

Cromer Unit No. 4
2020 Annual EOR Report

Executive Summary

In 2020, oil production in Cromer Unit No. 4 averaged 40.7 m³/d (256 bbl/d) totaling 14.9 e³m³ (93.7 mbbbl). Annual production declined by 33.1% from 2019 to 2020, using the yearly averages. Comparing December 2019 to December 2020 the production declined by 45.8%. By the end of 2020 cumulative oil production from the Cromer Unit No. 4 was 105.1 e³m³ (660.8 mbbbl). The unit is currently still under primary production and has had no water injected into the producing formations.

In December 2020 there were 16 producing oil wells and no active water injectors in the unit.

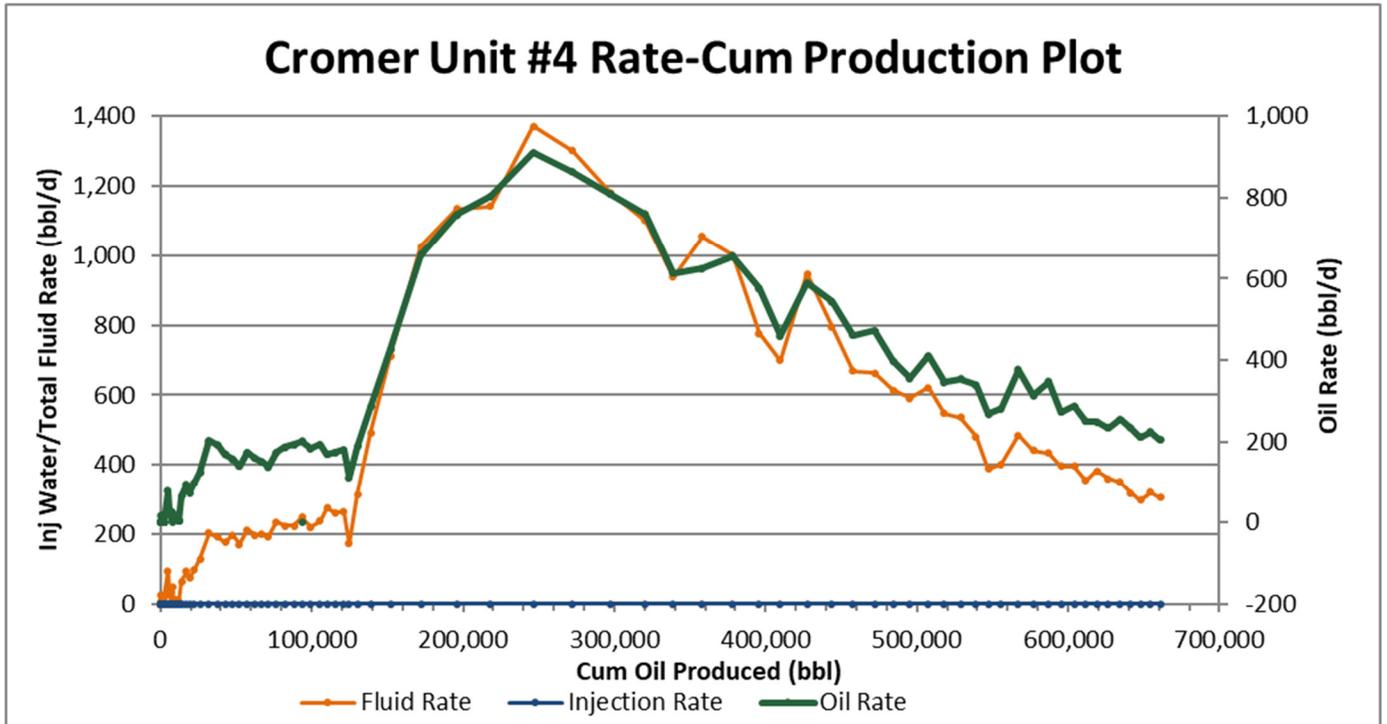
Discussion

The Cromer Unit No. 4 was created as a unit in 2018, with the intention of further development through the implementation of a waterflood scheme.

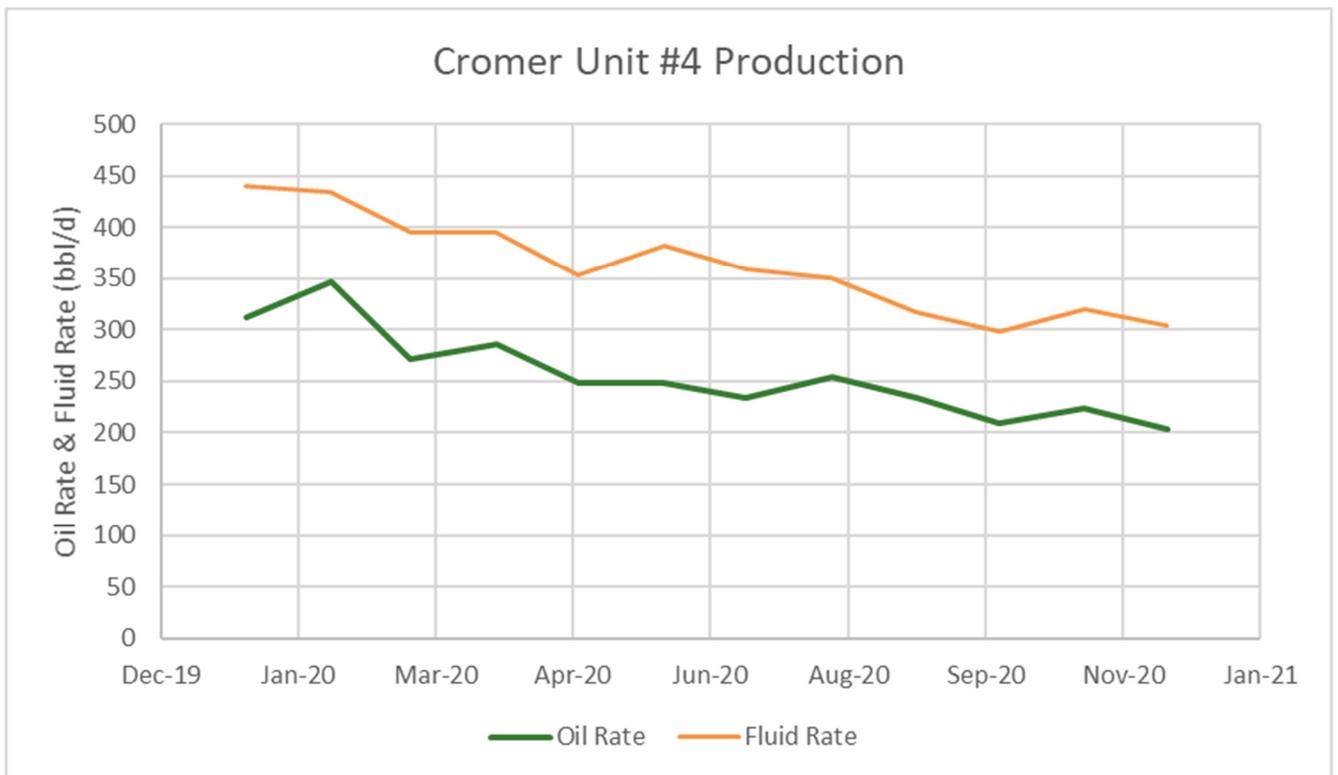
In 1954, one vertical producer was drilled, resulting in minimal recovery and another vertical was drilled a year later and left dry and abandoned. In 2006, a relatively unsuccessful open hole horizontal well was drilled. In the following years Corex was active drilling horizontal wells and completing with hydraulic fractures, resulting in much more successful wells. The intention is to progress to secondary recovery methods after a period of primary production. This unit has a low recovery factor and further development through waterflood will increase the recovery. In 2020, the producing WOR was $0.4 \text{ m}^3/\text{m}^3$.

In 2020 there were no significant events to report.

Cromer Unit #4 – Rate vs Cum Oil Production



Cromer Unit #4 – Rate vs Time



2020 Reservoir Pressure Surveys

No pressures have been taken in this unit since the history of its inception. It is estimated that the initial reservoir pressure is around 7,500 kPa and the bubble point around 2,000 kPa. With the recent rapid development in the unit and the inter well spacing the reservoir pressure is likely dropping significantly. When effects of a decline in pressure is seen, the implementation of a waterflood will be advantageous. Due to the nature of the rock in this area and the lower permeability recording accurate pressures are difficult.

2020 Well Servicing

UWI	Unit	Licence	Start Date	Job Category	Primary Job Type
103/16-24-009-28W1/00	CROMER #4	10377	2020-07-09 15:00	Completion/Workover	Pump Repair
103/16-24-009-28W1/00	CROMER #4	10377	2020-10-30 13:00	Completion/Workover	Pump Repair
100/05-13-009-28W1/00	DNU / CU4	11252	2020-01-27 10:30	Completion/Workover	Clean-out