



Bongo Development Organisation

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Bondo Trust is a UK Registered Charity No: 1157379

REPORT ON BOREHOLE DRILLING AND HAND PUMP INSTALLATION IN BONGO DISTRICT, UER, GHANA

Carried Out February to April 2016

1. Bongo Development Organisation

The Bongo District is one of the 8 Districts in the Upper East Region of Ghana and is the poorest district in the Region and in Ghana. The total population of the District is about 120,000 and the district has a longstanding problem of water supply. In 2008 a pilot Small Town water System was built by the local District Assembly to serve 29 standpipes. At present however 2 of the 3 downhole pumps feeding this system are not operating and the populace must collect water from the very few individual boreholes that have been sunk in past years.

The development of groundwater from boreholes is required. Limited financial and technical resources from District Assembly present significant challenges to finding appropriate solutions. International organisations and NGOs are essential.

Bongo Development Organisation (BONDO) was formed as a Ghana Charity in 2008 to bring in international donors to provide some finance. The UK charity BondoTrust was formed in 2014 to facilitate this process.

To date, BONDO has delivered over 120 household latrines, 34 borehole replacements, and 3 newly drilled boreholes. One of these has been automated with a electrically powered-downhole pump and poly tank storage.

2. The Problem

The key problem is too much time is spent drawing water from distant sources – these activities result in school children coming to school late and missing education opportunities.

Also the security of women is at stake as so much time is spent walking and at the boreholes even after dark, spending hours waiting even through the night.

The Primary School and community have requested BONDO provide a Clean Water Programme, which in turn will be funded by Dan Phipps.

3. Assakusi Primary School Borehole Activity 2015-16

Bondo is grateful to Dan Phipps, of Oregon, USA for funding the drilling of a borehole and provision and installation of a hand pump at Assakusi Primary School in Bongo District, January 2016. The funding was involved in the following works: site location, community meetings, location of drilling company and negotiation, execution and lining of borehole, water test, concrete pad construction and training of Water and Sanitation (Watsan) committees

3.1. Implementation Strategy

The implementation approach was demand driven. As such the actors had the following roles/responsibilities:

3.1.1. Donors

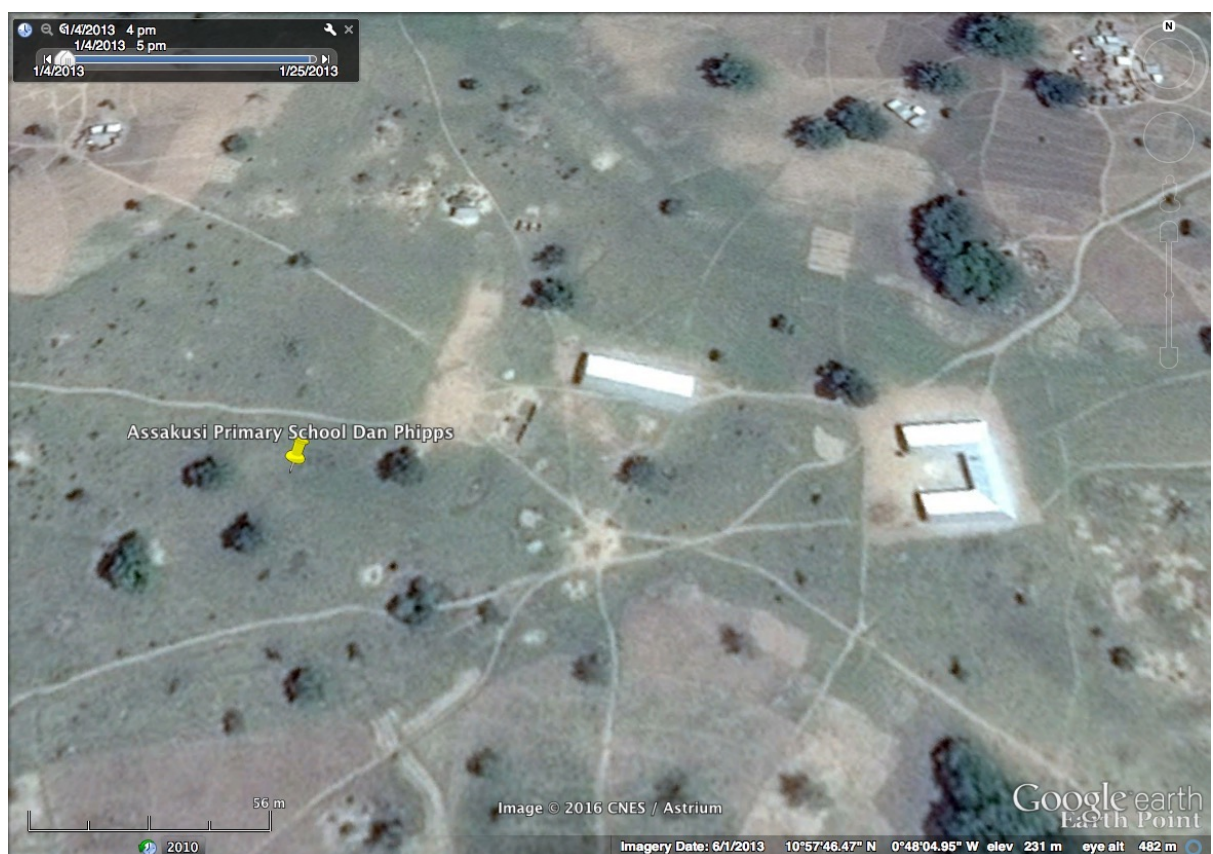
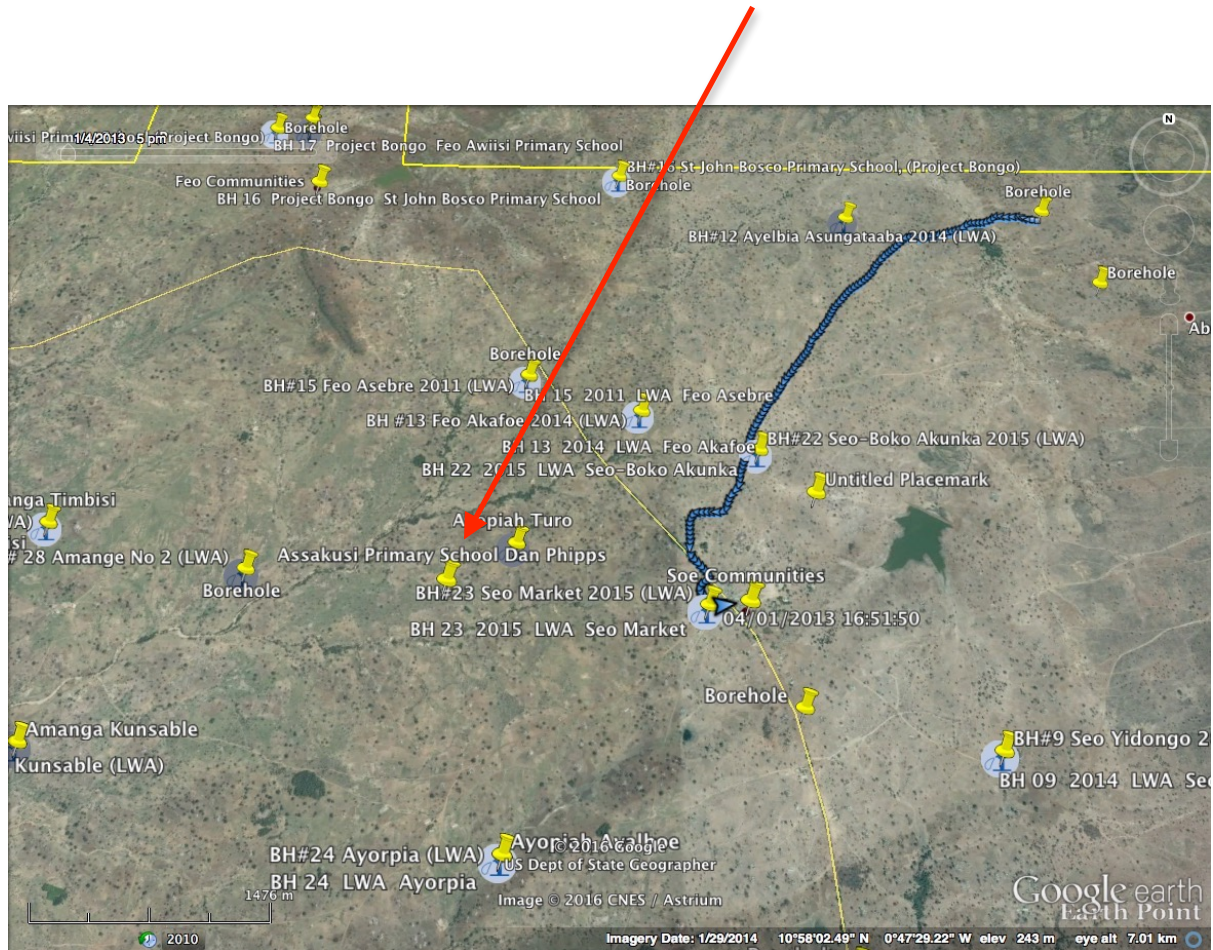
- Fund mobilisation
- Set up standards and ensure quality (administered by Bondo Trust UK)
- Monitoring and evaluation (administered by Bondo Trust UK)

3.1.2. Bongo Development Organisation

- Administer donor funds and write progress reports.
- Facilitate full community participation
- Conduct community and beneficiary identification
- Brief community regularly and get feedback
- Facilitate supply of drilling subcontractors, materials and new pump system
- Supervise construction work of artisans
- Ensure that water potability tests are completed and that water is suitable.
- Training of Water and Sanitation Committee) WATSAN committees\ Hygiene education
- Help solve conflicts and problems at different levels
- Concrete pad construction
- Installation of concrete base, complete pump, pipework, lift rods and pump barrel.

This report covers the drilling of a new borehole in Bongo over the winter of 2015/2016, at GPS coordinates:

Assakusi Primary School **10°57'46.13"N** **0°48'7.85"W**



4. Systematic and Efficient Process for Delivery

Bondo have created a systematic process for efficient implementation. Four meetings are held with each community and beneficiaries.

4.1. Borehole Installation

General Meeting 1 Bondo initially carried out an initial feasibility assessment of locations and met with the Traditional Leader and the Assemblyperson.

Meeting 2 During the second Community meeting we visited the area and assessed the facility. The costs of bringing in a drilling contractor and cost of required materials are estimated and the amount of funding available is discussed with the Community.

During this meeting we also explain the need for operation and maintenance, in the form of a short training course for the entire community – this encourages ownership. We inculcate



the need for regular and accurate book-keeping of the yearly contribution from the Community towards Operation and Maintenance.

The outcome of this meeting is the opening of Bank account(s) at Bongo Rural Bank, for safe-keeping of these important funds.



Meeting 3 The outcome of this meeting is the formation of the WATSAN Committee, comprising Chairman, Secretary, Treasurer, two caretakers and two Hygiene Promoters. These people are further trained in manual repairs on the borehole and how to promote hygiene education in the community.

Meeting 4 This provides a forum and a process for conflict resolution. The processes adopted enhance project acceptability and help to identify and eliminate sources of conflicts among community members.

4.2. Responsibilities of Beneficiaries for Boreholes

The Community Members collect stones, sand and water, and provide labour in the mixing and carrying of concrete for the platform, and support installation of the hand pump.

5. Bondo and Community Implementation

Bondo has successfully installed one new borehole complete with Afridev II hand pump in the Assakusi Primary School. Photographs were taken before, during and after the works.

In addition, Bondo has formed WATSAN Committees in the community, and delivered hygiene education and management training.

Water tested by the Govt lab for potability and passed as fit.



The borehole now has a bank account held by the Chairman of the PTA, with Bongo Rural Bank, to support operation and maintenance for sustainability of the facility.



Drilling rig contractor selected, on site, bored for water to 45m, installed and grouted 150mm diameter PVC lining. Set out and constructed concrete pad for pump, with community labour and basic materials, fitted and tested the hand pump.

Drilling Contractor on site at Assakusi Primary School

Drilling at Assakusi Primary School

Bongo Central after drilling of the hole, concrete base for hand pump marked out

The Children of Assakusi Primary School give thanks!

School Parent Teachers Association Chairman with bank book by Dan USA

6. Schedule

Activity	Date	Notes
Agreement to proceed	19th December 2015	Funds Transferred
WATSAN committee and Bank account in place	January to February 2016	WATSAN committees and bank account
Drilling rig on site	22nd Feb 2016	
Borehole sunk, tested and ready for pump	5th March 2016	
Hygiene Education complete	March 2016	Completed
Concrete base installed, hand pump fitted and handed over	31st March 2016	
Project Completion Package	June 2016	Report and pictures supplied