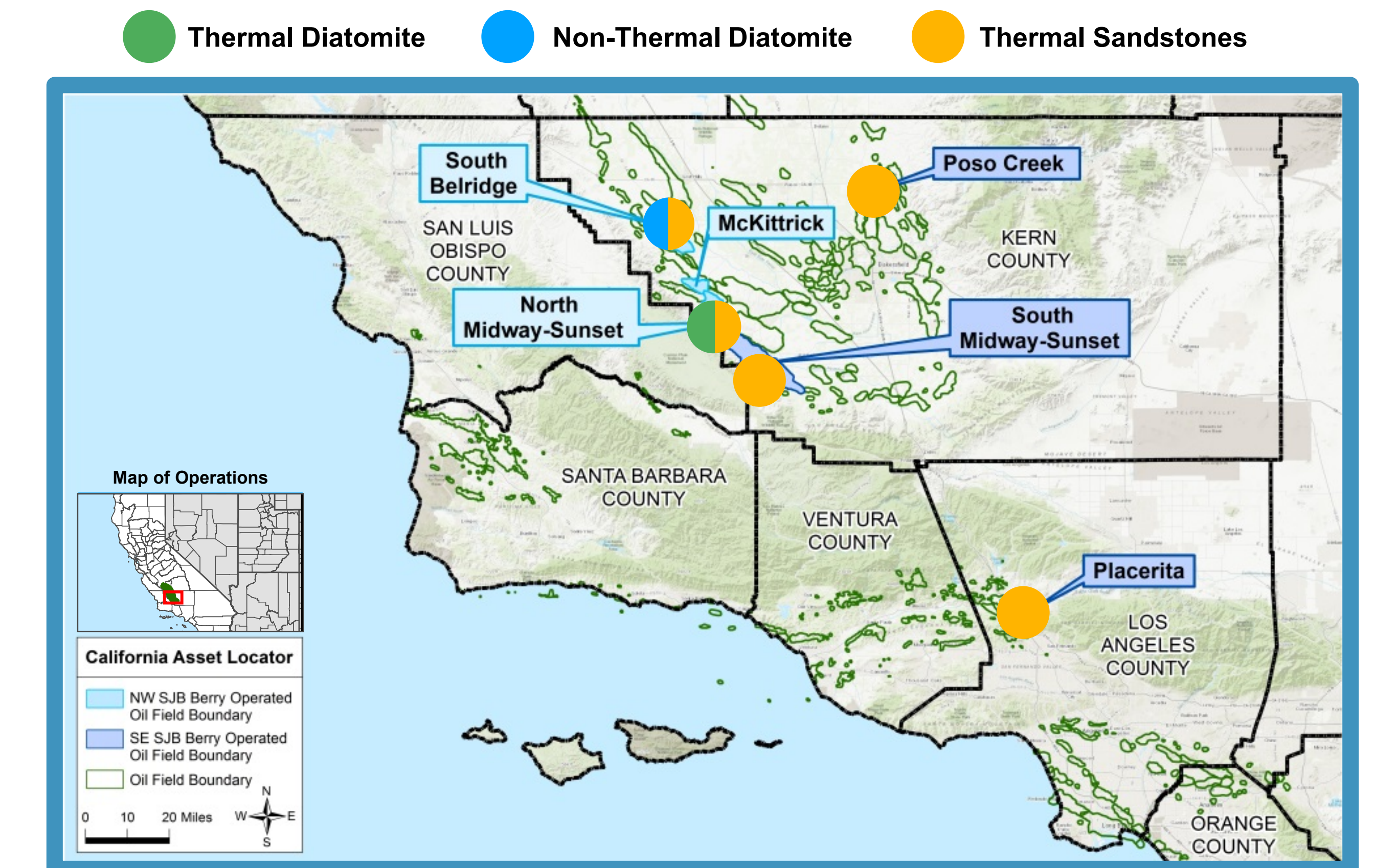


TYPE CURVE

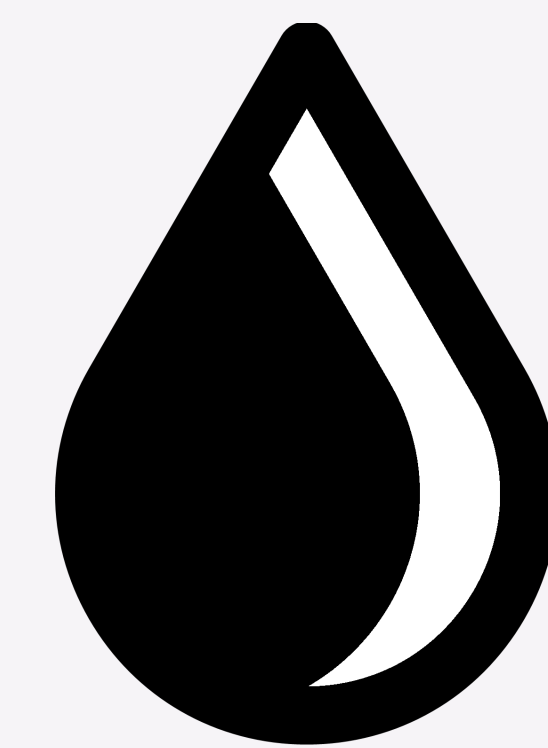
Non-Thermal Diatomite



MAP OF OPERATIONS



Repeatable – Low Geologic and Drilling Risk

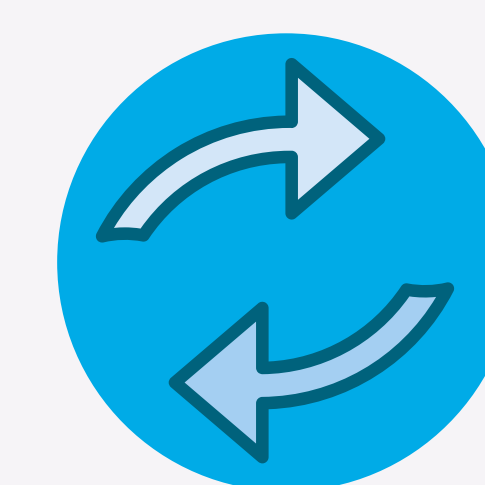
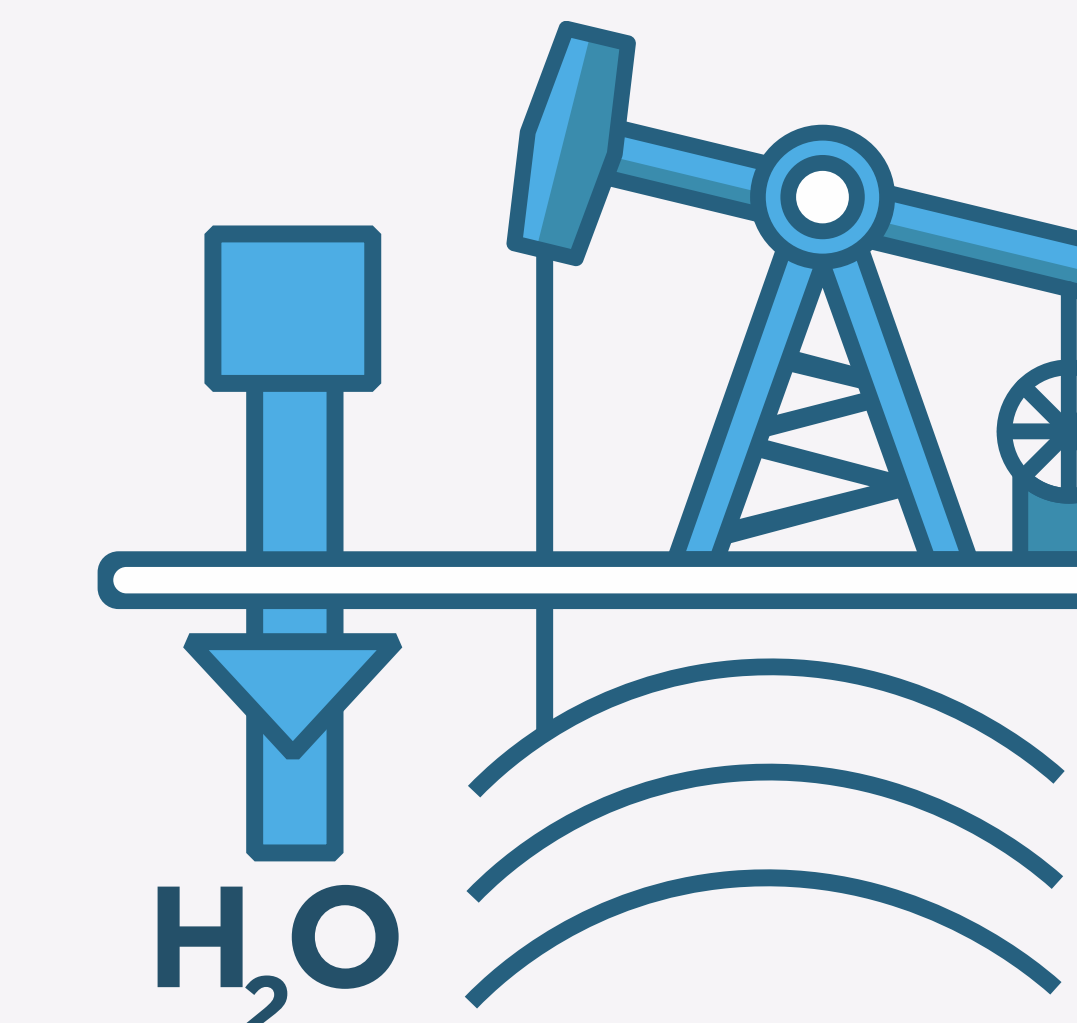


500 Acres with 460 mmbo in place¹

¹Company Estimate

Non-Thermal Diatomite

- Large oil resource
- Under developed by others
 - Well down spacing
 - Hundreds of locations



Simple, repeatable and quick

WELL DEPTHS

1,000' to 3,000'

Berry California Well Stimulation



Typical Shale Stimulation



Vertical
300,000 pounds
150,000 gallons
Up to 4 pumps
Up to 3,000 horsepower
\$600,000

Sources: Berry Petroleum

Well Orientation
Sand
Fluid
Equipment
D&C cost

Multiple times larger

Horizontal
50x
100x
3-10x
10-20x
15,000,000 pounds
15,000,000 gallons
Up to 25 pumps
Up to 40,000 HP
\$5MM – \$10MM

