



Books Conferences News About Us Home Journals Job: Home > Journal > Earth & Environmental Sciences > JWARP Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues JWARP> Vol.5 No.2, February 2013 • Special Issues Guideline OPEN ACCESS JWARP Subscription Gas Blowout Impacts on Ground Water Environs around the Tengratila Gas Field, Chattak, Bangladesh Most popular papers in JWARP PDF (Size: 854KB) PP. 164-170 DOI: 10.4236/jwarp.2013.52018 **About JWARP News** Author(s) M Farhad Howladar, Md. Mehedi Hasan, Saiful Islam, Fazle Mohammad Mohi Shine, Chowdhury Frequently Asked Questions Quamruzzaman **ABSTRACT** Recommend to Peers Gas blowout is one of the major hazard in petroleum field which normally damages the gas bearing geologic formation, structure, local tectonic setting, environment and so on. In Bangladesh, there have been three Recommend to Library well known gas blowouts. Among them, the most dangerous gas well blowout took place on 8 January 2005 in Sunamganj district when chattak-2 (also known as Tengratila) gas field was drilled. As a result, the Contact Us surrounding area is facing various problems among them water is the top of the list. From this point of view, the present study has been considered to find the impact of blowout on water around the gas blowout area. In this regard, the water samples (some are very near and some are away from the well) are Downloads: 402,295 collected and analyzed in the laboratory following the standard method. Some physical and chemical parameters of water such as pH, turbidity, EC, total solids, dissolved solids, suspended solids, manganese Visits: 887,600 ion, calcium ion, magnesium, iron, chloride and total hardness have measured where without turbidity, manganese and iron, all are still in tolerable state for all purposes and ranging within standard limit based Sponsors, Associates, ai on WHO, EU and EQS for Bangladesh. The quality of the near well tube wells water is much decreased than far away tube wells water which might be the direct or indirect influence of the blowout incident around the Links >> area. **KEYWORDS**

Tengratila Gas Field; Gas Blowout; Water Quality; Blow out Impact

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References

- B. Imam, " Energy Resources of Bangladesh," University Grants Commission of Bangladesh, Dhaka, [1] 2005, pp. 25-33 & 142-146.
- [2] K. Hiller and M. Elahi, "Structural Growth and Hydrocarbon Entrapment in the Surma Basin," ' Cireum-Pacific Council for Energy and Mineral Resources Earth Science Series, Vol. 10, 1988, pp. 657-669.
- APHA, AWWA and WPCF, "Standard Methods for the Examination of Water and Wastewater," 20th [3] Edition, American Public Health Association, Washington DC, 1998.
- M. A. Aziz, " A Textbook of Water Supply Engineering," Hafiz Book Centre, Dhaka. [4]
- D. M. A. Islam and M. M. A. Islam, " Environmental Incident in a Developing Country and Corporate [5] Environmental Disclosures: A Study of A Multinational Gas Company," Deakin University, Burwood.
- The Daily Star, "Report on the Second Blowout Incident," 2. June 2005 [6]
- [7] Bangladesh Water Development Board, " Ground Water Qualities of Bangladesh," 1978.

- [8] EU, " Drinking Water Standards," European Union, 2008.
- [9] World Health Organization, "International Drinking Water Standards," 3rd Edition, WHO, Geneva, 2007.
- [10] M. U. Igboekwe, A. O. Akankpo and I. E. Udoinyang, "Hydrochemical Evaluation of Groundwater Quality in Michael Okpara University of Agriculture, Umudike and Its Environs, Southeastern Nigeria," Journal of Water Resource and Protection, Vol. 3, No. 12, 2011, pp. 925-929. doi:10.4236/jwarp.2011.312103