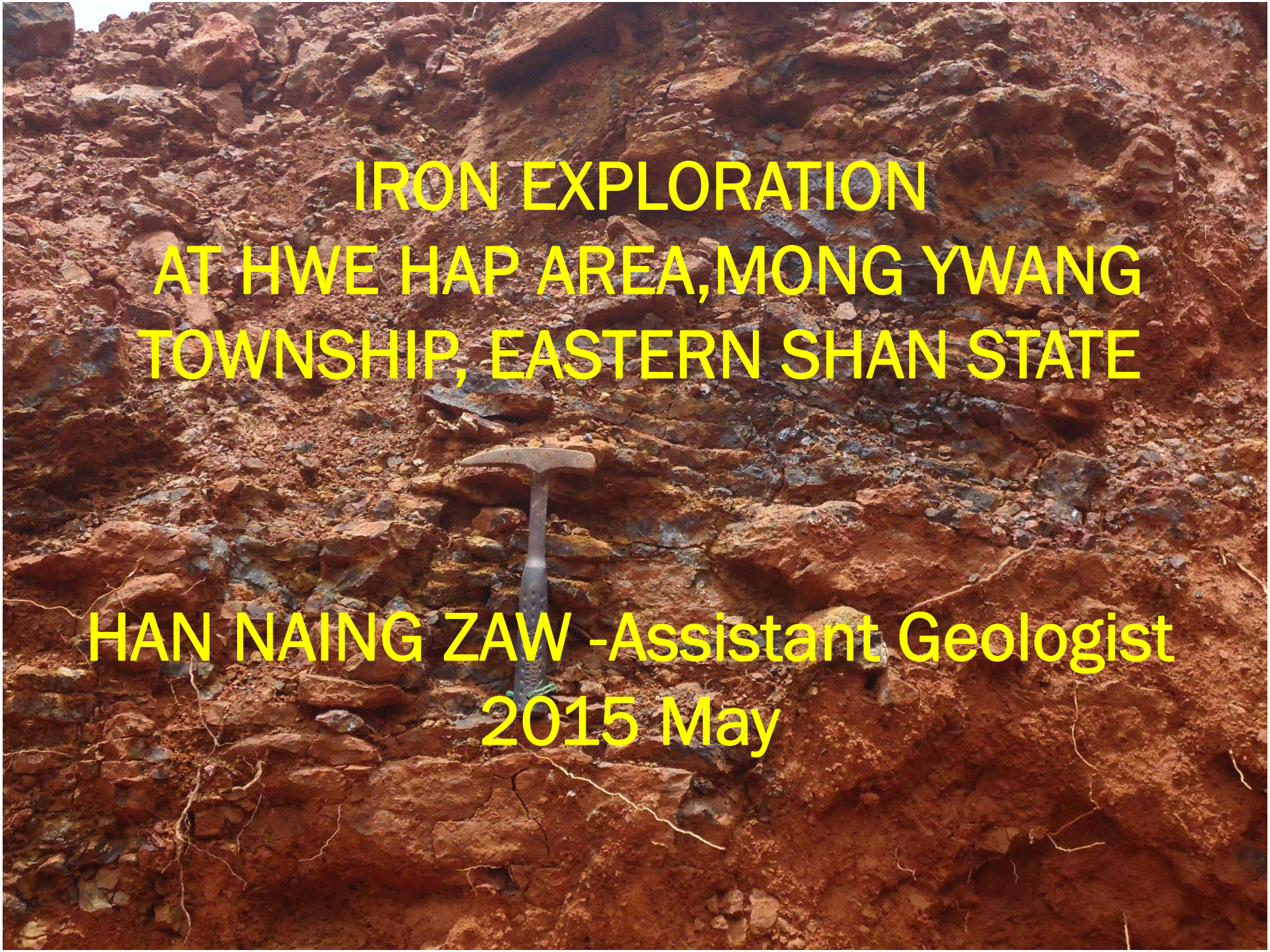


IRON EXPLORATION AT HWE HAP AREA,MONG YWANG TOWNSHIP, EASTERN SHAN STATE

HAN NAING ZAW -Assistant Geologist

2015 May

Aims

- To make detailed geological map of the study area
- To classify the lithologic units and structural features
- To identify the petrology of the rock units under polarizing microscope
- To study and determine the ore texture under ore microscope
- To examine the alteration of the host rock and related structure and mineralization of the study area
- To detect the geochemical associations of the ores in the study area