Sources: Wells Fargo and Morgan Stanley industry reports

Non-Thermal Diatomite
Hill Diatomite

Well Type
Vertical

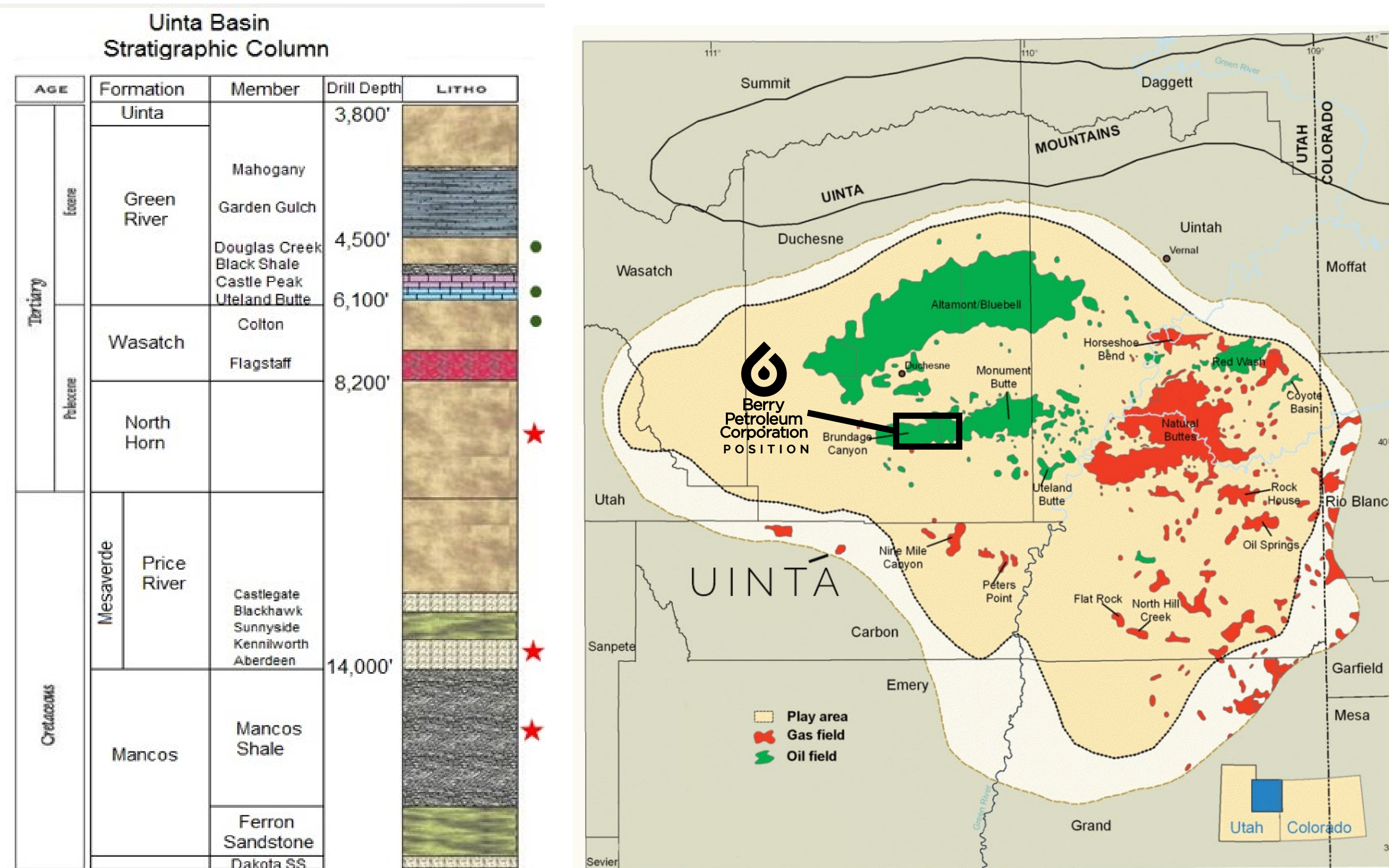
Completion type
Low intensity hydraulic stimulation

Permits
UIC / Drilling / AE/WST

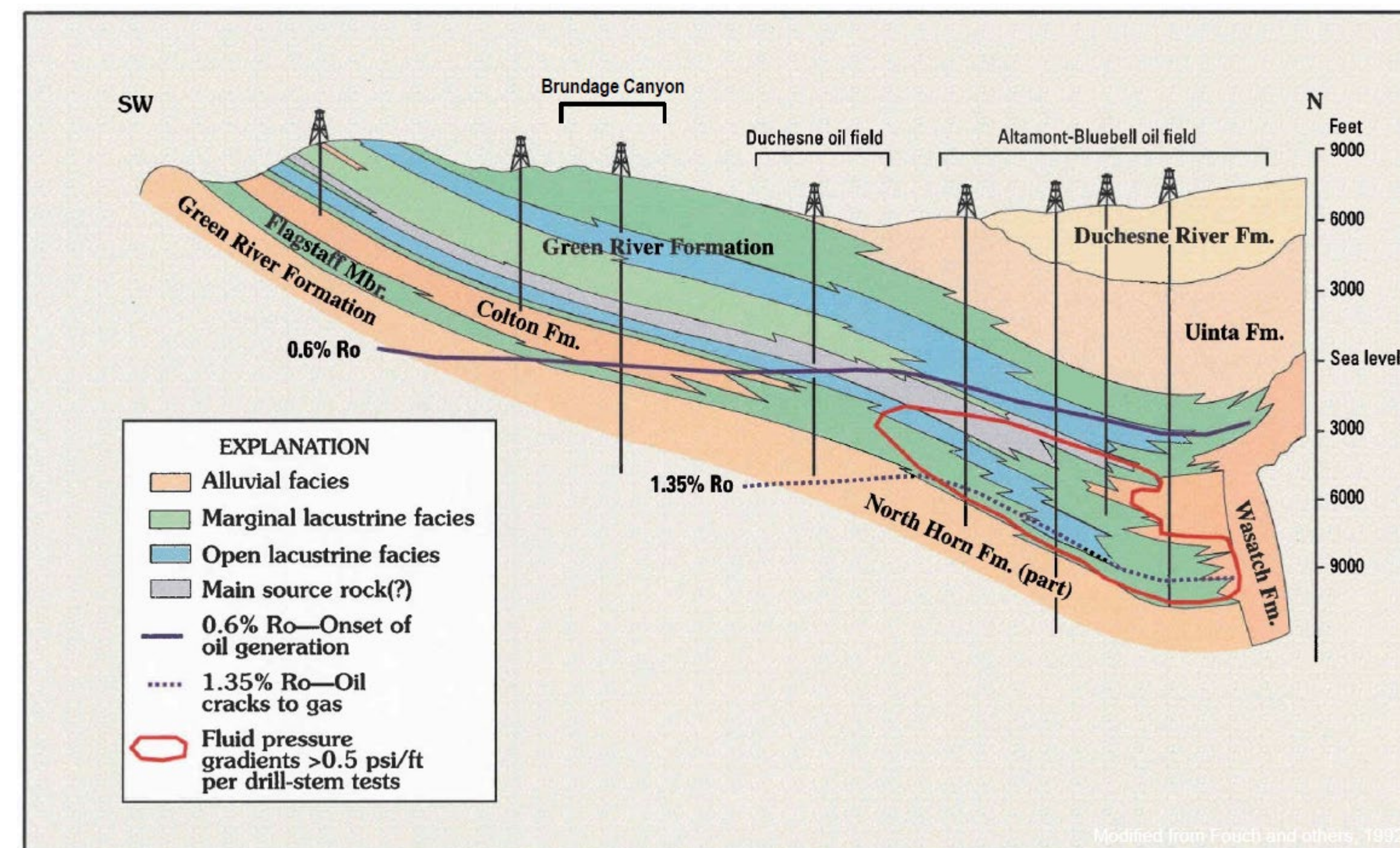
Stimulation Type
Waterflood

ROCKIES

UINTA LOCATION AND STRATIGRAPHY



REGIONAL GEOLOGY OVERVIEW



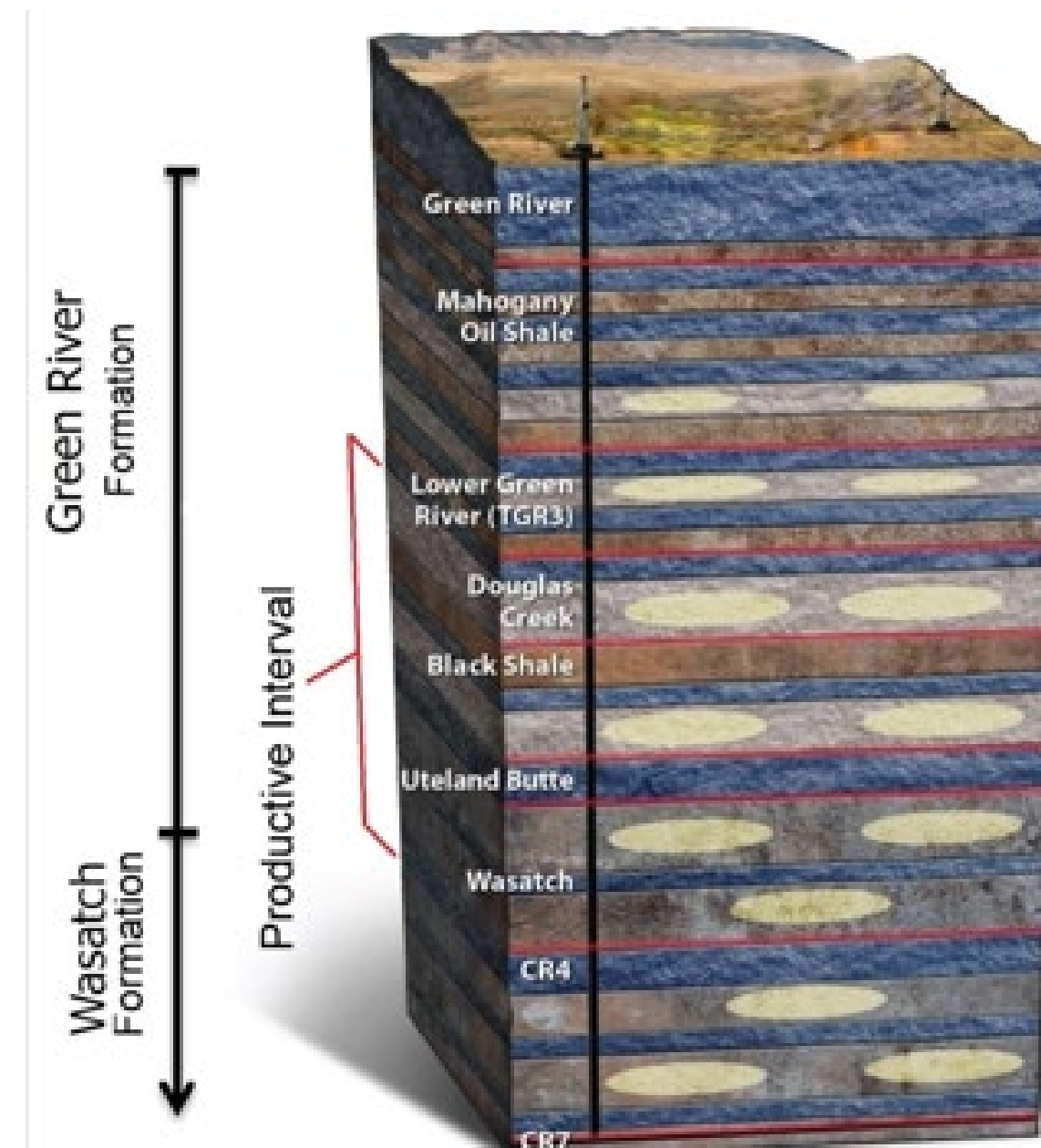
Productive members of the Lower Green River Formation include:

- Garden Gulch
- Douglas Creek
- Black Shale
- Castle Peak
- Uteland Butte

Production from the Wasatch Formation is usually found within the upper 800'

Main Reservoirs consist of sandstones that were deposited in distributary channel and mouth bar environments resulting in a complex stratigraphic setting with multiple, vertically "stacked," lenticular beds

Secondary reservoir targets include carbonate beds within the Castle Peak and Uteland Butte Members



YELLOW, BLACK, AND GREEN WAX

Lower Green River (Black wax)

- API gravity 35 Degrees, pour point of 90 degrees

Wasatch (Yellow Wax)

- API gravity 42 Degrees, pour point of 120 degrees



Added Valuable PUDs through 2018 drilling

38

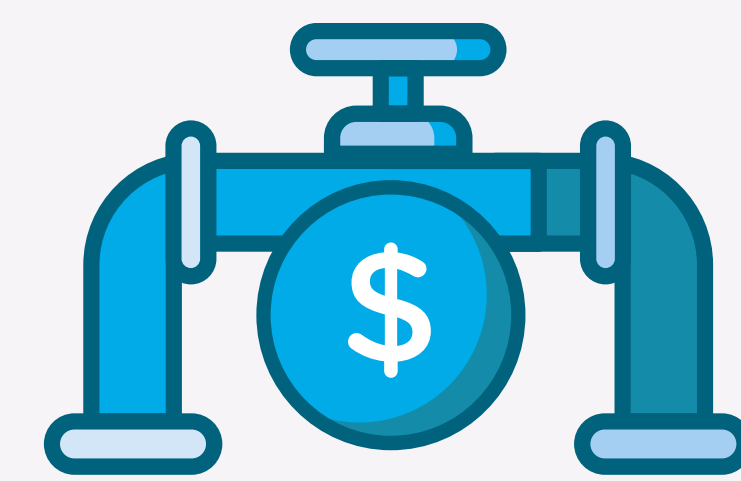
New PUD Wells

90

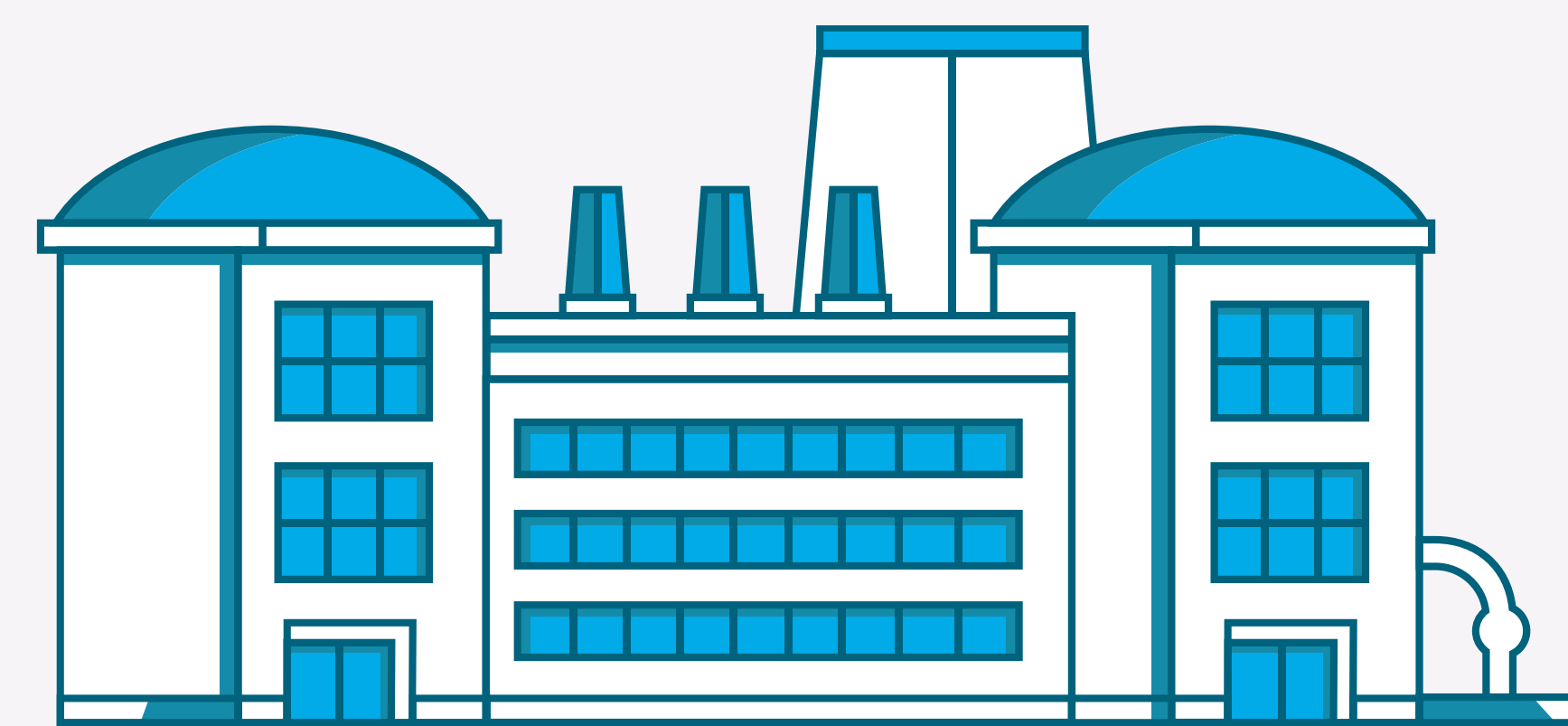
Permits ready to drill

8

Wells Drilled in 2018



Takeaway capacity and pricing improving



PICEANCE GAS FACTORY



2018 Drilling program delivered, setting the stage for future development.

- Better than expected well performance
- Valuable reservoir data

INFRASTRUCTURE IN PLACE FOR DEVELOPMENT

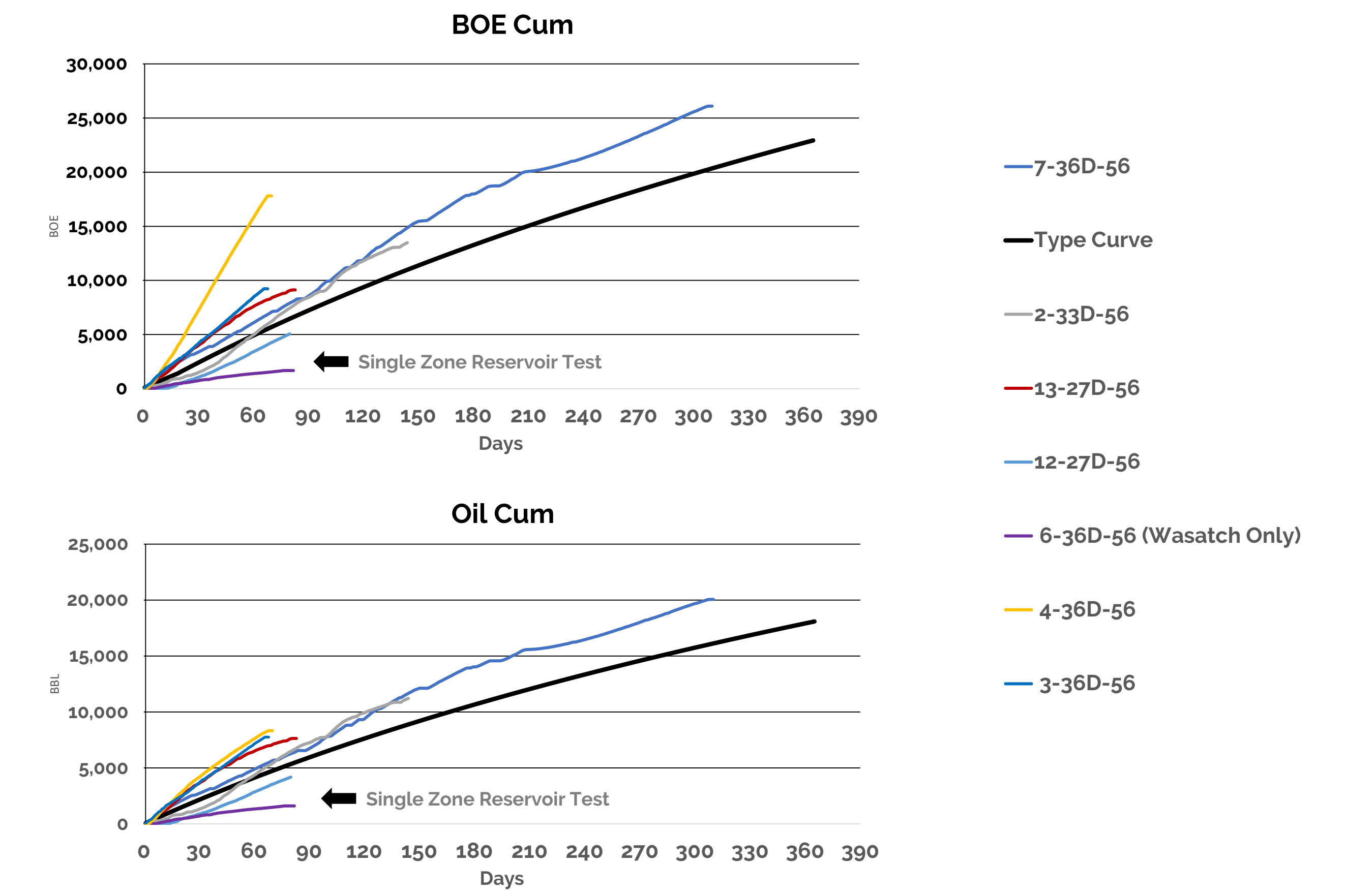
Gathering System

- 275 Miles low pressure poly lines
- 6 compressor stations with plug in ability to triple capacity
- 20 miles of high pressure steel line

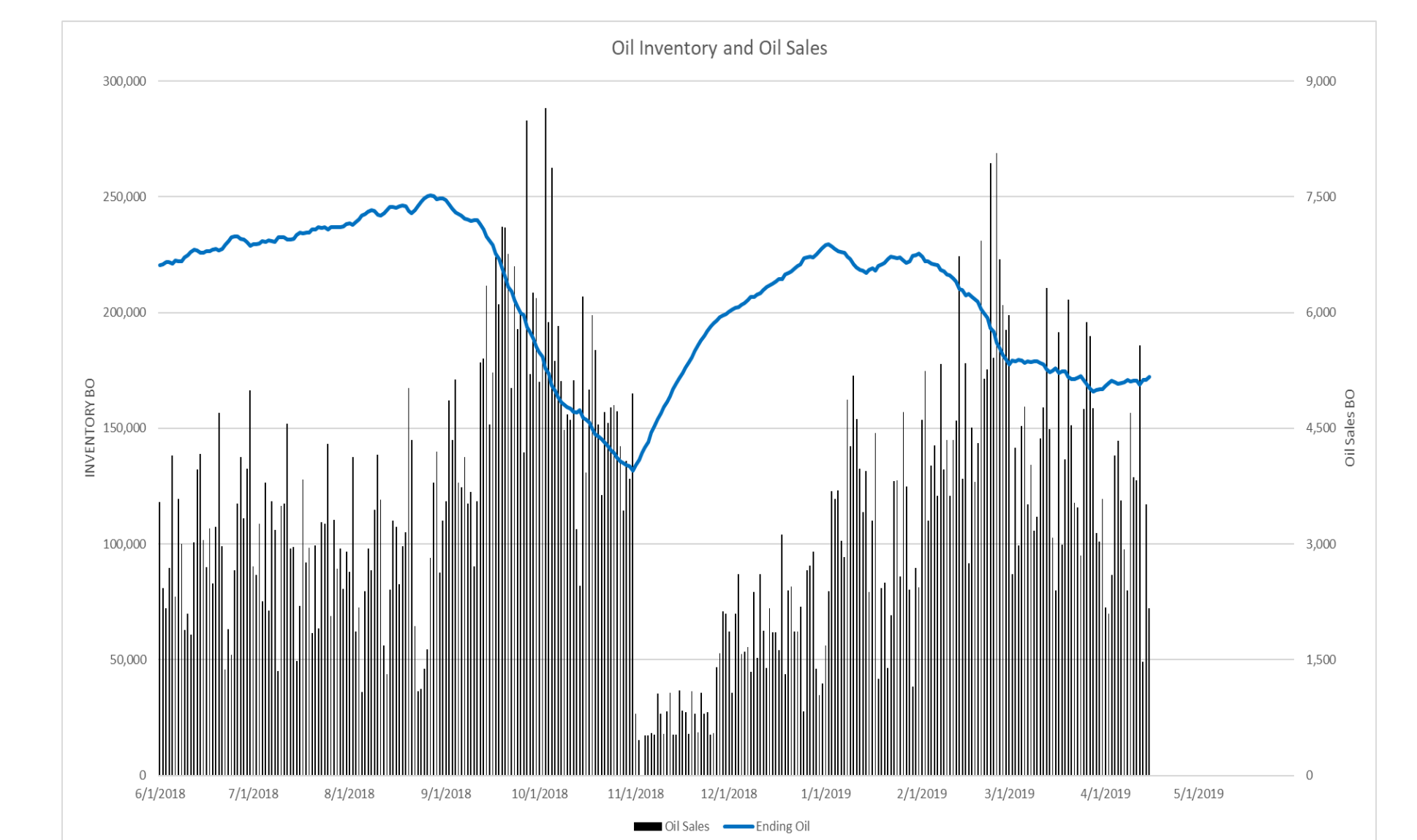
Processing

- Berry owned and operated NGL refrigeration plant capable of double current capacity.
- Recovers Y-Grade product sent for third party fractionation
- Currently recovering 500 Bpd
- 14 MMcfd firm third party processing contract
- 22 mile sales line in joint venture with Ute tribe

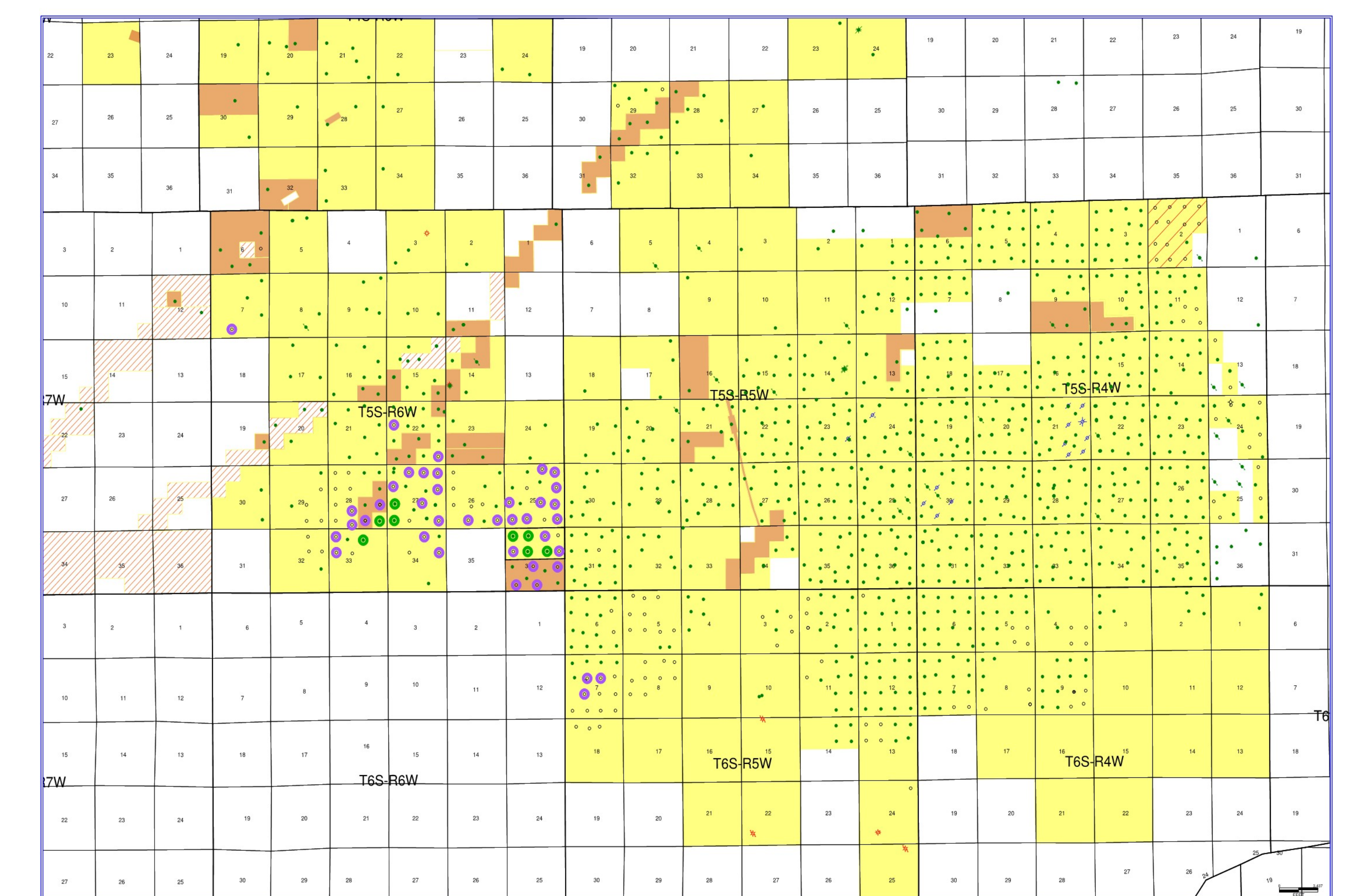
2018 SETTING STAGE FOR GROWTH



OIL MARKET IMPROVING



INVENTORY FOR CONTINUED DEVELOPMENT

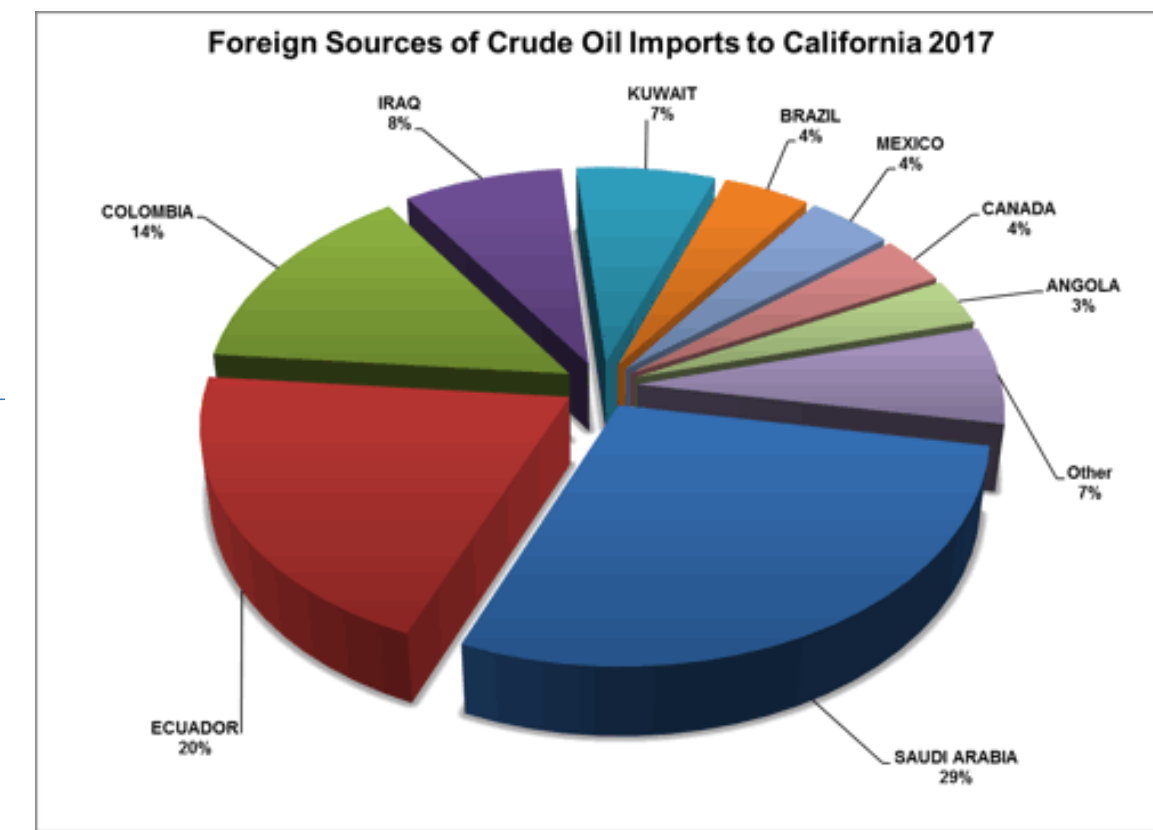
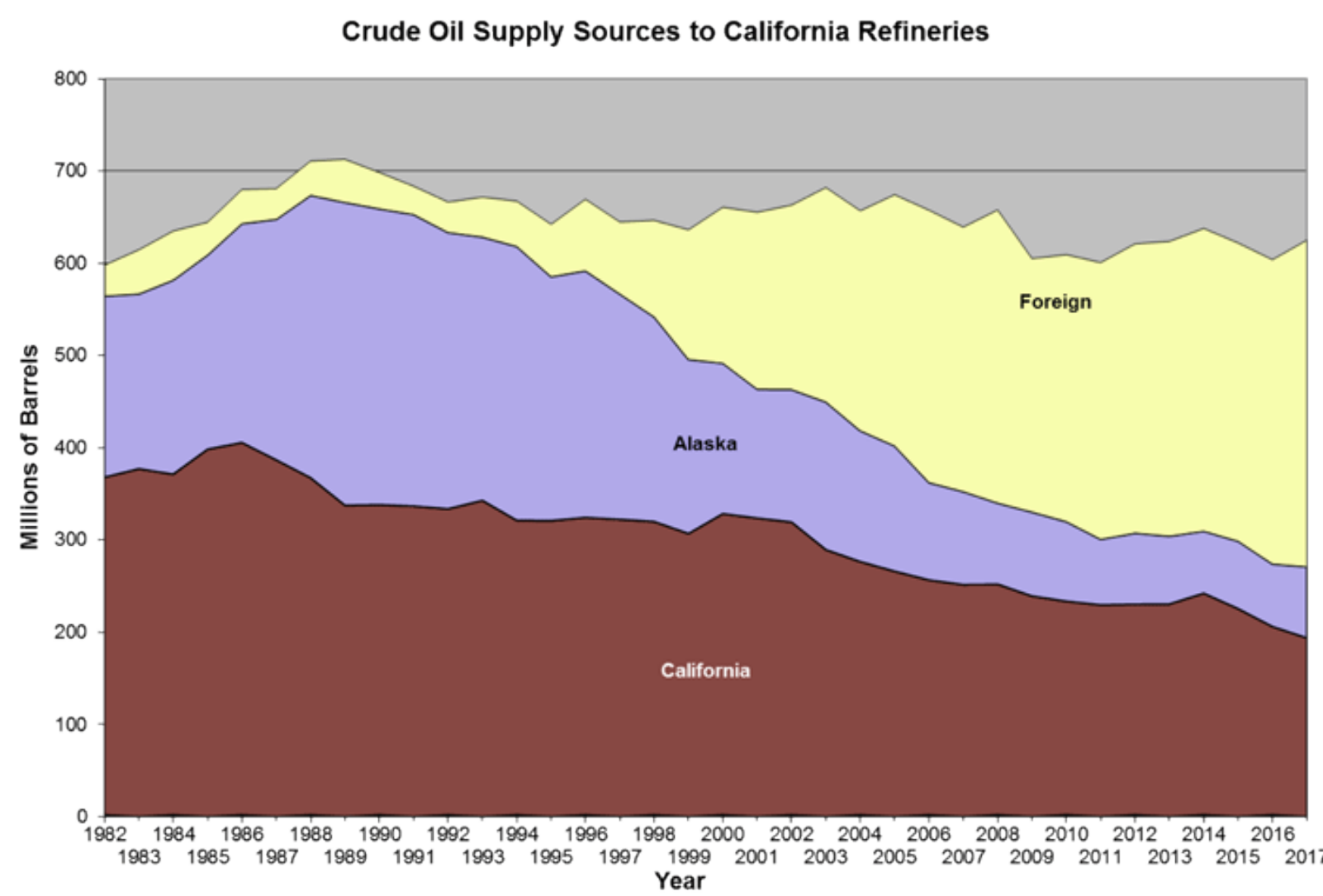




SAN JOAQUIN BASIN GEOLOGY

CONVENTIONAL FIELDS RESPOND TO INVESTMENT

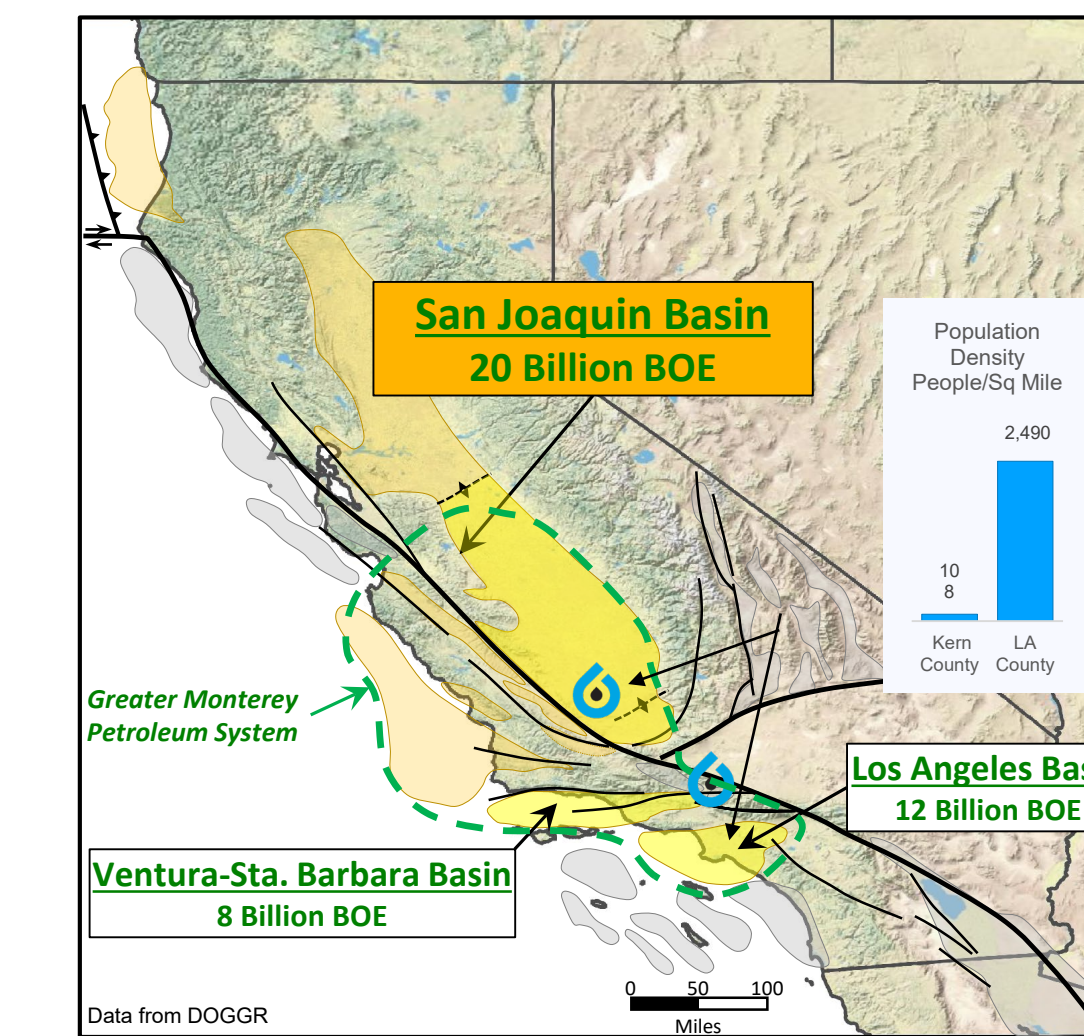
CALIFORNIA DEMAND AND OIL PRODUCTION HISTORY



Why Is California a Great Place to Produce Oil?

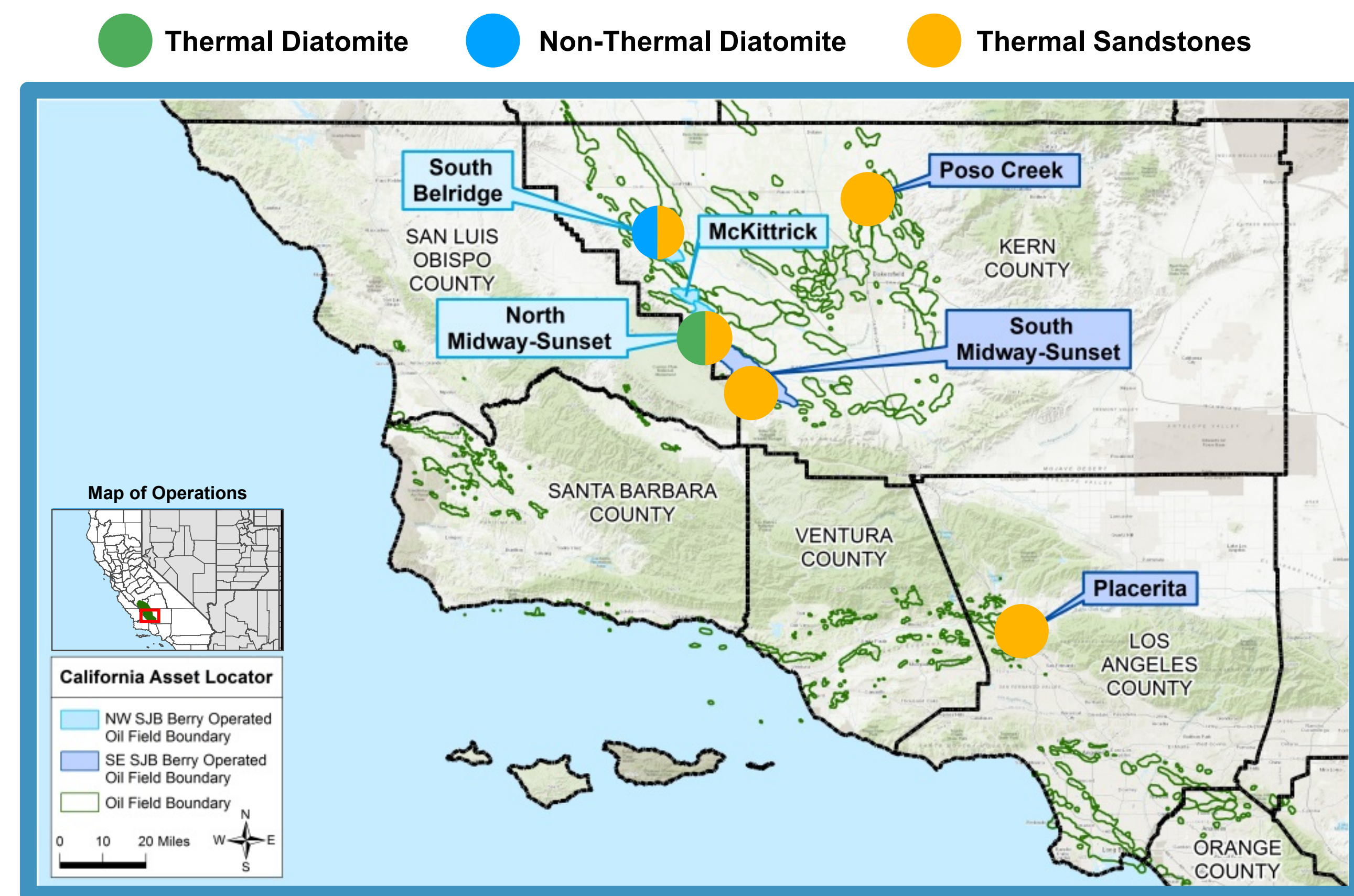
- World-class petroleum systems
- Abundant oil-prone, shallow, conventional opportunities
 - Low risk & repeatable
- California economy - demand
 - Brent pricing
- Stable cost structure
- Reservoirs respond to investment

CALIFORNIA: A WORLD CLASS PETROLEUM PROVINCE



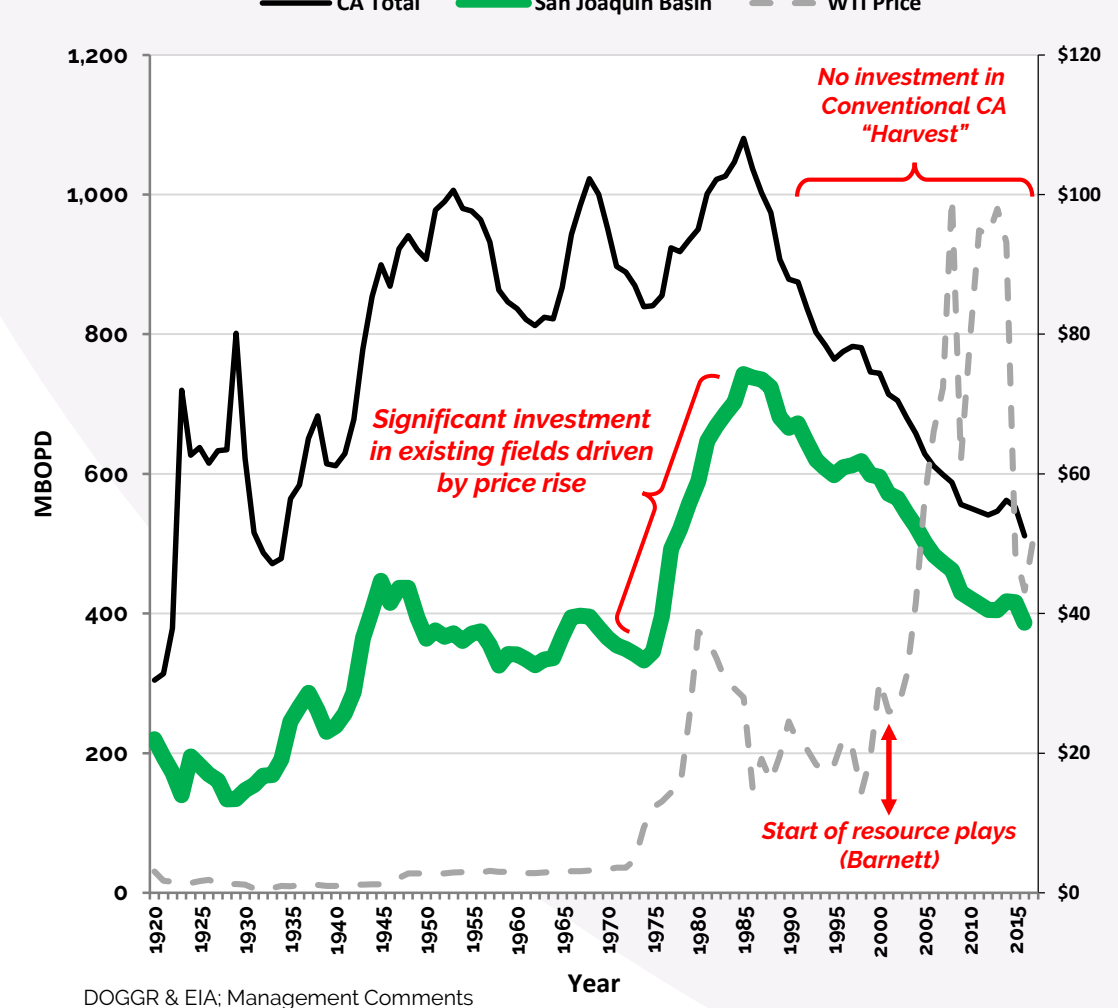
- **Strong technical fundamentals**
 - World-class, super-charged oil province
 - 44+ BBO discovered
 - 3 Super basins (EUR > 5 BBO)
 - San Joaquin - 45% of CA total EUR
- **Commercial Drivers**
 - CA is 5th largest economy - continued demand for product
 - Brent pricing
 - Basins respond to investment
- **The Berry Advantage**
 - West side of San Joaquin Basin
 - Conventional oil play
 - Focus on development within established field boundaries

MAP OF OPERATIONS

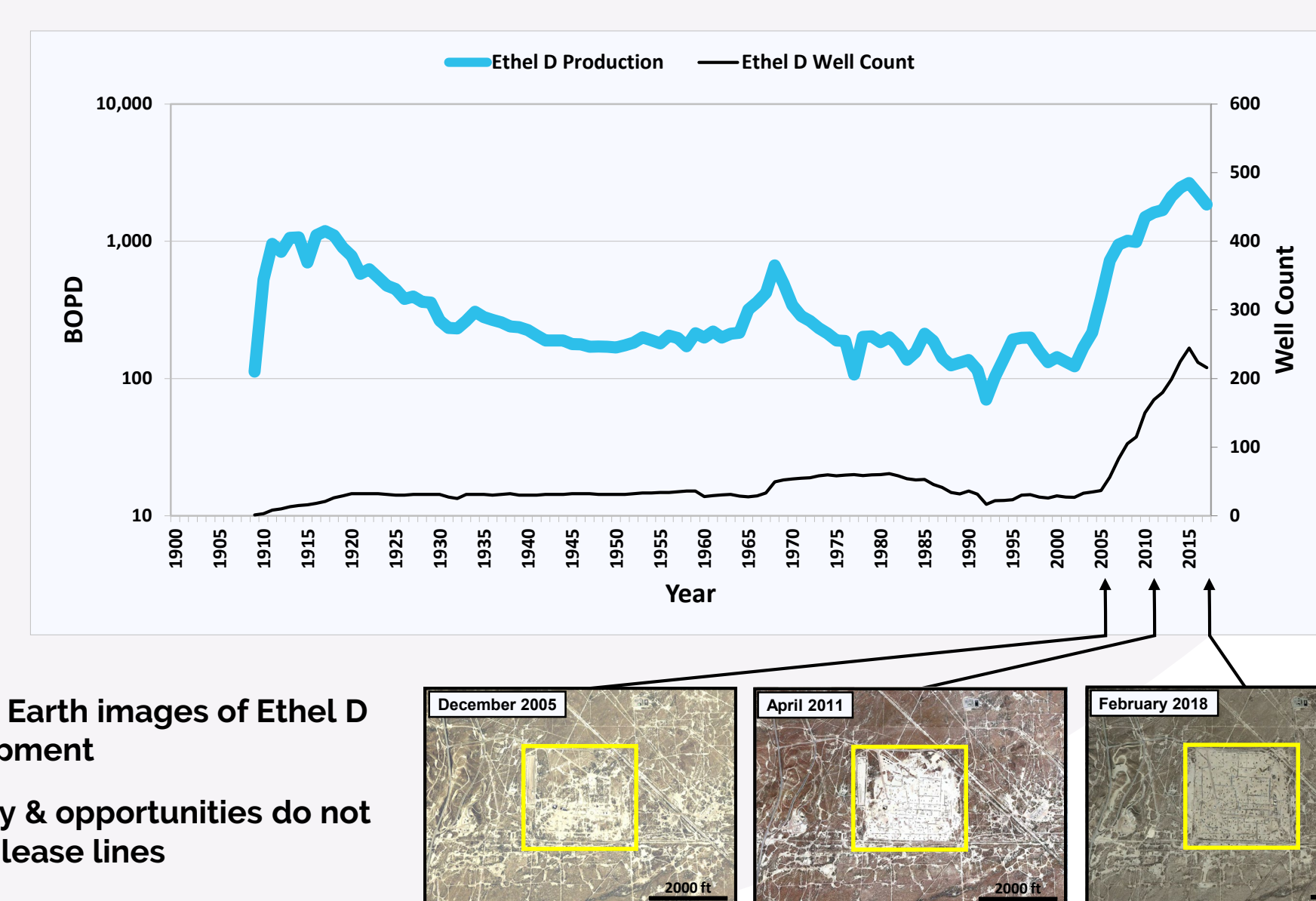


Berry Is Positioned to Generate Value in CA

San Joaquin Basin Production History

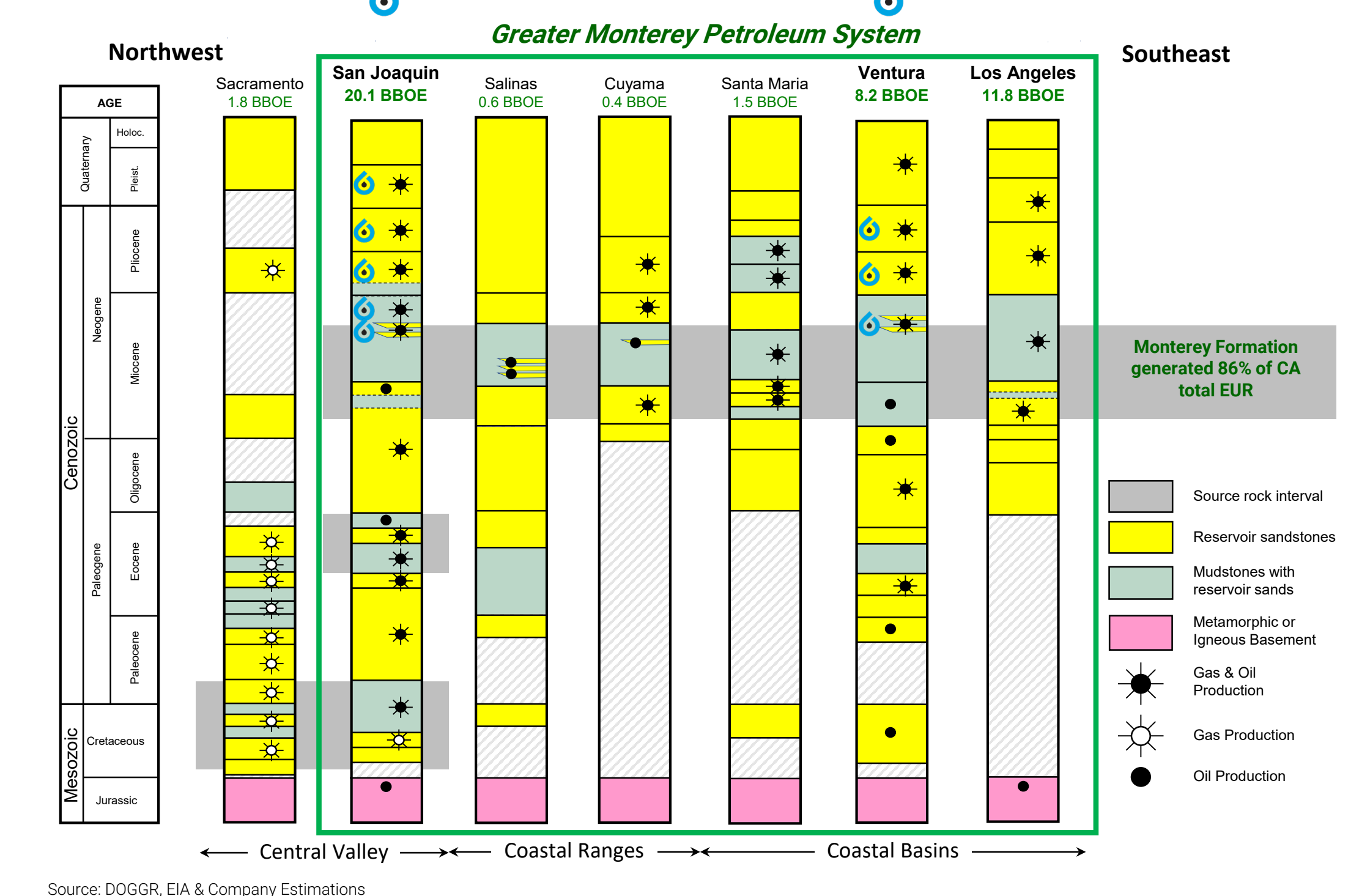


Berry's Ethel D Property: Creating Value in a 100+ year old field

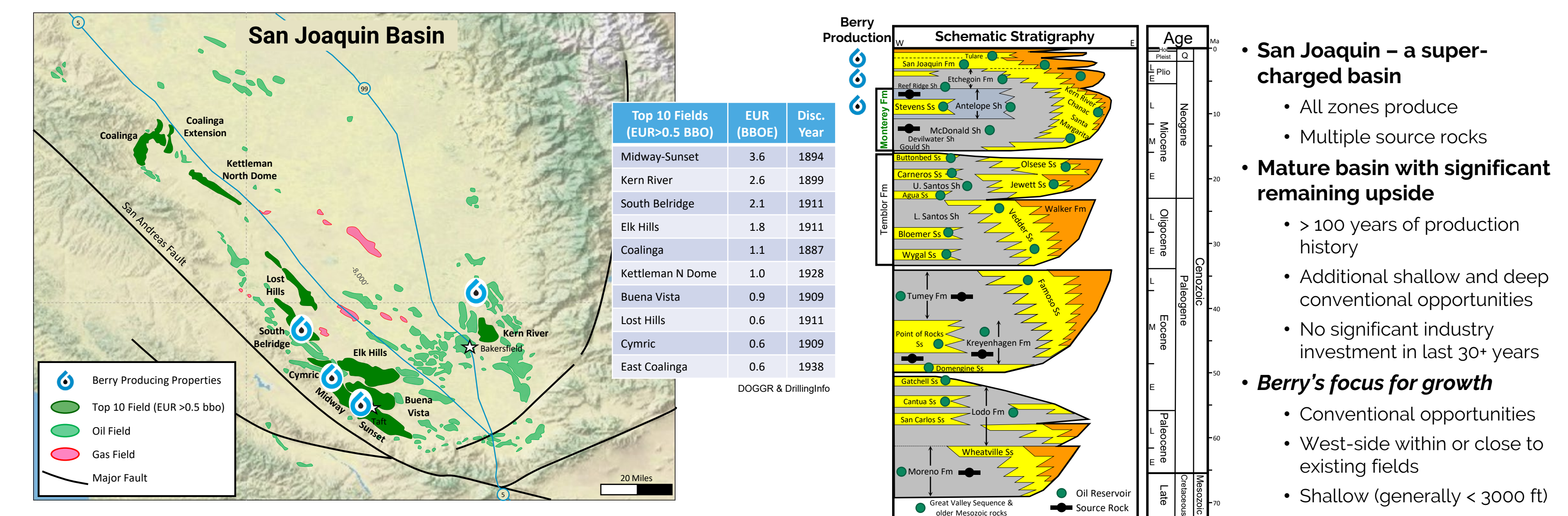


- Google Earth images of Ethel D development
- Geology & opportunities do not stop at lease lines

