The Centre for Coal Seam Gas Surat Basin Coal Seam Gas (CSG) is maturing from exploration to production to meet the targets for the Liquefied Natural Gas projects.

This research aims to evaluate the role of tectonic and structural features on the in situ stress and fractures within the Walloon Subgroup, Surat Basin. Structural controls on in situ stress and fractures are directly controlled by permeability, gas saturation, and their matching with well production spots. The study will link geological variability with reservoir performance in key structural domains across the Surat Basin.

STRUCTURAL CONTROLS ON IN SITU STRESS AND FRACTURES

The methodology for borehole image log analysis is presented, along with preliminary results. These results show variations in stress orientation and fracture development within the Walloon Subgroup, highlighting the importance of understanding structural controls on reservoir performance.

REFERENCES

This section includes a list of references for further reading on the topic. The references are cited in the text to support the claims made in the research.

BACKGROUND

The background section provides context and motivation for the study. It includes a description of the Surat Basin, its geology, and the importance of understanding structural controls on reservoir performance.

METHODOLOGY

The methods used for data collection and analysis are described in detail. This includes the borehole image log analysis methodology and the preliminary results obtained from this analysis.

CONCLUSIONS

The conclusions summarize the findings of the study and highlight the implications for understanding structural controls on reservoir performance. The conclusions also suggest areas for future research.

AIM OF THE STUDY

The aim of the study is to evaluate the role of tectonic and structural features on the in situ stress and fractures within the Walloon Subgroup, Surat Basin. This is achieved through an analysis of borehole image logs, with the goal of linking geological variability with reservoir performance in key structural domains across the Surat Basin.

Figures and diagrams are used to illustrate key findings and support the conclusions of the study. These visual aids help to convey complex information in a clear and concise manner.