

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 × 10<sup>8</sup> m<sup>3</sup>, 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 × 10<sup>4</sup> t and gas production of 346.8 × 10<sup>8</sup> m<sup>3</sup>, or oil/gas equivalent production of 5195 × 10<sup>4</sup> 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 × 10<sup>8</sup> m<sup>3</sup> in 2015.

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 ...

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.

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...

The Ningxia 3 million tons CCUS demonstration project is the Ningdong base carbon source capture project in charge of the National Energy Group Ningxia Coal Industry Co., Ltd. and the ...

Aerial photo taken on June 15, 2022 shows the PetroChina Liaohe Oilfield gas storage group in Panjin, northeast China's Liaoning Province. The homebred gas injection system was successfully put ...

At present, natural gas accounts for a low proportion in China's primary energy consumption structure and is highly dependent on foreign sources. Changqing gas province of the Ordos Basin where PetroChina Changqing Oilfield Company (referred to as Changqing Oilfield) is located is one of China's four major natural gas production bases.

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 ...

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 ...

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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 Oilfield Company. The oilfield's oil and gas output in 2022 increased by nearly 2.57 million tonnes from 2021, the company said. Located ...

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 ...

On January 12th, the civil engineering foundation of the carbon capture, utilization, and storage (CCUS) demonstration project's first-phase carbon dioxide (CO<sub>2</sub>) 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") ...

: , , , , Abstract: Facing the pressure of the increasingly complex exploration and development objects and low oil price, Changqing Oilfield has explored and formed a new development mode of shale oil and tight gas with "horizontal well, multi series, stereoscopic, cluster wells, and factory operation" based on ...

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.

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 ...

Oilfield, was completed, covering an area of 510 mu. Remarkable progress was made in planting carbon sink forests in Xinjiang Oilfield and Ji Yuan (Changqing Oilfield). In the future, CNPC will endeavor to build it into a green enterprise, push ahead with the shift from an oil and gas supplier to an integrated energy service provider and make ...

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The first "scenic Firewood storage" microgrid in the second oil . The first "scenic Firewood storage" microgrid in the second oil production plant of Changqing Oilfield was put into operation Release time:2024-04-12 16:13:07 Clicks: As of December 25, the first "Fengfeng Firewood storage" microgrid of the second Oil production plant of Changqing Oilfield has been put into ...

State Engineering Laboratory for Exploration and Development of Low-Permeability Oil & Gas Fields, Xi'an 710018, China; 2. Oil & Gas Technology Research Institute of Changqing Oilfield Company, PetroChina, Xi'an 710018, China Abstract: Sulige gas field is a typical low-permeability reservoir in China.

Last year, 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. Situated in Northwest China's Ordos Basin, the Changqing oilfield has played an important role in safeguarding the country's energy security.

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

• 10.9 t from 2019 to 2021 [[15], [16], [17]].

In 2016, Changqing Oilfield continued to improve the technology for low-permeability reservoir development, accelerated the commissioning of new wells, took measures to treat stripper wells and renovated long shut-down wells, achieving an annual output of 23.92 million tons of crude oil and 36.5 billion cubic meters of natural gas, and ...

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 (Changqing Oilfield) recently achieved a milestone, marking a cumulative production of over 1 billion tons of oil equivalent. Its ...

Stimulation Department of National Energy Tight Oil and Gas R& D Center, Langfang 065007, China; 3. PetroChina Changqing Oilfield Company, Xi'an 710018, China; 4. ... large well cluster and factory operation", PetroChina explored a new development mode of large platform multi-layer well placement and three-dimensional fracturing in Hua ...

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, ...

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 ...

Aiming at increasing output per individual well, it has developed 19 unique technologies in 6 series, namely quick reservoir evaluation, optimization of effective displacement systems, ...

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

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 ...

Carbon dioxide capture use and storage (CCUS) technology is an important CO<sub>2</sub> 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.

The annual production of shale gas in southern Sichuan has been increased from 13.2  $\times 10^8$  m<sup>3</sup> to 116.3  $\times 10^8$  m<sup>3</sup>, and the annual production of tight oil/shale oil in Xinjiang Oilfield and Changqing Oilfield was increased from 89.5  $\times 10^4$  t to 398.5  $\times 10^4$  t. Fig. 2.

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