

Abstrack

X1 and X2 fields are one of the oil fields located in South Sumatra, Jambi province to be precise.

Petrochina signed a contract on 27 February 1993 with an initial concession area of 8,214 km² and now it is 1,642.8 km². Petrochina Has a contract validity period of 30 years and will expire on February 27, 2023.

The oil and gas fields in Tanjung Jabung are located in several formation sections such as Betara, Tungal, Geragai and Kabul. Some of them are already in production and some are still in the exploration stage. From a series of these formations have characteristics in each formation.

Evaluation of log data is divided into qualitative and quantitative. Qualitative evaluation includes analysis of lithology and porous zones, as well as analysis of fluid content. Lithology analysis using the gamma ray log method to determine layers with radioactive content, SP log to determine shale or non-shaly layers.

The total production of the West Tanjung Jabung oil and gas field is 18,200 BOPD and the total oil is 8,850 BOPD and the total condensate is 9,350. BOPD. In UTAF 2 and 3 UTAF Original Oil In Place (OOIP) values calculated by the reservoir simulator model compared to OOIP volumetric calculations based only on the geological model show that a very good match is achieved between OIIP calculations by 2 (two) different methods. The OOIP results obtained were 8.732 MMSTB.

Keywords: *Reserves, Volumetric, DCA,TOW,OOIP*

ABSTRAK

Lapangan X1 dan X2 merupakan salah satu lapangan minyak yang terletak disumatera selatan, tepatnya diprovinsi Jambi.

Petrochina menandatangani kontrak pada tanggal 27 february 1993 dengan luas konsesi awal 8.214 KM² dan sekarang seluas 1.642,8 km². Petrochina Memiliki masa berlaku kontrak selama 30 tahun dan akan berakhir pada tanggal 27 Februari 2023.

Lapangan migas di tanjung jabung terletak di beberapa bagian formasi seperti betara, tungkal, geragai, dan kabul. Diantaranya sudah berproduksi dan sebagian masih tahap eksplorasi. Dari rangkaian formasi tersebut memiliki karakteristik disetiap formasinya.

Evaluasi data log di bagi menjadi kualitatif dan kuantitatif. Evaluasi kualitatif meliputi Analisa lithologi dan zona porous, serta Analisa kandungan fluida. Analisa Litologi metode *gamma ray* log untuk mengetahui lapisan dengan kandung radioaktif, SP log untuk menentukan lapisan *shale* atau *non shaly*.

Total produksi lapangan migas tanjung jabung barat sebesar 18.200 BOPD dan total oil 8.850 BOPD dan total kondensat 9.350. BOPD.

Dalam UTAF 2 dan 3 UTAF *Original Oil In Place* (OOIP) nilai dihitung dengan model simulator *reservoir* dibandingkan dengan perhitungan volumetrik OOIP hanya didasarkan pada model geologi menunjukkan bahwa pertandingan yang sangat baik dicapai antara perhitungan OIIP oleh 2 (dua) metode yang berbeda. Diperoleh hasil OOIP sebesar 8,732 MMSTB.

Kata Kunci: *Reserves, Volumetric, DCA, TOW, OOIP*