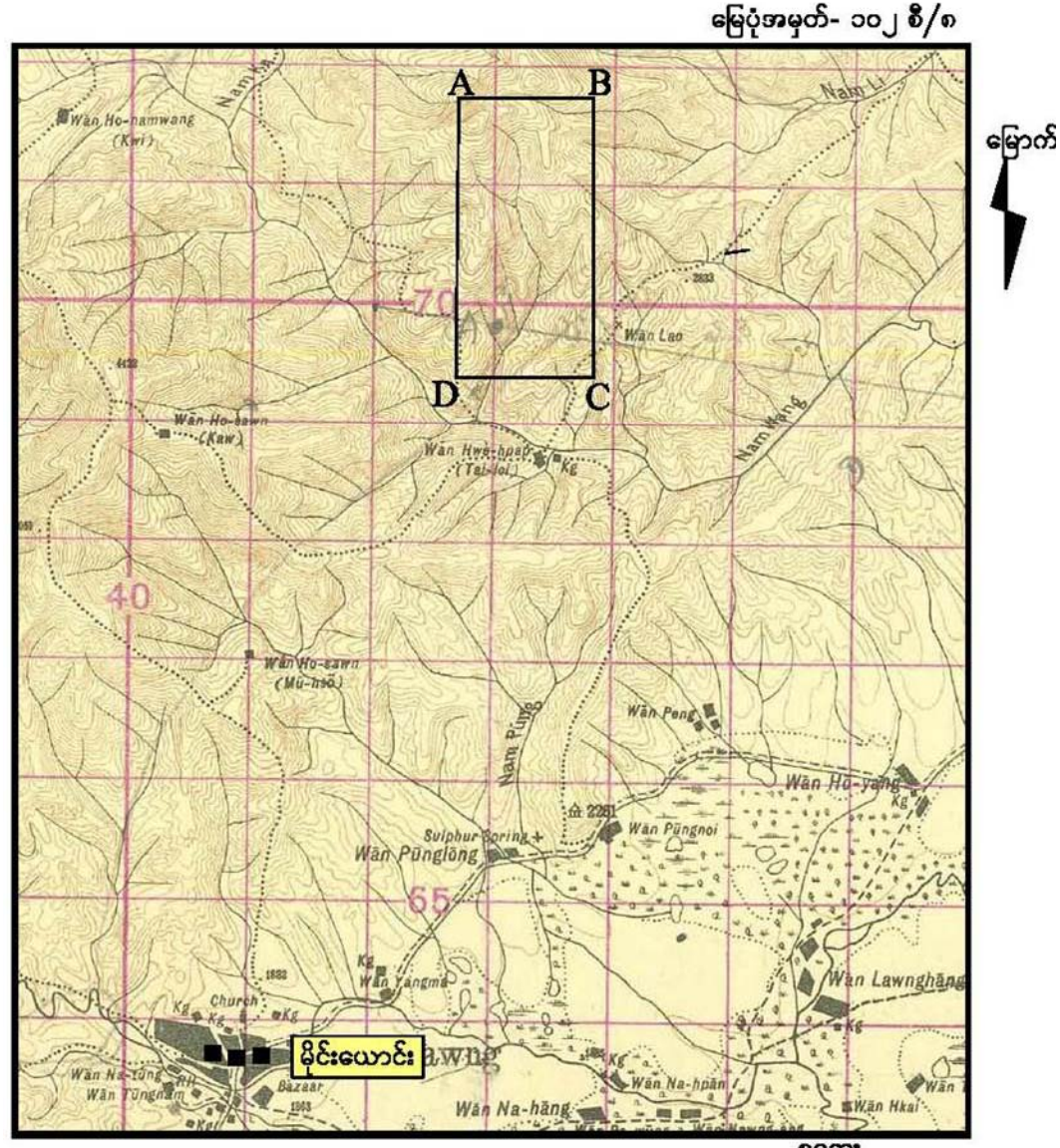
Previous Work

- Carried out Iron Exploration done by Geologist U Khin Myint and parties in 1997 at Nam Wan area.
- Carried out Regional Geological Mapping done by Deputy Director U Myint Ko and parties during 2001 and 2005 field season at MongYwang-MongYu and Suplwe area.
- Carried out Iron Exploration done by Deputy Director U Key Phe and parties in 2014 at Hwe Hpa area.

