

Asphalt, resin and paraffin deposits from pumping and compression oil pipes removal process modeling

Galiakbarov R., Samigullin A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2018 Institute of Physics Publishing. All rights reserved. This article deals with temperature calculation results on inner surface of oil pipes and melting of asphalt, resin and paraffin deposits side-wall layer.

<http://dx.doi.org/10.1088/1742-6596/1058/1/012033>

References

- [1] Mullins Oliver C., Pomerantz Andrew E., Ballard Andrews A. and Julian Y. 2015 Zuo Asphaltenes Explained for the Nonchemist // *Petrophysics* 56 266-275
- [2] Mansoori Ali G. 2010 Remediation of asphaltene and other heavy organic deposits in oil wells and pipelines // *Socar proceedings Neftegas* 12-23 - NIP
- [3] Samigullin A.D. 2015 Improvement of thermal cleaning process of oil pipes from asphalt, resin and paraffin deposits In collected articles: Information technologies. Automation. Actualization and highly-qualified personnel preparation problem solution (ITAP-2015). International research/practice conference digest (distant form). Institute of Naberezhnye Chelny (branch) FGAOU VPO K(P)FU Informational-educational training center for engineering specialists ed A.D. Samigullin and A.T. Galiakbarov 54-59
- [4] Pat. 161034 Russian Federation, MPK B08B 9/02 Device for thermal cleaning of dismantled oil pipes from asphalt, resin and paraffin deposits Kazan (Privolzskiy) Federal University applicant and patent holder - Federal FGAOU VO - 2015134577/05; application 17.08.2015; published on 10.04.2016 Bulletin
- [5] Shishkin N.D. 2011 Application of inductive oil heating during its transportation from the North Caspian oilfields. N. D. Shishkin Astrakhan State Technical University reporter Series: Marine facilities and technologies 52-56
- [6] Samigullin A. D., Galiakbarov A. T. and Galiakbarov R. T. 2016 Study of the petroleum schedules thermal cleaning process from asphalt, ressin and paraffin deposits using low-temperature plasma//VII Conference on low temperature plasma in the processes of functional coating preparation 669 Is. - Art
- [7] Samigullin A. D., Samigullina A. R., Samigullin A. D. and Gabdrakhmanov A. T. Localized thermal cleaning method for pumping and compression pipes from asphalt, resin and paraffin deposits using plasma *Journal of Physics: Conference Series* 789
- [8] Shakirova G Yu, Shakirov Yu I, Ilyin V I, Valiev R A and Drogaylova L N 2017 Determination of steel bar dispersed mass in electric discharge with alternative electrode *J. of Phys.: Conf. Ser.* 789 012050