

Correlations for Joule-Thomson Coefficients of Geothermal Waters Containing CO₂

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Keywords: J-T coefficient, J-T inversion curve, water-CO₂ systems, EoS

ABSTRACT

Reliable Joule-Thomson (J-T) coefficients of geothermal fluids containing CO₂ are important for non-isothermal reservoir flow simulation, well stream simulation, and process simulation. The J-T coefficients of fluids can be experimentally determined. However, it is difficult to conduct laboratory measurements because precise PVT data for cross interpolation is required for accurate estimation of the coefficients. Thus, experimentally measured J-T coefficients of water-CO₂ mixtures are almost non-existent. Consequently, it is necessary to estimate J-T coefficients by using an accurate equation of state (EoS); however, programming and running a complicated EoS is not an easy task. Accurate EoS modeling requires many parameters, and finding the right volumetric root could be problematic and is not trivial. This paper presents useful correlations for the estimation of J-T coefficients of water-CO₂ mixtures. Isenthalpic expansions are modelled for binary mixtures of water and CO₂ at different concentrations by using Gallagher, Crovetto, and Sengers EoS (1993). The EoS implemented in this study predicts both phase equilibrium and volumetric properties accurately for a temperature range of 400–1000 K and a pressure range of 0–100 MPa and 30% mole fraction of CO₂. Pure component properties are estimated for water and compared with the ones in the literature. In addition, the effects of temperature and pressure on the J-T coefficients are investigated. The EoS given in this study applies for the temperature and pressure conditions which are limited to the ones encountered in typical geothermal reservoirs, and the correlations are derived based on the results of the EoS. The effect of CO₂ content on both the J-T coefficients and the inversion curves is also studied. The proposed correlations are derived in the temperature range of 400–550 K, and the pressure range of 8–30 MPa.

1. INTRODUCTION

Interest in temperature transient analysis in recent years has grown rapidly due to the recent advances and improvements in resolution of downhole temperature gauges. Interpretation and analysis of transient sandface temperatures alone or jointly with transient pressure data could yield important information regarding near-wellbore and far-field reservoir characteristics (Onur and Cinar, 2016; Palabiyik et al., 2016). For the majority of well testing applications temperature is measured along with pressure, but analyzing temperature data is not a common practice in well test analysis. Developing techniques for temperature transient analysis could help to acquire more information regarding the well/reservoir system without any additional costs.

There are a number of studies in petroleum and geothermal engineering literature emphasizing certain trends in the temperature changes, when the effects of Joule-Thomson (J-T) heating/cooling, transient adiabatic fluid expansion/compression, conduction, and convection are included in modeling of sandface temperatures during constant-rate drawdown and buildup tests; for instance see, Gang and Pritchett (1977,1984); Sui et al. (2008a, 2008b); App (2009, 2010); Duru and Horne (2010a, 2010b, 2011a, 2011b); Ramazanov et al. (2010); Palabiyik et al. (2013, 2015); App and Yoshioka (2013); Sidorova et al. (2015); and Onur and Palabiyik (2015).

Modeling temperature behavior within the reservoir and in the well requires thermal parameters regarding the fluid/rock system such as thermal conductivity, heat capacity, enthalpy etc. There are two approaches in modelling Joule-Thompson (J-T) effects while modelling temperature behavior: 1) J-T effects are included implicitly through enthalpy variation with respect to temperature and pressure. Eq. 1 shows the energy balance including enthalpy (Palabiyik et al., 2016). 2) Energy balance is derived with respect to temperature and the J-T effects are accounted for explicitly with an additional term in the expression. Eq. 2 shows the energy balance with respect to temperature for a 1D radial heat flow (Palabiyik et al., 2016). The second approach is temperature explicit and needed for analytical solutions of temperature for well test analysis applications. In such a case J-T coefficient is needed for the solution of temperatures (Palabiyik et al., 2016):

