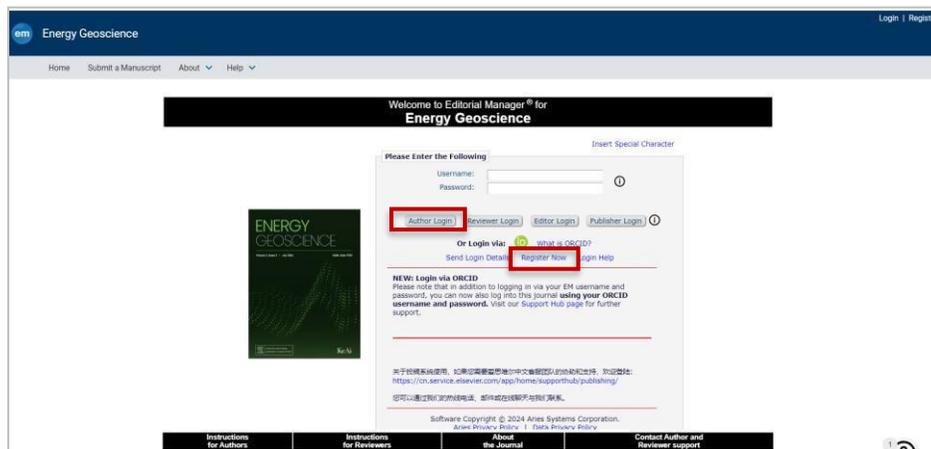


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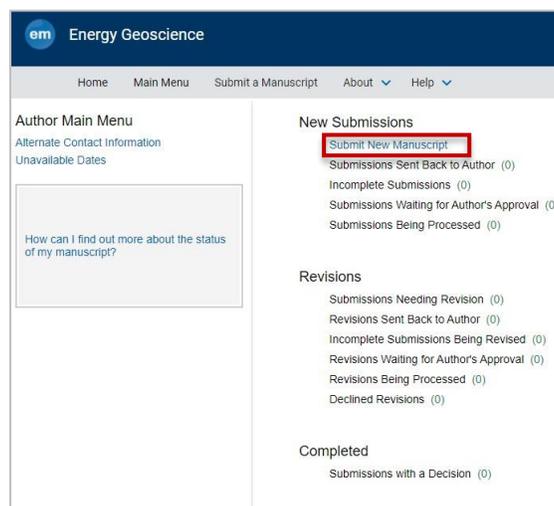
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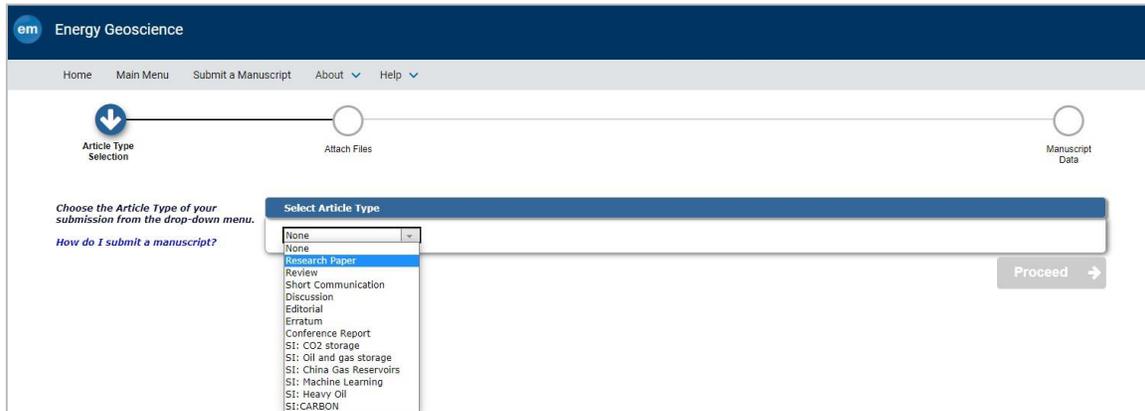