Location Map of Hwe Hpa Iron Exploration Area

- **Location**

  102C/8(UTM 21100-8)
  A-427717
  B-438717
  C-438694
  D-427694

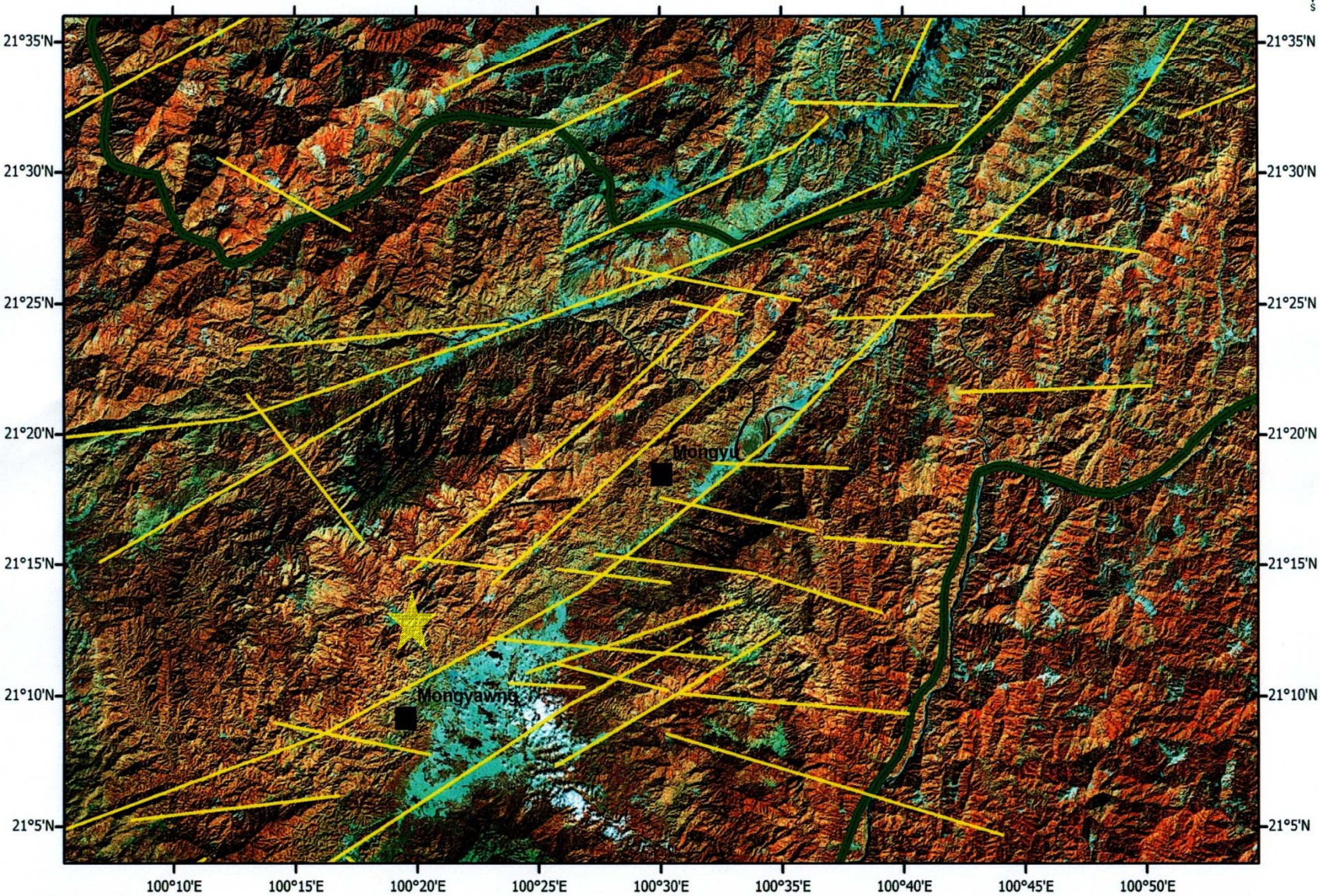


INDEX
A- 427717,- B- 438717, C- 438694, D- 427694

ACCESSIBILITY

- Yangon,Mandalay,Naypyitaw to Kyainge Tong,Tachileik by Air Plane
- Kyainge Tong, Tachileik to Mong Ywang by Car (All Seasons)
- Mong Ywang to Hwe Hpa (Field Area) by Car in Dry Season and by Motorcycle and on Foot in All Seasons