SCHEMATIC CROSS SECTION

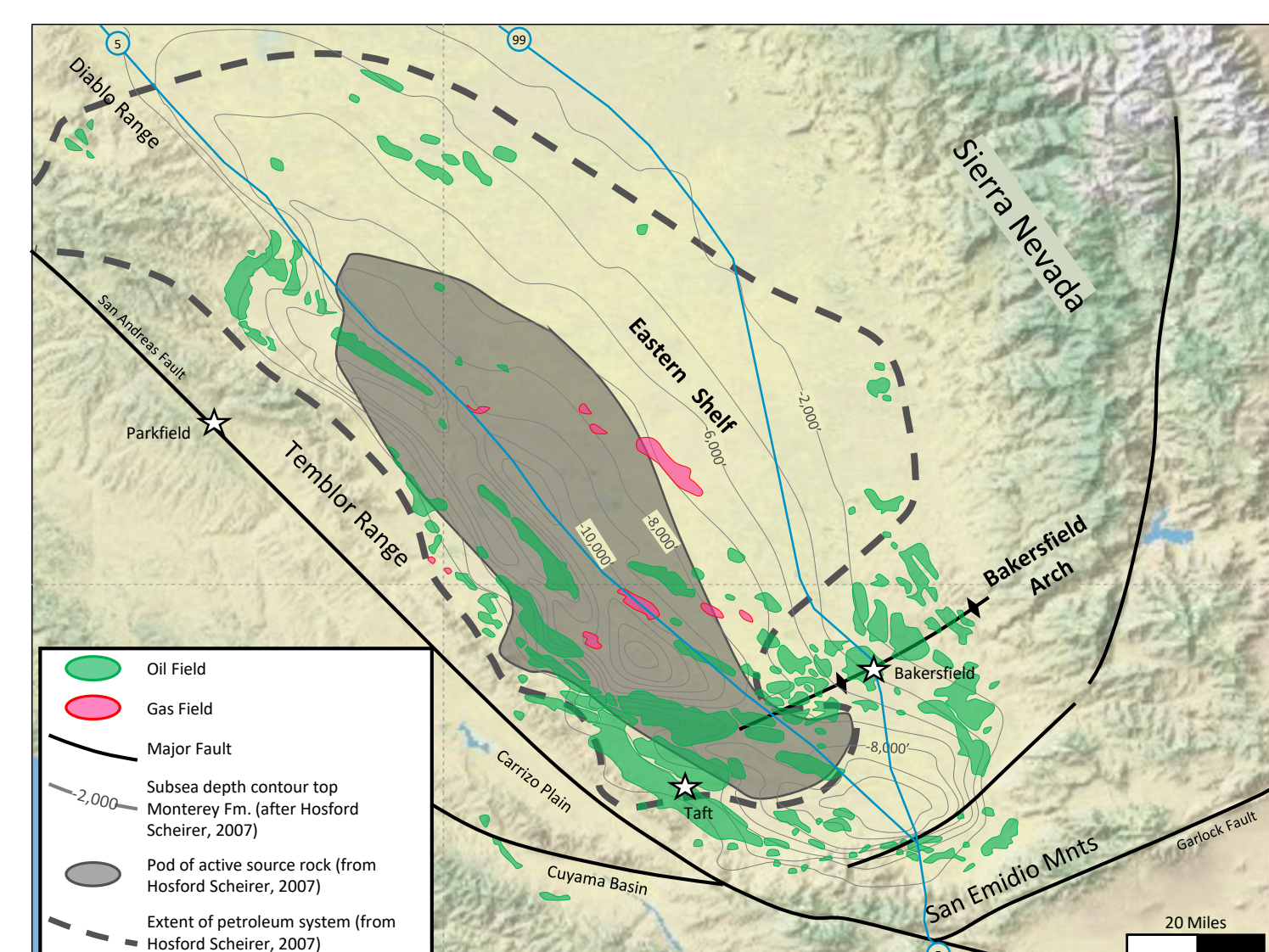


SAN JOAQUIN BASIN



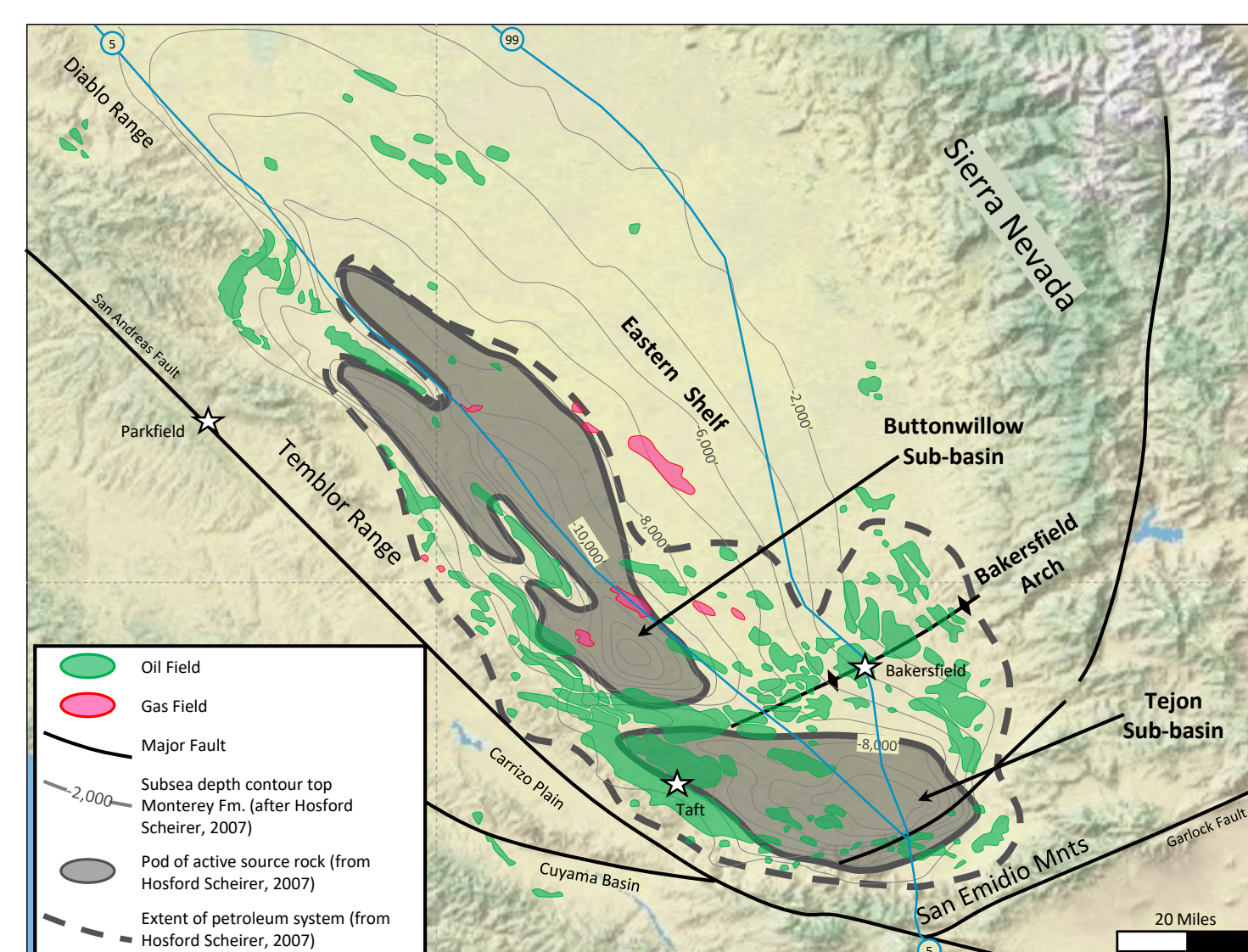
SAN JOAQUIN BASIN PETROLEUM SYSTEMS

Eocene (Kreyenhagen & Tumey Fms.) Petroleum Systems



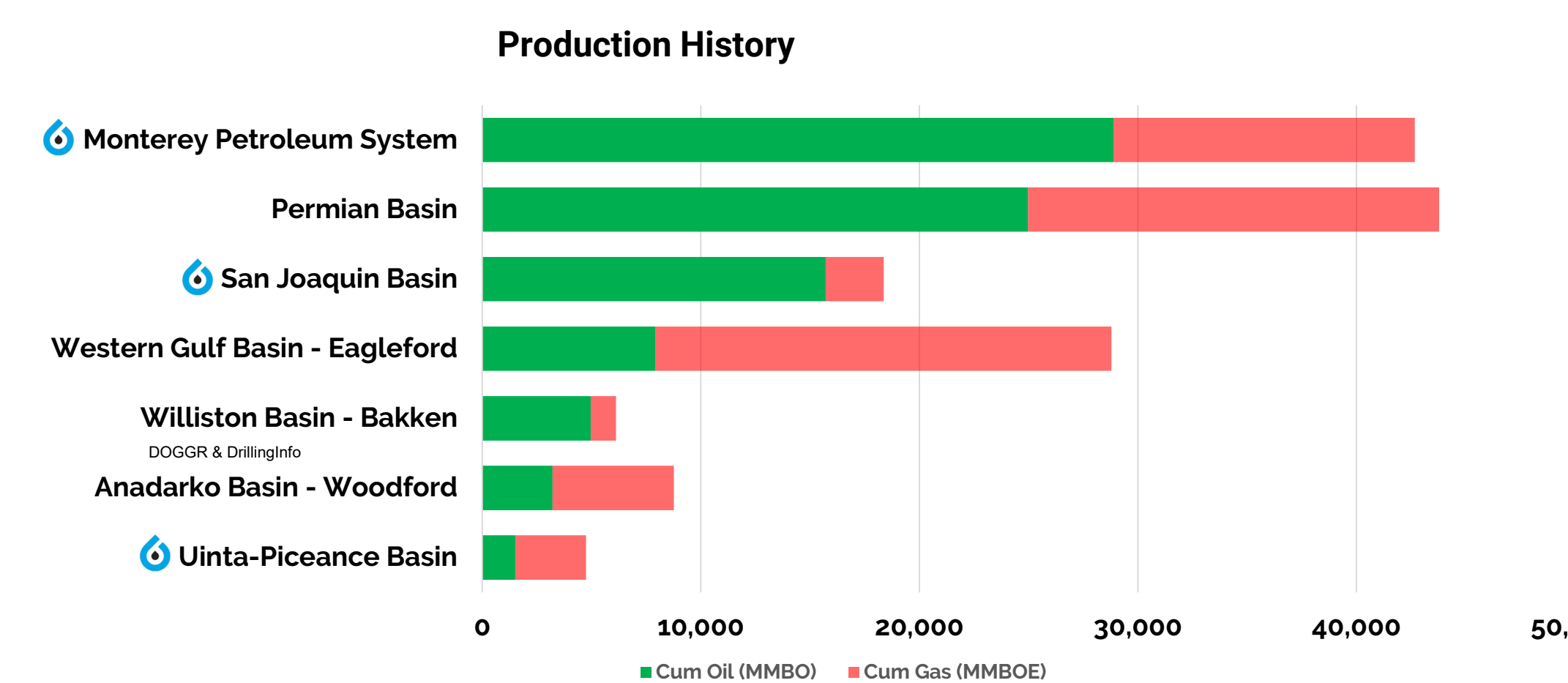
- **Depositional environ.**
 - Deepwater
 - Semi-confined forearc
- **Lithologies**
 - Bio-siliceous shales
 - Deep marine mudstones & sandstones
- **Thickness**
 - 400-800 ft
- **Source rock type**
 - Type II
 - TOC_g: 1.0-3.0 wt. %
 - HI_g: 100-450 mg/g TOC
- **Expulsion Timing**
 - Onset 5.5 ma (Pliocene)

Miocene Monterey Fm. Petroleum Systems



- **Depositional environ.**
 - Deepwater
 - Semi-confined basin along transform margin
- **Lithologies**
 - Bio-siliceous shales
 - Deep marine sandstones
- **Thickness**
 - 500-4,000 ft
- **Source rock type**
 - Type II
 - TOC_g: 2.0-4.5 wt. %
 - HI_g: 200-400 mg/g TOC
- **Expulsion Timing**
 - Onset 4.7 ma (Pliocene)

BERRY'S FOCUS ON 'CONVENTIONAL CALIFORNIA'



- Production history establishes Monterey petroleum system as a world-class petroleum province
- Conventional opportunities are abundant and accessible in the San Joaquin Basin
- Unconventional resource play revolution bypassed CA
- Oil-prone with favorable pricing
- Production will respond and grow with investment