$$\frac{\partial}{\partial t}[\phi \rho_s H_s + (1-\phi) \rho_f H_f] - \frac{\partial(\phi p)}{\partial t} + \nabla \cdot (\rho_s H_s \mathbf{v}_s) - \nabla \cdot (k \nabla T) = 0 \quad (1)$$

$$[\phi \rho_s c_{p,s} + (1-\phi) \rho_f c_{p,f}] \frac{\partial T}{\partial t} - \phi(\rho_s c_{p,s} \mu_s + 1) \frac{\partial p}{\partial t} - \rho_s c_{p,s} \frac{k}{\mu_s} \frac{\partial p}{\partial r} \frac{\partial T}{\partial r} + \mu_s \rho_s c_{p,s} \frac{k}{\mu_s} \left(\frac{\partial p}{\partial r} \right)^2 - \frac{k}{r} \frac{\partial}{\partial r} \left(r \frac{\partial T}{\partial r} \right) = 0 \quad (2)$$

The J-T coefficients of fluids can be experimentally determined. However, it is difficult to conduct laboratory measurements because precise PVT data for cross interpolation is required for accurate estimation of the coefficients. Thus, experimentally measured J-T coefficients of water-CO₂ mixtures are almost non-existent. Consequently, it is necessary to estimate J-T coefficients by using an

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Table of Contents Waterco Focus Temp Manual

1. Understanding the eBook Waterco Focus Temp Manual
 - The Rise of Digital Reading Waterco Focus Temp Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Waterco Focus Temp Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Waterco Focus Temp Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Waterco Focus Temp Manual

- Personalized Recommendations
 - Waterco Focus Temp Manual User Reviews and Ratings
 - Waterco Focus Temp Manual and Bestseller Lists
5. Accessing Waterco Focus Temp Manual Free and Paid eBooks
 - Waterco Focus Temp Manual Public Domain eBooks
 - Waterco Focus Temp Manual eBook Subscription Services
 - Waterco Focus Temp Manual Budget-Friendly Options
 6. Navigating Waterco Focus Temp Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Waterco Focus Temp Manual Compatibility with Devices
 - Waterco Focus Temp Manual Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Waterco Focus Temp Manual
 - Highlighting and Note-Taking Waterco Focus Temp Manual
 - Interactive Elements Waterco Focus Temp Manual
 8. Staying Engaged with Waterco Focus Temp Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Waterco Focus Temp Manual
 9. Balancing eBooks and Physical Books Waterco Focus Temp Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Waterco Focus Temp Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Waterco Focus Temp Manual
 - Setting Reading Goals Waterco Focus Temp Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Waterco Focus Temp Manual

- Fact-Checking eBook Content of Waterco Focus Temp Manual
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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sugiyono 2012 102 state that research instrument is the tools to measure nature phenomenon and social that is observed research instrument is essentially used to get information or data about the object taken from subject of the research many kinds of instrument which can be used in a research such as test questionnaires interview

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3 3 1 technique and instrument according to sugiyono 2012 148 the research instrument is a tool used to measure the natural and social phenomena observed the instruments for collecting the data is interview guide observation check list and documents analysis

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may 4 2021 the term research instrument refers to any tool that is used by a scientist to obtain measure and analyze data the data is sourced from subjects included in the research experiment and focused on the topic the instruments used have various roles there are different tools that help you conduct quantitative qualitative and mixed studies

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3 3 research instrument research instrument was the tool to collect the data according to sugiyono 2012 102 instrument is tools testing to measure some specifics phenomenon in this research the researcher used instruments in reading test to measure students reading comprehension

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the purpose of this study was to produce student worksheet lembar kerja peserta didik lkpd and pisa based test instruments

that were valid practical effective and able to improve students mathematical representation abilities this type of research was the tessmer model development research

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according sugiyono 2009 38 understanding of the research object is an attribute or the nature or value of a person object or activity that has certain variations which are set by the researchers to be learned and then drawn conclusions here the objects research are students of sma bpk penabur tasikmalaya grade 1 3

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