False Color Satellite Image of Mong yawng - Mong Yu Area, Eastern Shan State

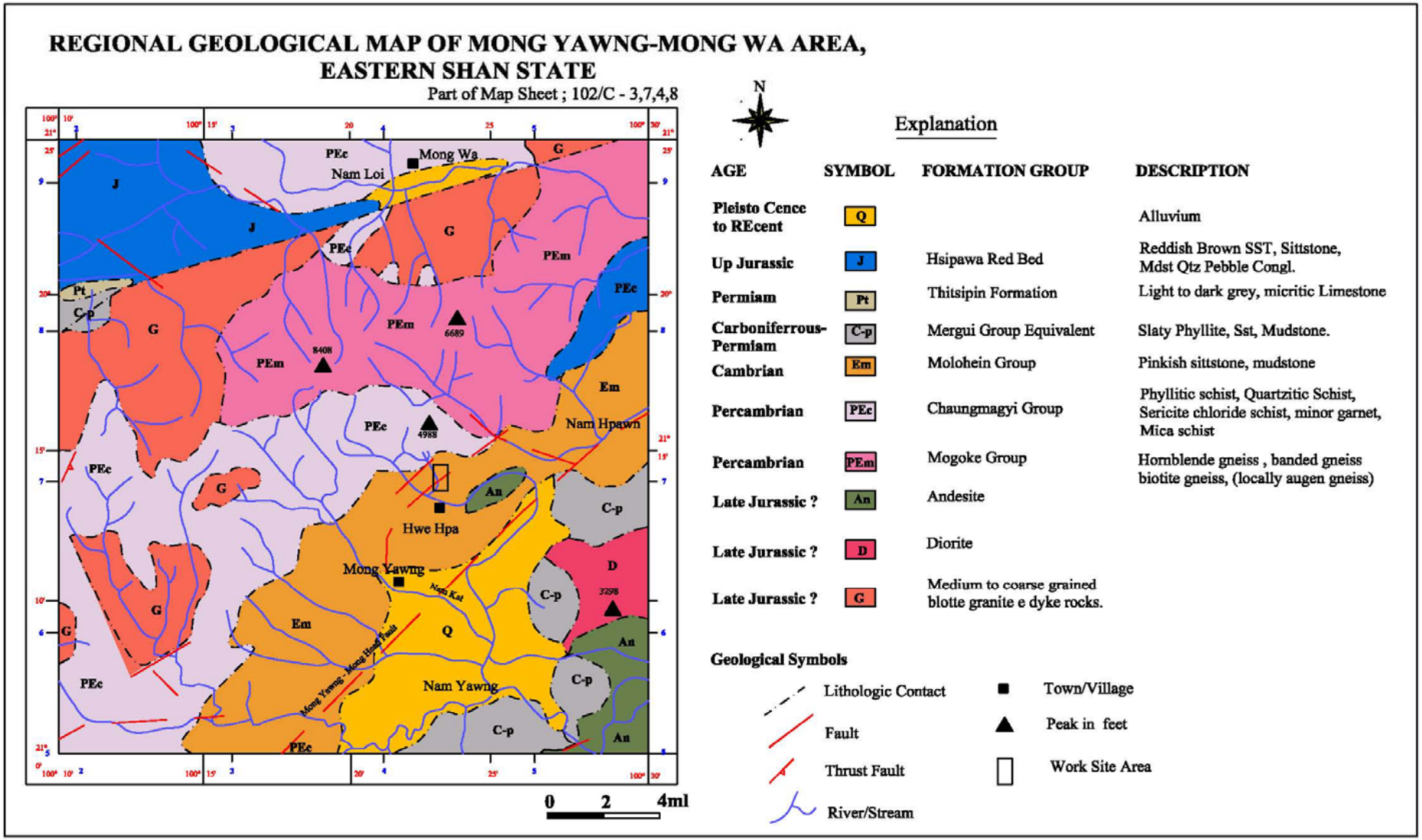


Dr. Myint Soe
D.G.S.E
Dec, 2013

Indian Grid 1954

0 2.5 5 10 Miles

0 2.5 5 10 Kilometers



After DGSE 2001-2005

Quartz Pebble Conglomerate

643434E,2348726N Hwe Leik Creek, SW of Iron Worksite 1

Phyllitic Mud

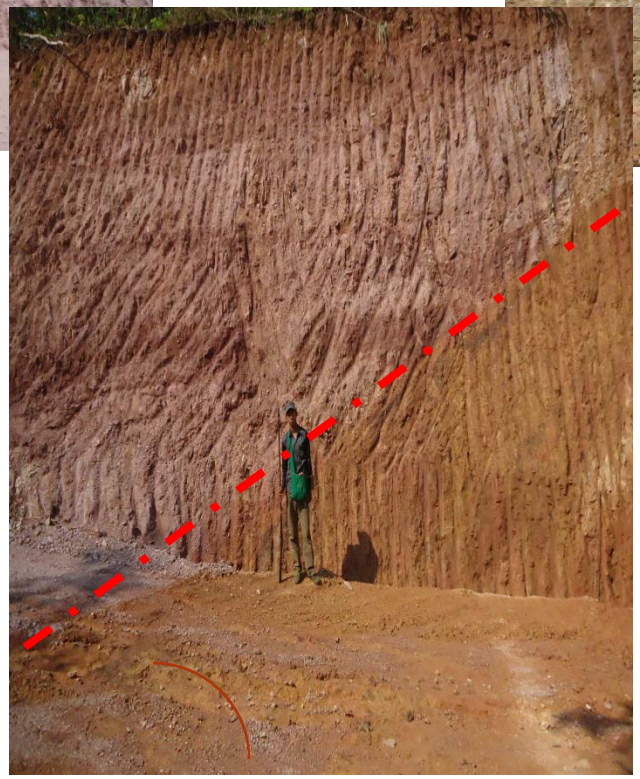
