

Why is Changqing oilfield the largest natural gas industrial base in China?

Natural gas development shifted from low-permeability gas reservoirs to tight gas reservoirs, and annual gas production reached $380 \times 10^8 \text{ m}^3$, making Changqing Oilfield the largest natural gas industrial base in China.

What does Changqing oilfield stand for?

PetroChina Changqing Oilfield Company (Changqing Oilfield) recently achieved a milestone, marking a cumulative production of over 1 billion tons of oil equivalent. Its operations injected robust impetus to national energy security and coordinated development of regional economy.

How much oil does Changqing oilfield produce a year?

With a yearly oil production of $2432 \times 10^4 \text{ t}$ and gas production of $346.8 \times 10^8 \text{ m}^3$, or oil/gas equivalent production of $5195 \times 10^4 \text{ t}$, Changqing Oilfield became another landmark in the development history of China's petroleum industry.

Does Changqing oilfield have a regional advantage?

Moreover, Changqing Oilfield has an obvious regional advantage. At present, the gas province has 10 outbound pipelines, which, together with two West-to-East Gas Pipelines, constitute China's important production base of oil and gas and onshore natural gas pipe network hub.

Where is Changqing oilfield located?

Changqing Oilfield is located in the Ordos Basin, which is characterized by "low permeability, low pressure, and low abundance". Thus, it faces some of the most daunting challenges in the world for exploration and production. At Changqing Oilfield, technological innovation is considered as the primary driving force for boosting production.

What is PetroChina Changqing oilfield?

PetroChina Changqing Oilfield Company (hereinafter referred to as Changqing Oilfield) built the largest oil and gas production base of China in the Ordos Basin in 2013, achieving the yearly natural gas production of $375 \times 10^8 \text{ m}^3$ in 2015.

The PetroChina Changqing Oilfield Company made a significant breakthrough by discovering and verifying the existence of the billion-ton Qingcheng shale oil field in the seventh member of the Yanchang Formation (Chang 7 Member) mud shale system of the Ordos Basin, accumulating a proven shale oil reserve of $1.052 \times 10^9 \text{ t}$ from 2019 to 2021 [[15], [16], [17]].

: , ??, ?2005, (0.3mD), ????, ...

Practice of Advanced Water Injection. Ran Xinquan, in Advanced Water Injection for Low Permeability Reservoirs, 2013. Conclusions. Fifty years have passed since the Changqing Oilfield Company began its petroleum exploration and development in the Ordos Basin. Great breakthroughs have been made between the late 1980s and the beginning of this new ...

Project Full Name:Key Technologies and Applications for the Construction of Qingcheng Shale Oil Smart Oilfield Company: Shale Oil Development Branch of PetroChina Changqing Oilfield Company Kunlun Digital Tech Co.,Ltd Awarded :Digital & Intelligent Technology(China). Standard: International Advanced Level. Project Number: ECF-2024 ...

Changqing oilfield built an oil and gas production capacity of over 10 million tonnes in 2022, and put 2,210 oil wells and 2,338 gas wells into operation throughout the year, according to ...

PetroChina Changqing Oil Field EOR CCUS scaled up its CO₂-EOR operations in July 2017, reaching 50,000-100,000 tonnes per annum of CO₂. The initial CO₂-EOR exploration ... By ...

As a key oil and natural gas infrastructure project, the Changqing oilfield Sudong 39-61 natural gas storage cluster was officially put into operation on Sunday. The facility has a designed...

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Ten-year energy storage period for both oil and gas The entire 1990s of the last century was a ten-year energy storage period for the Changqing Oilfield to combine oil and gas. Because before, there was a major breakthrough in the Ansai oil field discovered by the Saiyi well, and there was also a major breakthrough in

Safeguarding the national energy security is the new mission of workover operation development. (2) Production capacity: Production per well continues to decline, and the number of oil, gas and water wells climbs up year by year. ... the Changqing Oilfield Company has solved the key problems of window milling of inclined wellbore section of ...

At the same time, with resources as the core, Changqing Oilfield has implemented the project of increasing storage and production in the new area, integrated the application of ...

Changing Oilfield's first gas storage in Inner Mongolia. On June 26, Sudong 39-61 gas storage of PetroChina Changqing Oilfield Company became operational, and it is the first gas storage in Inner Mongolia. As a national key oil and gas infrastructure project during the 14th Five-Year Plan, Sudong 39-61 is the largest and the first digital gas ...

Changbei Block, part of Changqing Oilfield in the Ordos Basin, covers an area of 1,691 square kilometers in

the Ordos Basin and operated under an agreement with Shell Group since September 23, 1999. On January 1, 2016, CNPC took over its ...

In Changqing Oilfield, this technology completed open-hole logging at 107 horizontal wells with average single-well operation efficiency increasing by 50%. Crawler technology was used to complete logging operations at 87 horizontal wells, increasing per-well operation efficiency by 64% compared with the conventional wet connector logging.

It became the first oilfield in China to pass the 60-million-ton mark in annual oil and gas output, a landmark in China's energy history. Changqing Oilfield, with 50 years of history, has played an important role in safeguarding the country's energy security, supplying gas to more than 50 cities in North and Northwest China, including the ...

PetroChina Changqing Oilfield Company PetroChina Tarim Oilfield Company PetroChina Southwest Oil & Gasfield Company ... Geothermal Energy Storage Systems: Opportunities and Challenges Yan-xin WANG, Academician of the Chinese Academy ...

The annual production of shale gas in southern Sichuan has been increased from 13.2 Ã-- 108 m³ to 116.3 Ã-- 108 m³, and the annual production of tight oil/shale oil in Xinjiang Oil- field and Changqing Oilfield was increased from 89.5 Ã-- 104t to 398.5 Ã-- 104 t. Fig. 2.

On January 12th, the civil engineering foundation of the carbon capture, utilization, and storage (CCUS) demonstration project's first-phase carbon dioxide (CO₂) tank at the Ningdong base of the China Energy's 3 million tons/year carbon capture, utilization, and storage (CCUS) full-industry demonstration project (hereinafter referred to as the "CCUS Demonstrative Project") ...

Storage industry powerhouse Hyperstrong has unveiled a state-of-the-art energy storage system at PetroChina's sprawling Changqing oilfield -- making it one of China's largest similar systems. The project, which cracked ...

Carbon dioxide capture use and storage (CCUS) technology is an important CO₂ abatement technology. CCUS technology has been safely put into commercial operation for 45 years. By the end of 2018, 21 large-scale CCS facilities will be put into operation worldwide, and 37 million tons of carbon dioxide will be collected every year.

70,000. Changqing Oilfield has nearly doubled its labor productivity during the 13th Five-Year Plan period. Securing supply to the domestic market. Over the past five decades, Changqing Oilfield's proven oil and gas in place have amounted to 5.9 billion tons and 4 trillion cubic meters respectively, accounting for 20% of China's total.

"horizontal well, multi series, stereoscopic, cluster wells, and factory operation" based on their ...

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