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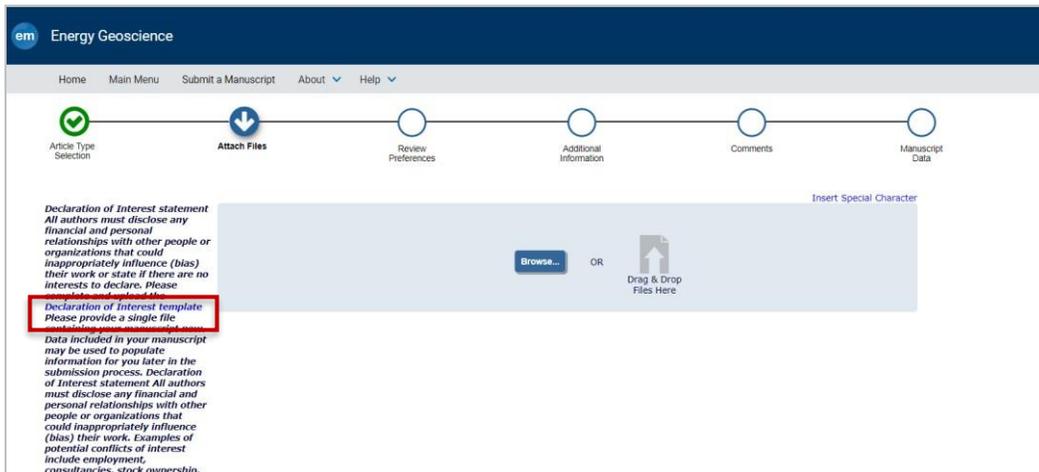


(2) Select the manuscript type: 'Research Paper' for research articles, 'Review' for review articles, among others. **Note that when submitting to a Special Issue (SI), please select the name of the Special Issue you wish to submit to.**



(3) Click 'Proceed'.

(4) Drag and drop the relevant submission files into the indicated area or click 'Browse' to select the appropriate files. Click on the left side of the interface to download the [Declaration of Interest template](#).



3. Required Documents

Prepare the documents required to proceed with your submission, which include:

Cover Letter, Highlights, Graphical Abstract, Title Page, Manuscript Without Author Details, Declaration of competing Interest

(1) Cover Letter

The cover letter should recommend the article, highlight its significance, and state that there are no ethical issues such as duplicate submission. Example:

Dear Editor: ↓

↵

We would like to submit the uploaded manuscript entitled "An effective approach to define stratigraphic oil and gas plays by modifying proven and mature structural plays: An initial success in the exploration of stratigraphic plays in the western slope of Xihu Sag, East China Sea Shelf Basin". We wish it would be considered for publication in the Journal of Asian Earth Sciences. No conflict of interest exists in the submission of this manuscript, and manuscript is approved by all authors for publication. I would like to declare on behalf of my co-authors that the work described was original research that has not been published previously, and not under consideration for publication elsewhere, in whole or in part. All the authors listed have approved the manuscript. ↓

↵

The authors are from the research department of the Sinopec Shanghai Oil and Gas subsidiary. Together with the CNOOC Shanghai colleagues, we are the very workers who carried out the workflow of seismic interpretation, play definition, closure identification, risk analysis, well proposal etc. for these new discoveries. Thus, we believe we are suitable persons to summarize these progresses and discuss the indications to the exploration geology of the basin. ↵

↵

The study area is located in the western slope of the Xihu Sag in the East China Sea Basin. We first summarized the petroleum geological aspects of the area. Then by identification and mapping of four types of stratigraphic and lithologic terminations in the area, the work shows how previously incomplete structure closures were re-defined as stratigraphic closures and were successfully drilled. The stratigraphic play types of these new discoveries are also summarized. The geological background of the study area is incorporated to analyze hydrocarbon accumulation mechanism of these plays and to propose a guideline to find larger traps. Many similar risky structure closures in the sag slope may become suitable for exploration in light of these concepts. I hope this paper is suitable for the Journal of Asian Earth Sciences. ↓

↵

We deeply appreciate your consideration of our manuscript, and we look forward to receiving comments from the reviewers. If you have any queries, please do not hesitate to contact me. ↵

↓

Thank you and best regards. ↓

↵

Yours sincerely, ↓

(2) Research Highlights

Research highlights should be 3-4 sentences with bullet points, each of which should not exceed 85 characters, including spaces. Example:

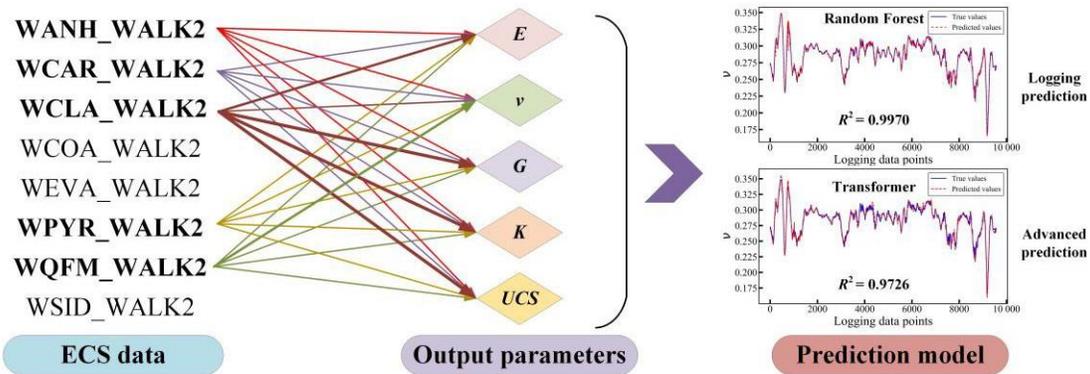
Highlights:

- Types and genesis of sweet spots in tight sandstone gas reservoirs.
- Sweet spots dominated by bedding parallel and fault-induced fractures and pores.
- Evaluation criteria and geological models for sweet spots.

(3) Graphical Abstract

A graphical abstract is a visual representation of the main content of the article. It should be uploaded as a single image in .jpg or .tiff format with height to width ratio of 1:3. The image itself can be a collage of image panels but no more than 4, and the text must be short and clear.

Example:



(4) Title Page

Diagenetic controls on reservoir quality in deep ultra-thick sandstones: a case study from the Huagang Formation, Xihu Depression, East China Sea

Daowu Huang^a, Yixiu Zhu^{b,*}, Zhaoliang Yan^a, Xianke He^a, Chengshan Li^b, Chuangxin Liu^a, Binbin Liu^a

^a Shanghai Branch of CNOOC Ltd., Shanghai, 200335, China
^b School of Earth Sciences, China University of Petroleum, Beijing, 102200, China
*Corresponding author.
Email address: *****@cup.edu.cn

(5) Manuscript Without Author Details

- (a) Remember to delete all author names, affiliations and emails.
- (b) The manuscript must not exceed 12,000 words in English.
- (c) Please upload the manuscript as a document (.doc) file. Use the 12- point Times New Roman font for text.
- (d) Article title: only the first letter of the first word and proper nouns are to be capitalized, while all other words are in lowercase.
- (e) Abstract: The abstract is a concise summary of the article, limited to 250 words. It generally excludes symbols, figures, tables, references, formulas, and abbreviations.
- (f) Keywords: 4~8 keywords are to be included below the abstract.
- (g) Structure: The manuscript structure should include, but is not limited to, Introduction, Geological Setting, Methodology, Discussion, and Conclusion. Three levels of headings may be used: 1, 1.1, and 1.1.1.
- (h) Be sure to insert continuous line numbers on the left side of the manuscript to facilitate peer review feedback and suggested revisions. THIS IS A MUST