Oxidised QV in Phy Mud

643763E,2349139N Highly Jointed Mudstone

Quartzite? and Weathered granite Outcrop, Hwe Hpa Hamlet 643559E,2347012N

Clay Alteration in Phyllitic Mudstone

Clay Alteration in Phyllitic Mudstone



WEST

EAST

Contact of Mudstone and Silt stone with altered qtz veins, 643275E,2348788N

Altered Qtz veins bearing Pinkish Brown colored Quartzite? 643270E,2348709N

Quartz Breccia

Calcitic

Drill Core from MH work site 1

Iron Ore Core, MH work site 1

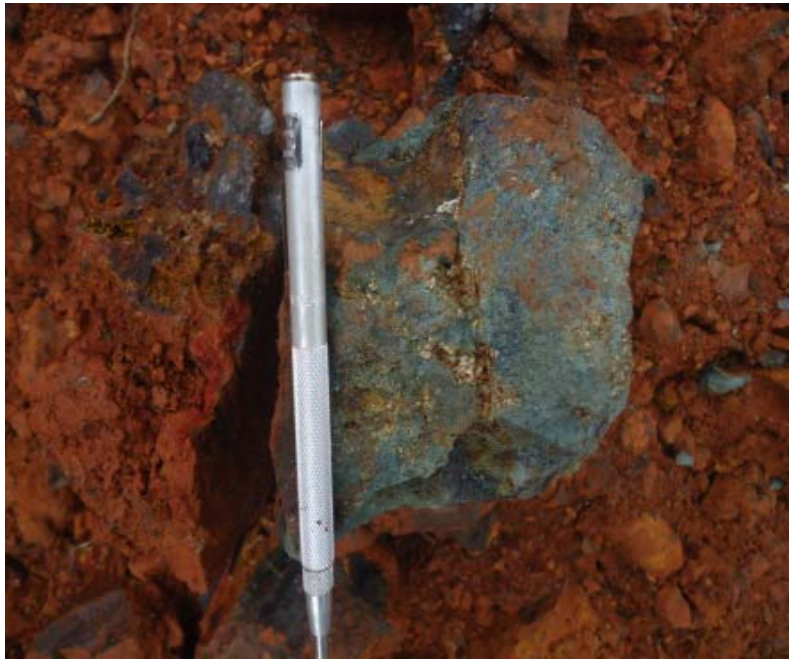
643488E,2348789N 7m×1.5m Iron Outcrop

MH work site 1

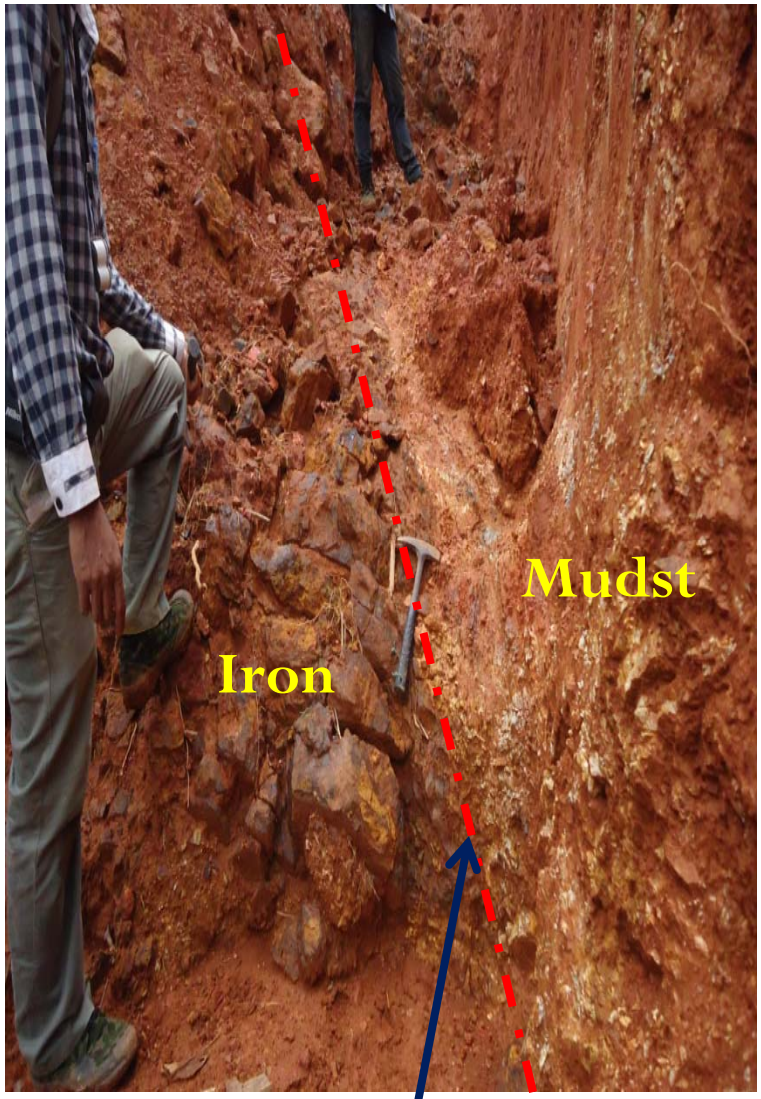
Work Site 1

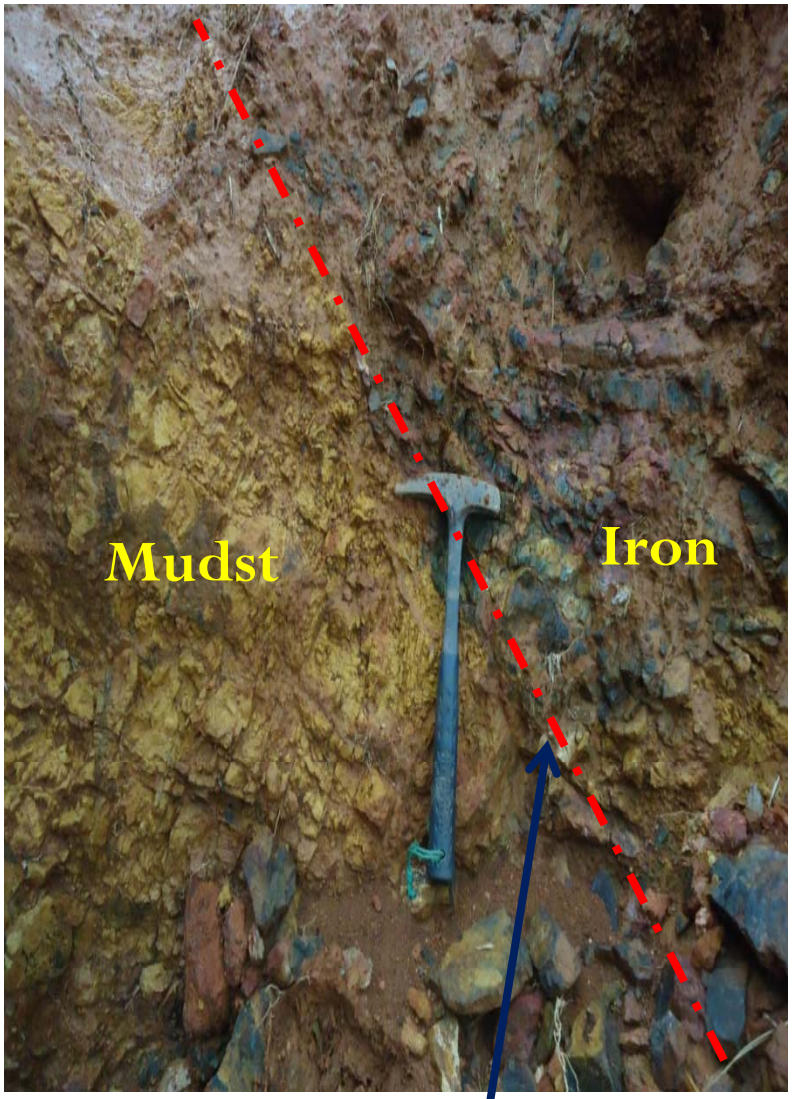
Work Site 1

Work Site 1



Quarzt grains and Sulphides in Iron Ore Core,
MH work site 1





MH work site 1

