

Localized thermal cleaning method for pumping and compression pipes from asphalt, resin and paraffin deposits using plasma

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Abstract

© Published under licence by IOP Publishing Ltd. The article deals with temperature calculation results at the inner surface of oil-well tubing and side-wall melting of asphalt, resin and paraffin deposits.

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References

- [1] Samigullin A. D., Galiakbarov A. T. and Galiakbarov R. T. 2017 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 12017
- [2] Ivanova LV 2011 The study of the asphaltene deposits of different nature and the way of their use Electronic scientific journal "Oil and Gas Business" Ivanova LV1, V.N.2 Koshelev, OA Stokolos <http://www.ogbus.ru>
- [3] Russian Federation Patent no. 2437726, IPC (2006.01) B08B9/00. Priority from April, 14 2010. Published on December, 27 2011. Patent description - ref-separator -
- [4] Gabdrakhmanov A T, Israphilov I H, Galiakbarov A T, Bashmakov D A and Samigullin A D 2013 Impulse plasma surface thermohardening of manufacturing engineering parts International scientific and technical conference proceedings «Innovative engineering technologies, equipment and materials - 2013» (Interbranch scientific and technical complex «IMTOM-2013») and «Improving competitiveness and energy efficiency of machine builders under conditions of WTO» forum (Kazan,) 44-48 Part 2
- [5] Israfilov I.H., Galiakbarov A.T., Bashmakov D.A., Gabdrakhmanov A.T. and Samigullin A.D. 2014 Pulse plasma surface thermostrengthening of machine parts IOP Conf. Ser.: Mater. Sci. Eng. 69 012037
- [6] Russian Federation Patent no. 161034, IPC (2006.01) B08B 9/02. Priority from August, 17 2015. Published on April, 10 2016. Patent description.
- [7] Samigullin AD 2015 Improving the thermal treatment process of OCTG from asfaltosmolo-paraffin deposits International scientific-practical conference "Information technologies. Automation. Actualization and problem-solving training of highly qualified personnel (PAI-2015) ", 2015.: Proceedings / red.kol. Simon LA [and etc.]; under. Ed. Simonova LA, Savitsky SK (Naberezhnye Chelny,) ed AD Samigullin and AT Galiakbarov 54-59