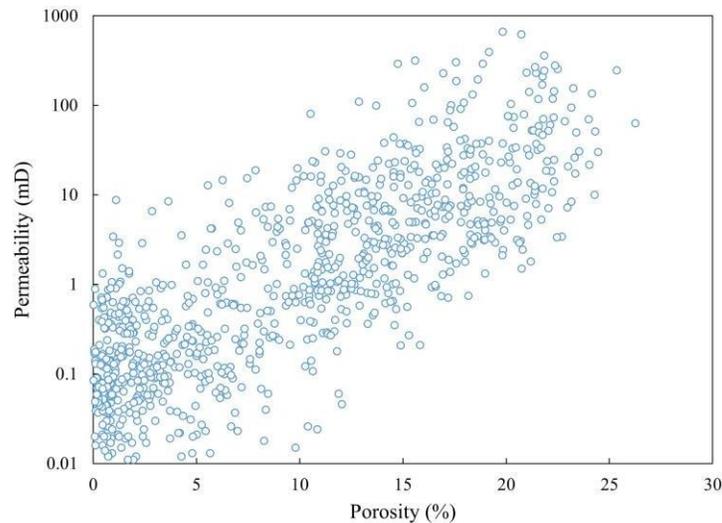
1 Diagenetic controls on reservoir quality in deep ultra-thick
2 sandstones: a case study from the Huagang Formation, Xihu
3 Depression, East China Sea

4 **Abstract**

5 Tight sandstone reservoirs represent a pivotal unconventional oil and gas
6 production target. The upper section of the deeply buried Huagang Formation in the
7 Xihu Depression is abundant in hydrocarbons and forms a tight reservoir. It exhibits
8 substantial diagenetic variability and strong heterogeneity in sand bodies, which is
9 reflected in variations in physical properties and grain size. Through integrated
10 geological analysis, including rock thin sections, scanning electron microscopy, X-ray
11 diffraction, well logging and production test data, we investigated the diagenesis,
12 reservoir formation mechanisms, and controlling factors of high-quality reservoirs
13 within the superposed sandstone bodies exceeding 100 m thick in the deeper Huagang
14 Formation. We also studied the formation characteristics of these ultra-thick sandstones,
15 clarifying that diagenesis and post-depositional modification are crucial for developing
16 high-quality reservoirs in this formation. Our findings indicate that the sandstone
17 underwent compaction, cementation (by chlorite, calcite and quartz), dissolution (of K-
18 feldspar and carbonate cement), and authigenic clay mineral cementation (such as illite,

(i) Figures and Tables:

- i The number of figures should be limited to 15. Additional figures can be submitted as Supplementary files.
- ii Use Times New Roman or Arial font for all text, with a font size of 12.
- iii The axis scales should face inward, with physical quantities and units separated by parentheses and centered (e.g., $p(\text{MPa})$, $f(\text{Hz})$, $D(\text{mPa}\cdot\text{s})$).



- iv *Parameters and variables* should be in italics, with subscripts in regular font.

(j) References:

- i The number of references must not exceed 150.
- ii For in-text citations, use the author-year format in parentheses, for

example (Sun et al., 2022).

- iii For the reference list, list references alphabetically at the end of the manuscript. Ensure that all author names are included in the references. It is strongly recommended that the authors download recent articles published in the journal for reference formatting. Example:

436 **References**

437 Al-Diwany, H. K., 1973. Film condensation of steam in the presence of non-condensing gases.
438 *International Journal of Heat and Mass Transfer*, 160(7), 1359-1369.

439 Alvarado, V., Manrique, E., 2010. Enhanced oil recovery: an update review. *Energies*, 3(9), 1529-
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442 wormhole reservoirs. *SPE* 97765.

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446 *Petrochem*, S1, 128-129.

447 Chen, Q., Gerritsen, M.G., Kovscek, A.R., 2010. Improving steam-assisted gravity drainage using
448 mobility control foams: foam assisted-SAGD (FA-SAGD). *SPE* 129847.

449 Chen, X., 2019. Experimental study on effect evaluation of thin-layer heavy oil horizontal-well
450 solvent-enhanced steam flooding (HW-SESF) [D]. Beijing: China University of Petroleum
451 (Beijing). (in Chinese).

(6) Declaration of Interests

Download the Declaration of Interest template from the system and upload a filled-in document. Editors or board members of the journal should add an extra statement of declaration. Example:

Conflict of Interest

Declaration of interests

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper.

The author is an Editorial Board Member/Editor-in-Chief/Associate Editor/Guest Editor for *[Journal name]* and was not involved in the editorial review or the decision to publish this article.

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