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## Date Coverage

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## COMPOSITIONAL MODELING OF SHALE CONDENSATE GAS FLOW WITH MULTIPLE TRANSPORT MECHANISMS

Liu, L; Yao, J; Sun, H; Huang, Z; Yan, X; et al. **JOURNAL OF PETROLEUM SCIENCE & ENGINEERING** 172 : 1186-1201. (2019)

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**AB**  **Abstract (summary)** [Translate](#)

Shale condensate gas has gained great attention in recent years due to the production of profitable liquid hydrocarbons. The fluid flow in shale matrix is complex and influenced by multiple transport mechanisms, such as stress sensitivity, Knudsen diffusion, adsorption, molecular diffusion, and confined phase behavior. In addition, the coexistence of multiscale pore space, including hydraulic fractures, micro-fractures in simulated reservoir volume (SRV) and nanopores in matrix further increases the fluid flow complexity. Conventional models cannot commonly consider all the factors. In this work, we develop a hybrid model for condensate gas reservoir, where fluid flow is described by compositional model coupled with transport mechanisms, micro-fractures and hydraulic fractures are handled by multiple interacting continua (MINC) model and embedded discretized fracture model (EDFM). Then based on the proposed model, the effects of gas transport mechanisms on a multi-stage fractured horizontal well production are analyzed, where simulations are conducted with and without SRV to investigate the importance of SRV. Furthermore, some important reservoir parameters, such as SRV properties, hydraulic fracture length and bottom-hole pressure are also investigated with the proposed model. (c2018 Elsevier B.V.)

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<b>SU</b>	<b>Subject</b>	COMPOSITIONAL MODEL (major); CUMULATIVE PRODUCTION (major); DATA (major); DIMENSIONLESS NUMBER (major); FRACTURED RESERVOIR (major); FRACTURED SHALE RESERVOIR (major);  ...
<b>CC</b>	<b>Classification</b>	SC008: RESERVOIR ENGINEERING & RECOVERY METHOD
<b>TI</b>	<b>Title</b>	COMPOSITIONAL MODELING OF SHALE CONDENSATE GAS FLOW WITH MULTIPLE TRANSPORT MECHANISMS
<b>AU</b>	<b>Author</b>	Liu, L; Yao, J; Sun, H; Huang, Z; Yan, X; LI, L
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<b>FAV</b>	<b>First available</b>	2019-02-19
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Author <sup>1</sup> Author First Name Author Last Name	AU <sup>1</sup> AUFN AULN	au("sun h") aufn(h) auln(sun)	Includes all authors.
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Classification (IPC)	IPC	ipc(e21b-033/138) ipc(e21b-033) ipc(e21b)	IPC8 patent classification codes are available in patent records only.
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DOI	DOI	doi(10.1016/j.petrol.2018.09.030)	Digital Object Identifier. Search the portion of the DOI that comes after <a href="http://dx.doi.org/">http://dx.doi.org/</a> .
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ISBN	ISBN	isbn(978-3-936418-90-3)	Also searchable via the Look Up Citation tool.
ISSN	ISSN	issn(0920-4105) issn(09204105)	Also searchable via the Look Up Citation tool.
Issue	ISS	iss(12)	Also searchable via the Look Up Citation tool.
Journal title	JN	jn(journal of petroleum science & engineering) jn.exact(petroleum) jn("journal of earth science")	Full journal name. Use double quotes or .exact to disambiguate names. A look-up list is available under Publication title.
Language	LA	la(spanish)	The language in which the document was originally published.
Major subject	MJSUB	mjsub("fractured reservoir")	Subjects which have major emphasis in the document.
Notes	NT	nt(earthdoc)	Notes on availability are sometimes provided.
Pagination	PG	pg(1186-1201) pg(1186) pg(1201)	

Field name	Field code	Example	Description and Notes
Patent Information	PAT	pat(eu 1457639) pat(halliburton) pat(eu) pat(us 386264)	May include patent number, assignee, publication date, publication country, application number, application date, priority country, priority application number, priority date and inventor. Dates and inventor are only searchable with their own fields (shown below).  IPC Classification is available in its own field – see Classification.
Inventor	INV	inv(girgenti)	
Patent publication country	PBC	pb(us) pb(eu)	
Patent number	PN	pn(1457639)	
Patent publication date	PDA	pda(20040915)	
Patent priority number	PRN	prn(us 271081) prn(us)	
Patent priority date	PRD	prd(1996-06-10) prd(19960610)	
Patent application date	PAD	pad(2007-07-26) pad(20070726)	
Patent assignee	AP	ap(halliburton)	
Publication date	PD	pd(2019) pd(>=20180101) pd(20181201-20190201)	Date range searching is supported.
Publication year	YR	yr(2019)	Publication year; occurs in all records.
Publication title <sup>1</sup>	PUB <sup>1</sup>	pub("marine and petroleum geology")	Name of the publication, including books, reports and other types in addition to journals.
Publication type	PSTYPE	pstype(journals)	The main publication types are journals, books, patents, reports and meetings
Report number	RP	rp(spe*) rp("ADSPE-44")	
Source information	SRC	src(marine and 29 and 2019)	Source details. 'SRLA' and 'SRPA' refer respectively to 'See Related Literature Abstract' and 'See Related Patent Abstract'; they are followed by the accession numbers of the related TULSA records.
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Field name	Field code	Example	Description and Notes
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<b>Preview (transactional)</b>	Title, Publication date, Subject terms	ü	
<b>Brief citation</b>	Complete record minus Abstract and Indexing	ü	ü
<b>Citation / Abstract</b>	Complete record	ü <sup>1</sup>	ü
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