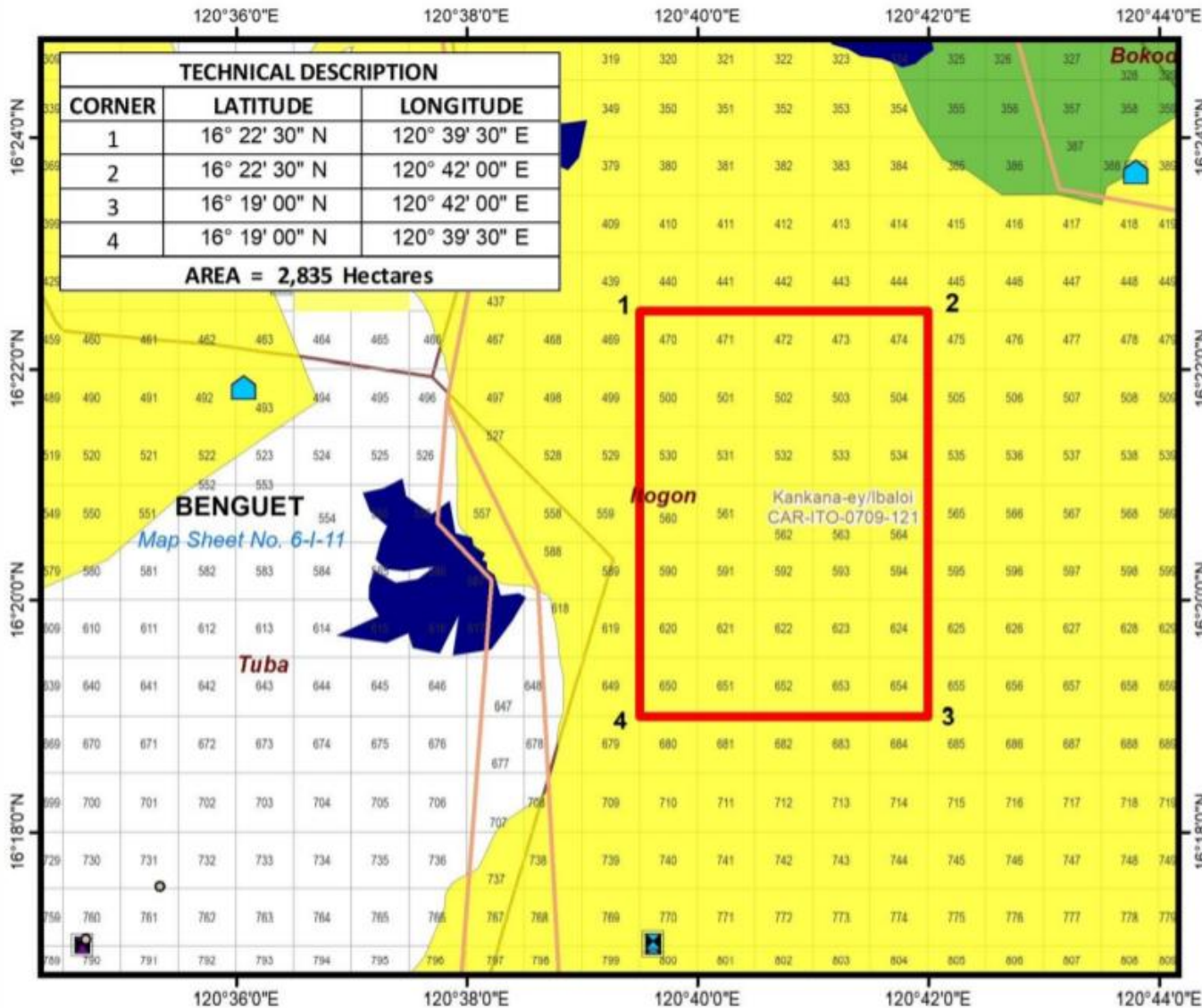


3RD OPEN AND COMPETITIVE SELECTION PROCESS

Area 2 - Itogon Geothermal Prospect

Benguet



Scale : 1:100,000

0 1 2 3 4 Km

Legend :

- HSC
- HSC Application
- RE Block
- RE Map Sheet
- Municipal Boundary
- Provincial Boundary
- Ancestral Domain
- Protected Area/ NIPAS
- FMB's Tenured Area (CBFMA)
- Pre-Determined Area

DATUM: PRS '92

Note:

- All energy resource contract and applied areas herein plotted are based on ITMS issued contract maps and verified applications as of 19 Aug 2020.
- Political boundaries are approximate, not authoritative, and subject to further research/validation.
- The source of information for protected areas, forest tenural instrument, and Ancestral Domain is the Philippine Geoportol Project website and must be validated with BMB-DENR, FMB-DENR, and NCIP respectively.

DEPARTMENT OF ENERGY
Information Technology and Management Services
Information Services Division

PREPARED BY: ARME N. RIVERA	APPROVED BY: AAP
VERIFIED BY: RCI	DATE PREPARED: 19 AUG 2020

POLYGON ID: _____

DBASE FILENAME: _____

MAP NO.: **BM-GML-2020-08-004**

Itogon Geothermal Field

Exploration History

- BED (now DOE) and JICA conducted an extensive exploration program from 1982 to 1985.
- The studies consisted of (a) reconnaissance to semi-detailed geological, geochemical, and geophysical surveys; (b) drilling of seven (7) shallow thermal gradient holes; (c) drilling of a 2,000 meter-depth-exploratory well (Acupan-1D)



Itogon Geothermal Field

Summary of Resource Assessment

- **Thermal manifestations** hot springs, and warm springs.
- **AC-1D's bottomhole temperature** is 220°C, confirming the estimated reservoir temperature of 229°C to 236°C.
- **Geothermal anomaly** covering approximately 3.5sqkm.

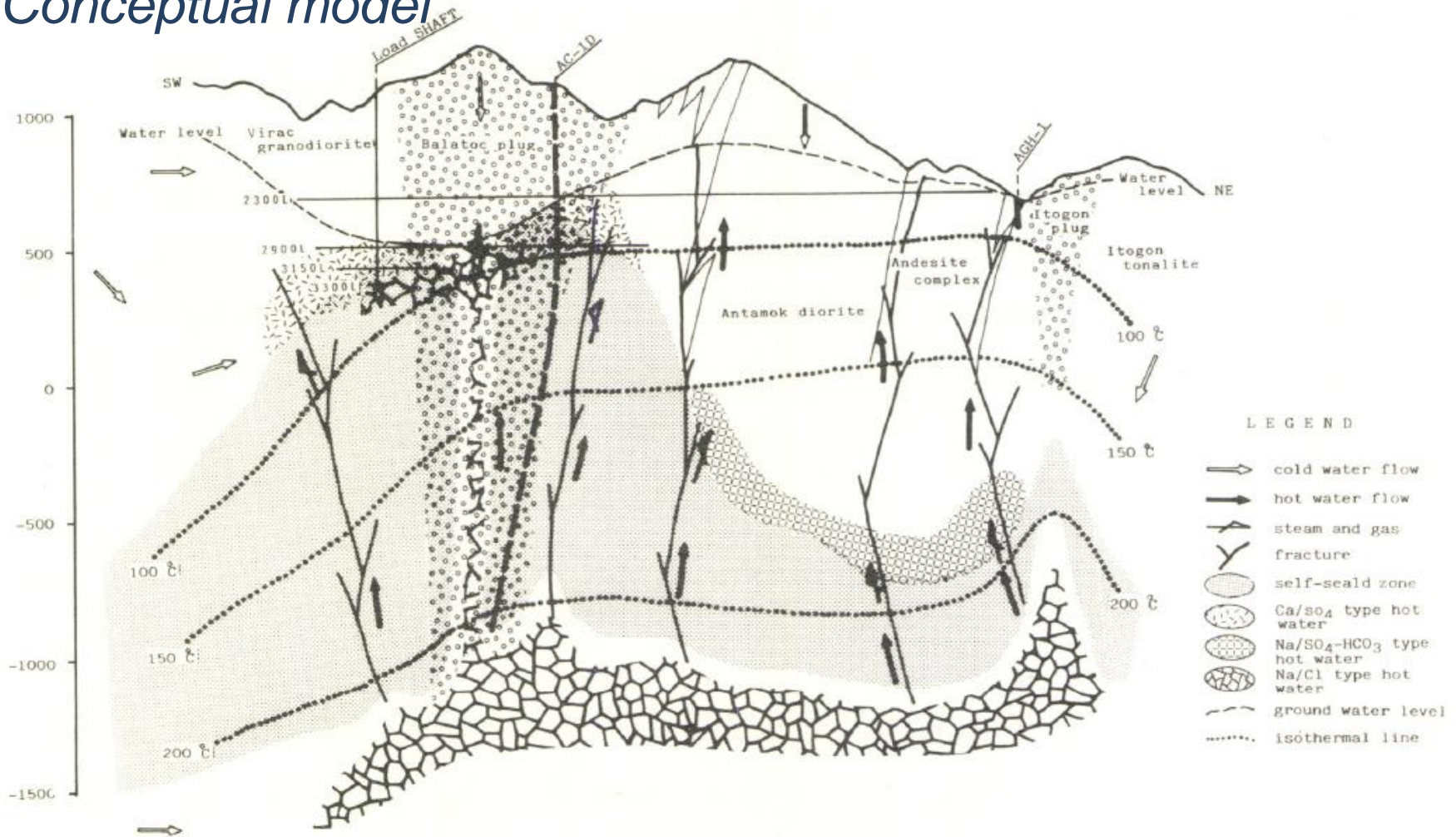


Drilling of Exploratory Well AC-1D



Itogon Geothermal Field

Conceptual model



- