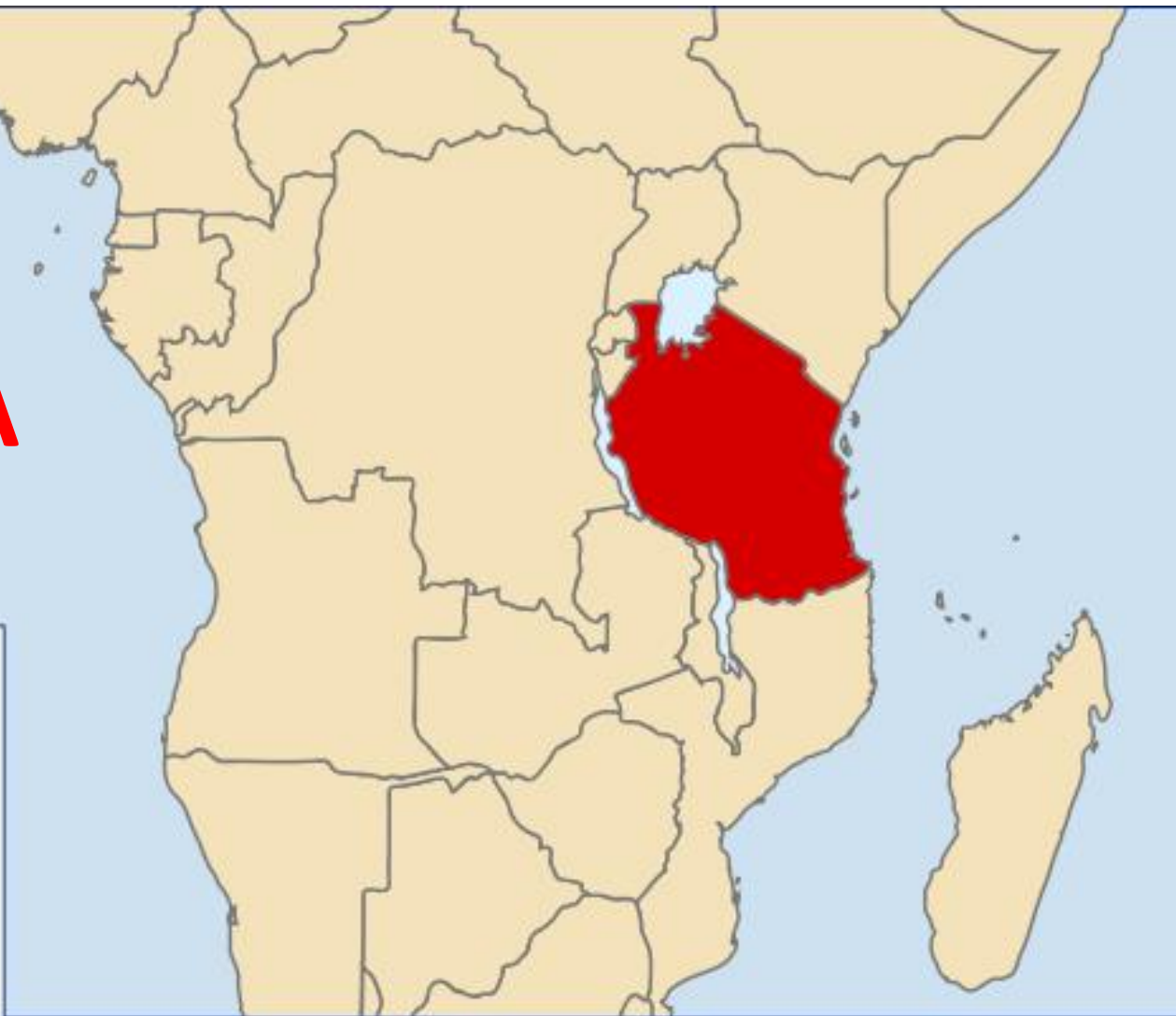


Adventures in Africa -- Drilling Water Wells While Exploring the Culture and Wildlife of Tanzania

**By
David A.V. Eckhardt**

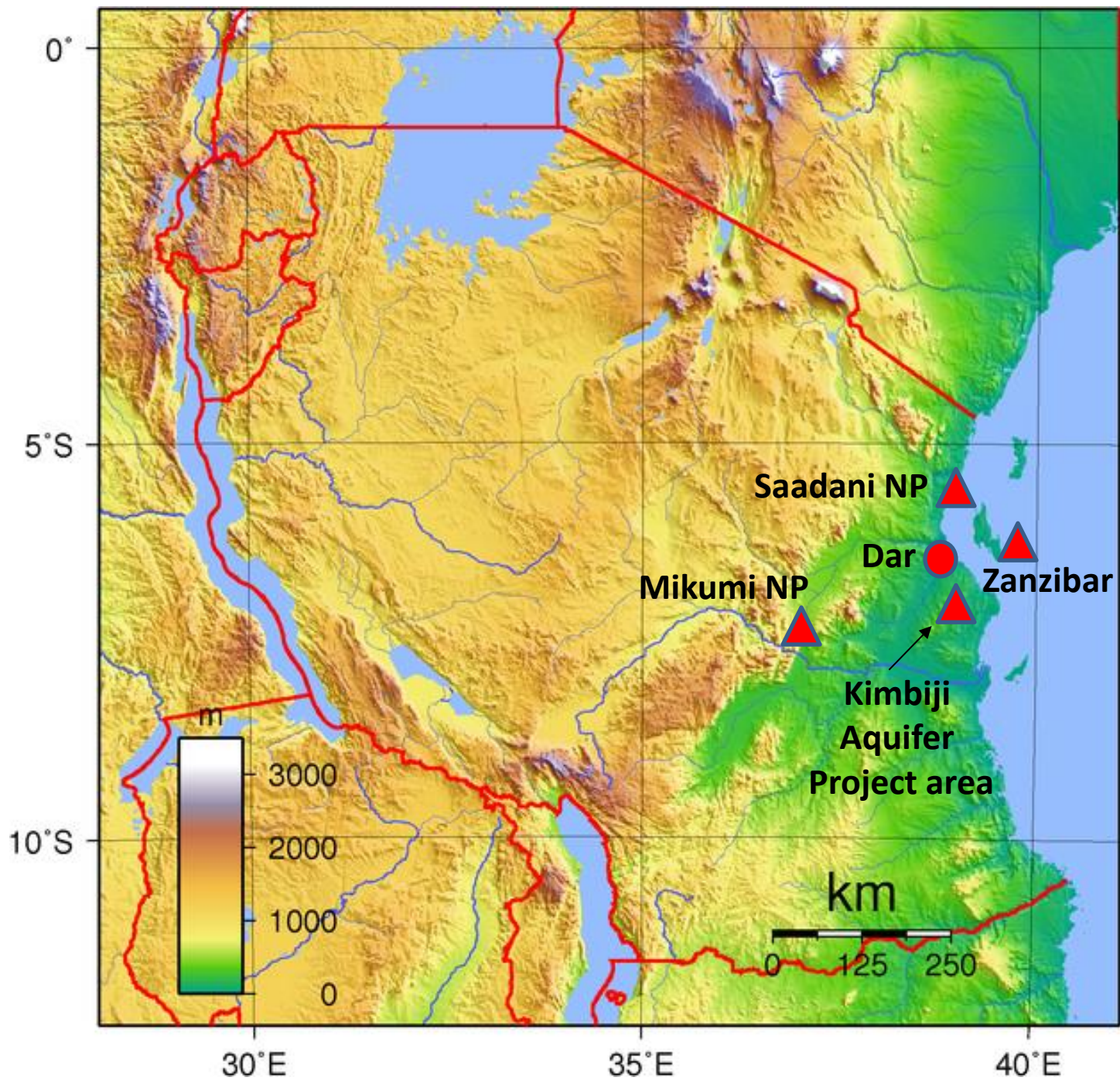


TANZANIA



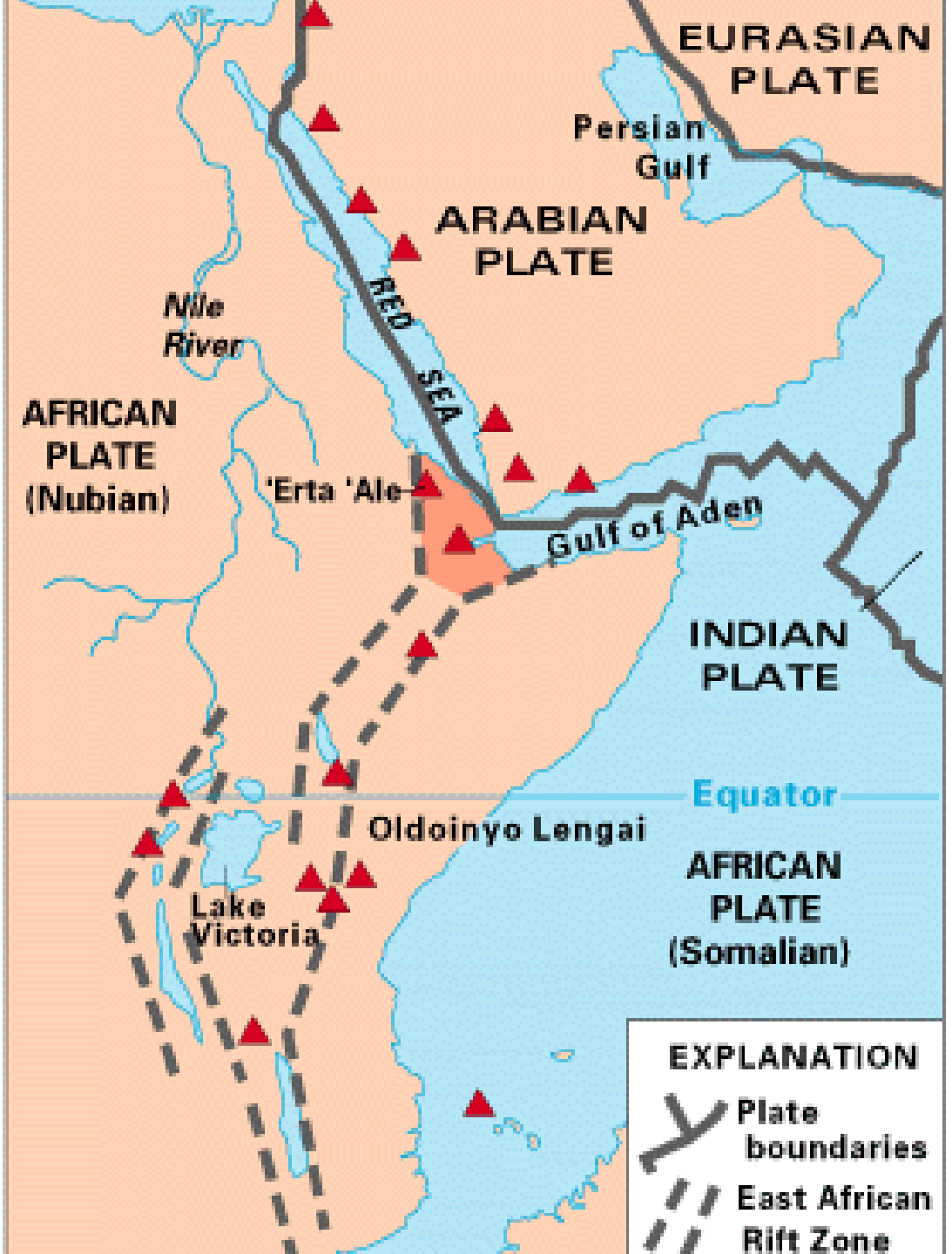








East Africa Rift Valley

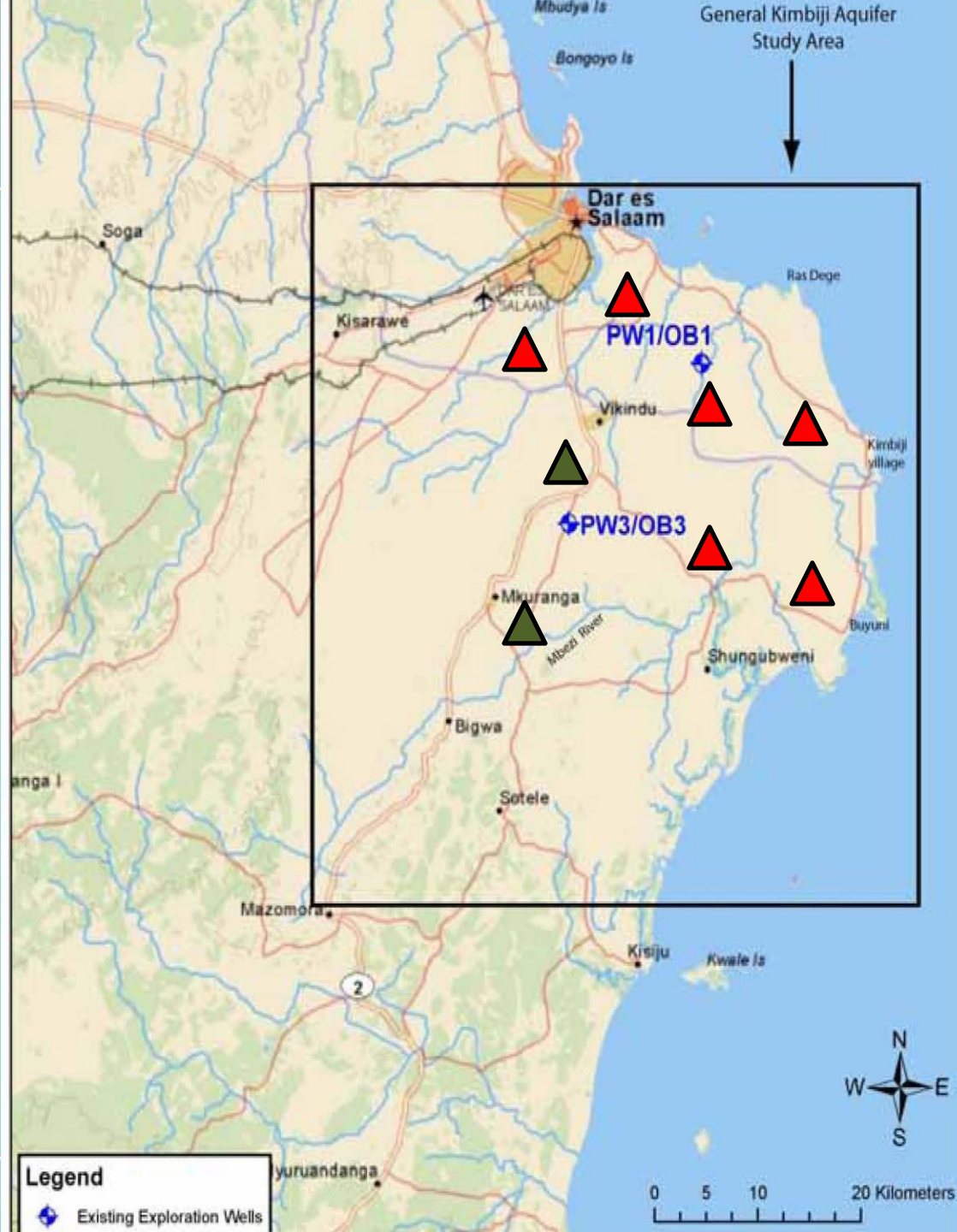


Study Area

Kimbiji Coastal Plain Aquifer Assessment

 New Exploratory
Well Sites

 New Water-Supply
Well Sites



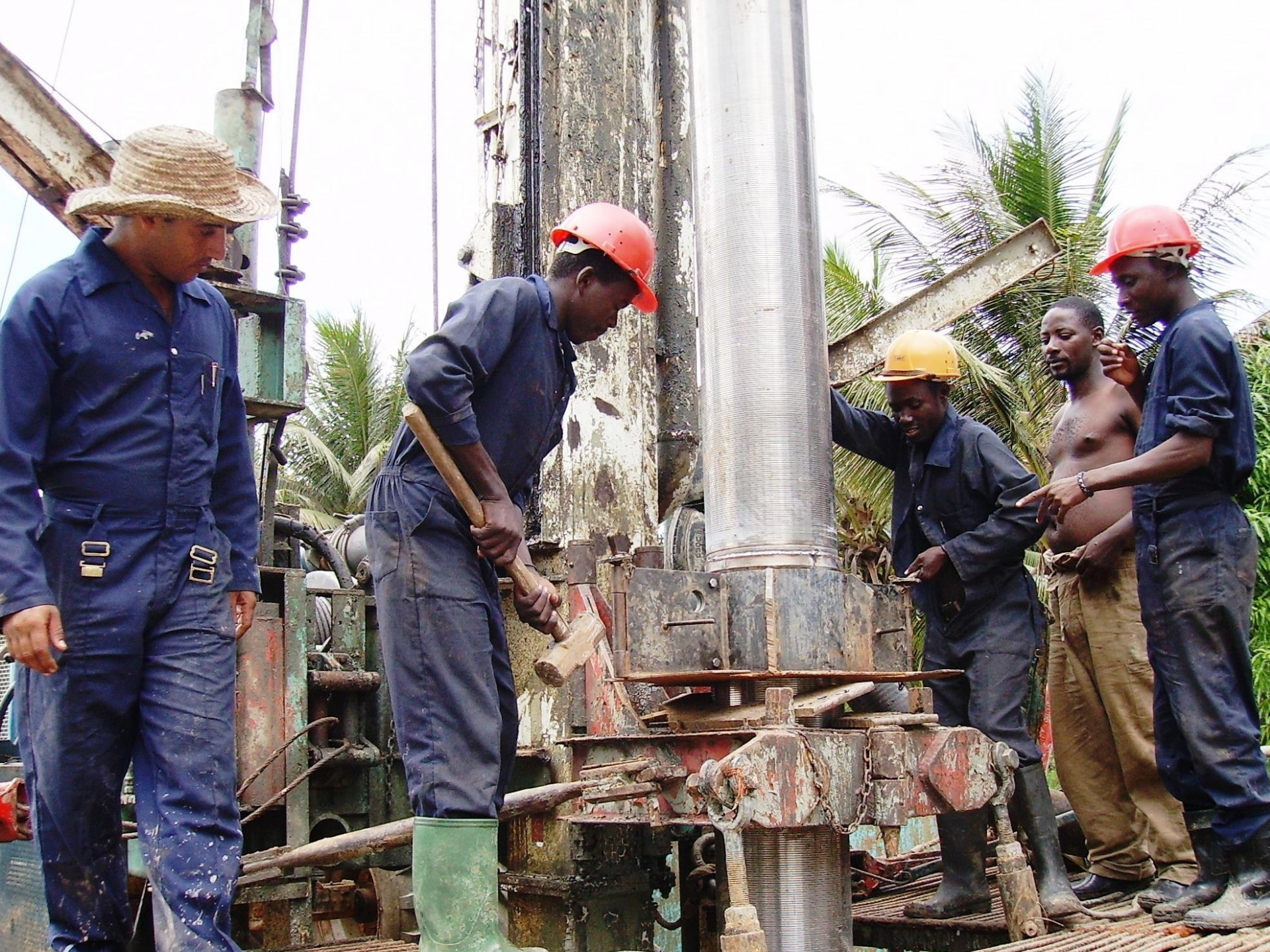
The Kimbiji Aquifer Assessment

Unconsolidated coastal plain marine sediments

- 
- **Deep Aquifer Well Drilling Program**
 - **2 Drinking Water Supply Wells**
 - **6 Exploratory Test (Monitoring) Wells**
 - **Tanzania and World Bank Partners**

**Kimbiji Coastal Plain
(view eastward
toward Indian Ocean)**







Perc Tests not required prior to installation of toilet and wash facilities!









11/09/2013 11:36

Excavated mud pits used prior to mud tank installations





14/09/2013 18:00







ZETAS

aksa

ZETAS

K.A. JOMBANG LTD.
K.A.P.T. JOMBANG LTD.
INDONESIA

K.A. JOMBANG LTD.
K.A.P.T. JOMBANG LTD.
INDONESIA







03/10/2013 07:17

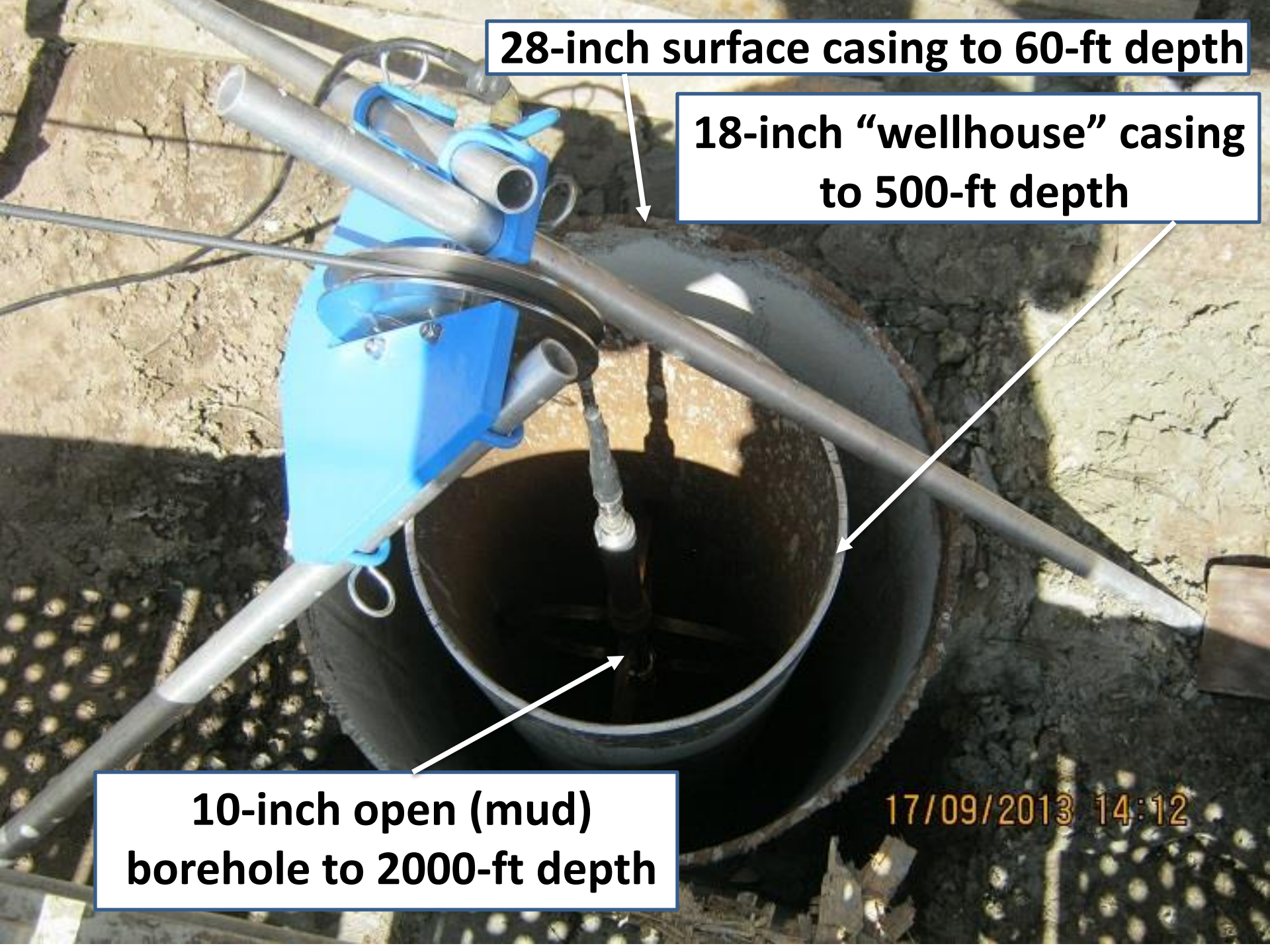


28-inch surface casing to 60-ft depth

18-inch "wellhouse" casing to 500-ft depth

10-inch open (mud) borehole to 2000-ft depth

17/09/2013 14:12



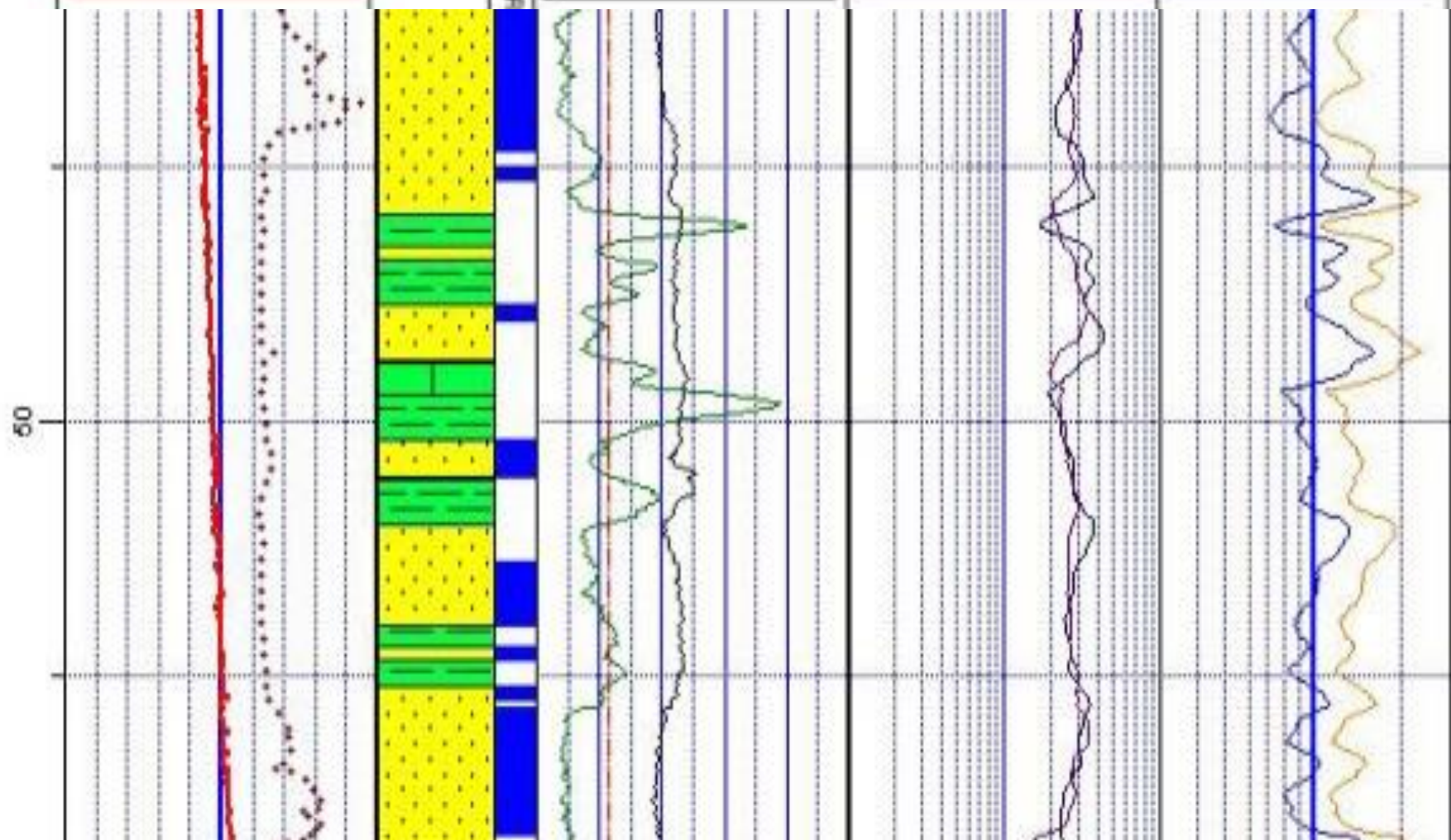


17/09/2013 11:33



10/25/2013

DEPTH	Well condition		LITHOLOGY	FRESH SALT WATER	Natural logs		Resistivity		Salinity		
	Caliper				Natural gamma		Shallow LLS		Conductivity		
	0.0	mm 500.0			0.0	cps 100.0	1.0	ohm.m 100.0	300	microS/s	3000
27	Temp. °C 28				1000.0	SP mV 1200.0	1.0	ohm.m 100.0	300	mg/l	3000





07/09/2013



Screen gravel was dug and shaken out by hand



BUILDING AFRICA

RHINO CEMENT

BUILDING AFRICA

RHINO CEMENT

RHINO CEMENT

BUILDING AFRICA

Drill-site preparations included drilling a drinking water well (150-ft deep, 2-in diameter) for on-site water use



10/08/2013

Two Videos:





Local villagers arrive during well development



Site Visit by World Bank and Tanzanian Government Officials







10/19/2013





10/09/2013 11:03

My two field-site geologists





Mikumi National Park







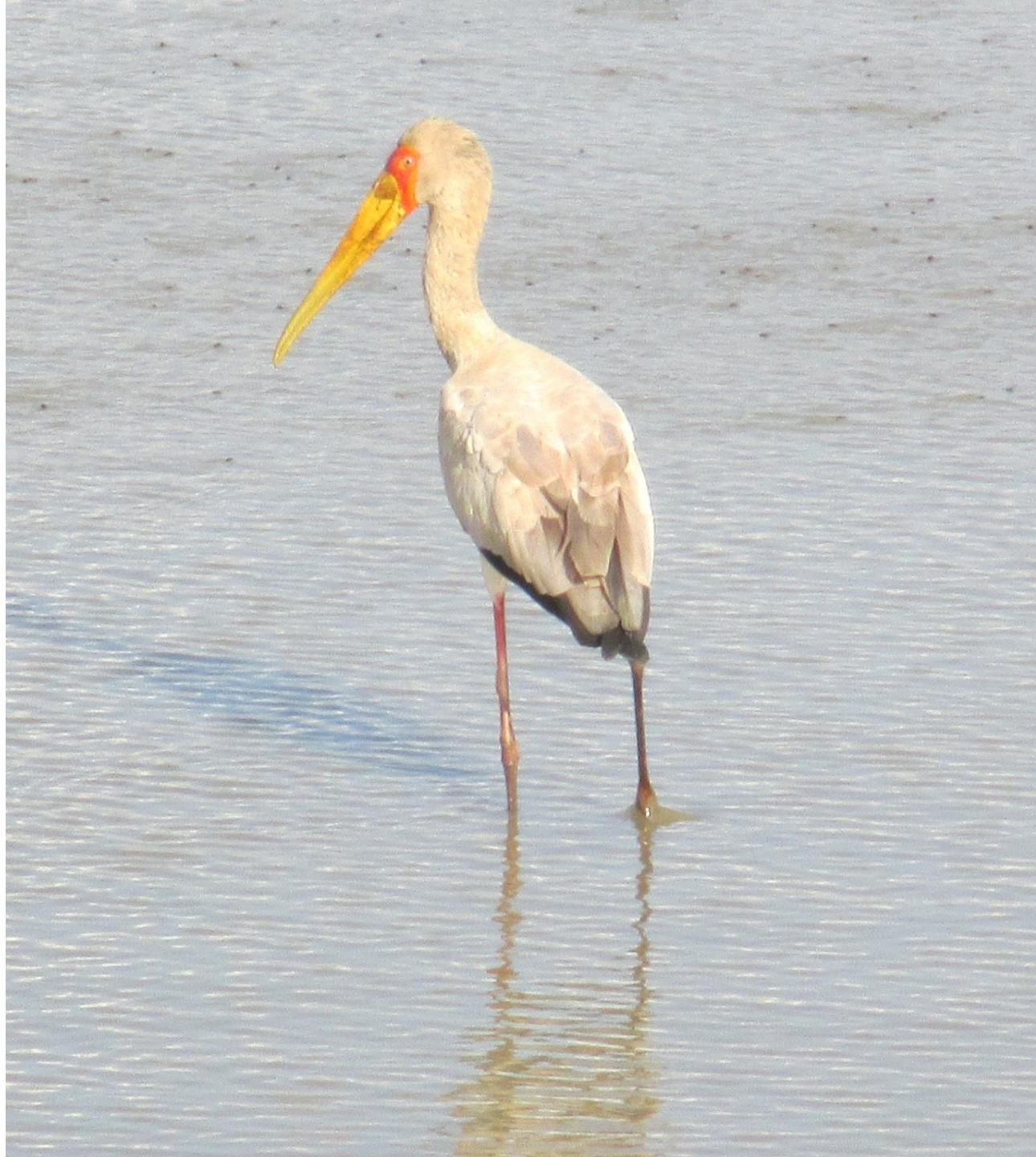






















WELCOME TO
HIPPO POOL

DEAR ESTEEM CUSTOMER
GET OUT OF YOUR VEHICLE
AND STRECH

- TAKE A PHOTO
- LEAVE THE POOL UNDISTURBED.
- BRING BACK ALL THE TRASH YOU TOOK.

PLEASE DO NOT:

- DISTURB THE WILD ANIMALS IN ANY WAY.
- CONTAMINATE WATER
- MAKE NOISE

«WHAT TO SEE?»

- HIPPOS
- CROCODILES
- WATERBIRDS



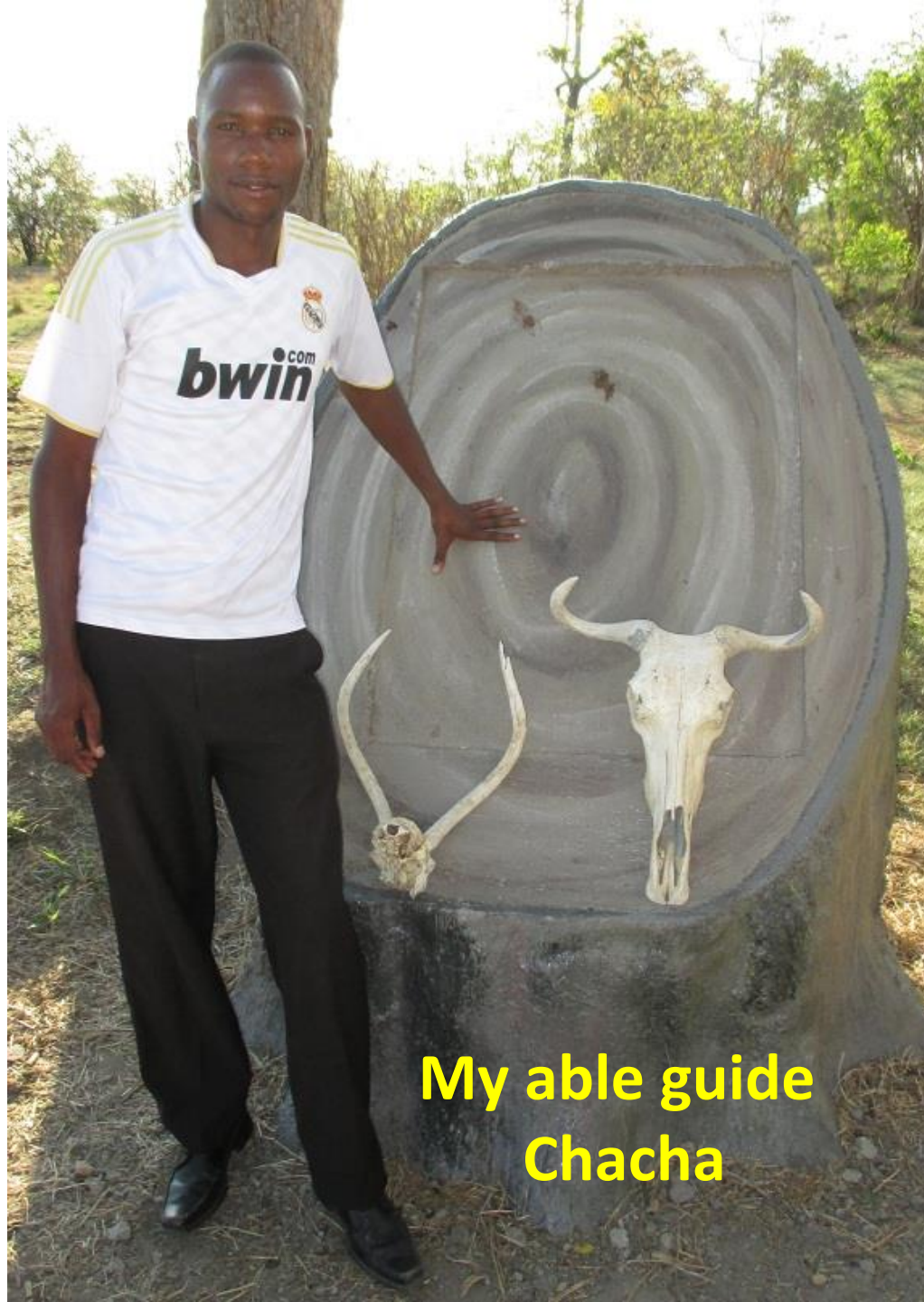












**My able guide
Chacha**







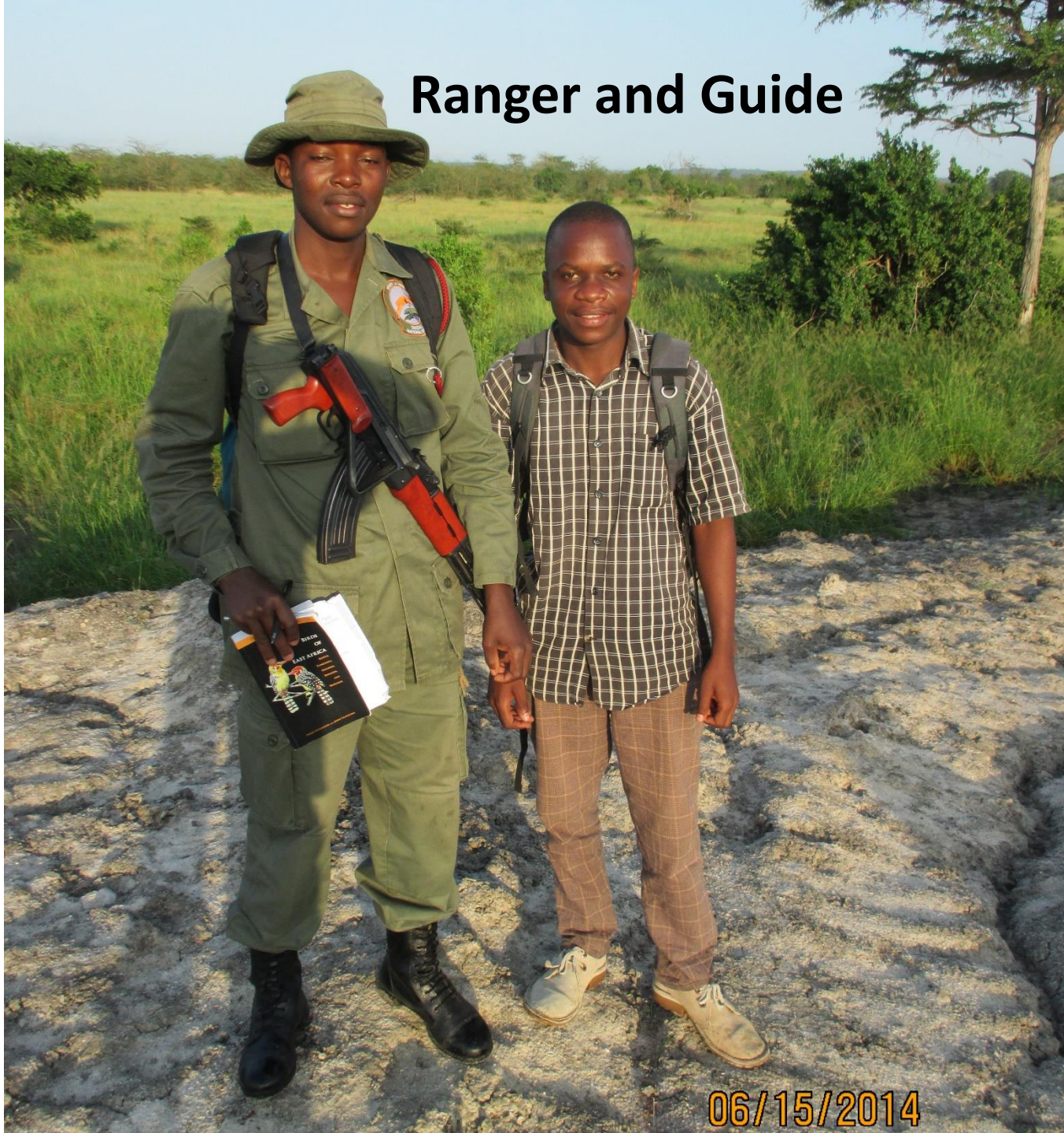


Saadani NP



06/14/2014

Ranger and Guide



06/15/2014



06/15/20



06/15/2014



06/15/20





06/15/2014











Zanzibar



10/13/2013



10/12/2013



10/12/2013



10/12/2013



Information board with three sections, partially obscured by flowers.

Information board on the ground floor.

SUNSHINE LODGE
New Travellers & Lodgers
DAILY 10.00 AM - 10.00 PM
SUNSHINE LODGE
17th FLOOR
17th FLOOR
17th FLOOR

WELCOME INSIDE
To the SUNSHINE LODGE
17th FLOOR
17th FLOOR
17th FLOOR



MABAZA LA MUNGUZA ZANU

10/13/2013

KUMBUKUMBU YA HISTORIA YA WATUMWA
MEMORY FOR THE SLAVES
SPONSORED BY: BENGT ULIN
TANZANIA CIGARETTE COMPANY
GOLDEN CONTECH
AEEA BROWN BOVERI
BKANSKA
WEDFUND
ERICSSON
MADE BY: CLARA SÖRNÄS
AT SOULETUPE PROJECT BAGAMOYO 1997 - 98

10/13/2013





10/13/2013



10/13/2013









People and Culture



10/12/2013





10/24/2013

Open sewers

Safe Water Delivery



10/24/201



06/02/2014

Home





Driving was treacherous



06/26/2014



06/26



06/14/2014





Dar es Saalam



10/12/2013



10/12/2013

**Livingston's final resting
place in Africa
before his remains
were removed to England**



06/14/2014



07/09/2



06/14/2014



10/19/2013





NPOLELA INVESTMENT
GENERAL SUPPLIES
P.O. Box 0971 DSM
TEL: 0733832476 0800 511
TYPING & PRINTING
PHOTOCOPY
LAMINATION
SCANNING

SHARP



10/21/2013



ASUBUHI
SUPU: **MENU**

- * **NGOMBE** - - - - -
- * **MBUZI** - - - - -
- * **SAMAKI** - - - - -
- * **CHAPATI** - - - - -
- * **NDIZI** - - - - -
- * **MCHEMSHO** = - - - - -
- * **MBUZI-NGOMBE** - - - - -
- * **SAMAKI** - - - - -

MCHANA CHAKULA:

- * **UGALI / WALI-ROAST** = - - - - -
- * **PILAU / CHIPS = KUKU** = - - - - -
- = **MBUZI** = - - - - -
- = **SAMAKI** - - - - -

- * **PILAU** - - - - -
- * **CHIPS** - - - - -
- * **NDIZI** - - - - -
- * **MBUZI** - - - - -
- * **KUKU** - - - - -
- * **SAMAKI** - - - - -
- * **MAYAI** - - - - -
- * **MSHIKAKI** - - - - -

Lunch Time!





Fly
Emirates

06/26/2014







PRINTING
DING

10/13/2013







10/23/2013



10/23/2013



10/23/2013



10/24/2013



10/25/2013



10/25/20





10/19/2013



10/19/2013





**Asante Sana !
Karibu Sana !**