330° Vertical Structure

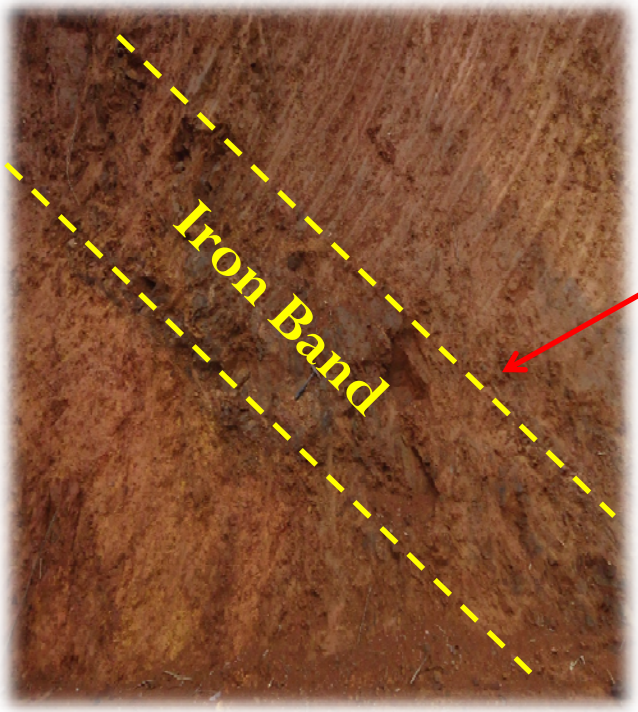
290° Vertical Structure

Bornite on Iron Ore

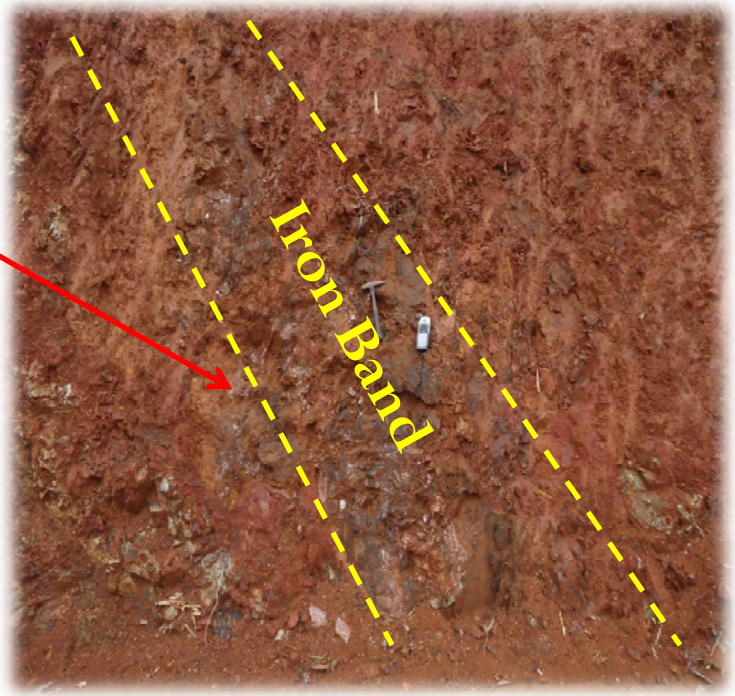
Horizontal and Vertical Iron Band

Collecting Geochemical Soil Samples

Iron Outcrop from MH work site 1



30°Trend



New Iron Band from
MH work site 1
(lower Level)

15°Trend

MH work site 2

Volcanic Rock, close to Iron Exposure from MH work site 2, 643632E,2348673N

Iron Exposures from MH work site 2

30°/72°E Iron Outcrop, fro MH work site 2

Pseudo-layered Iron Outcrop

Jointed Iron Outcrop

Iron Outcrop from MH work site2

Future Plan

- Thin Section Analysis
- Polished Section Analysis
- To carry out microscopic study
- Analysis for XRD/XRF
- To carry out Geochemical study
- And so on……

THANK YOU FOR YOUR ATTENTION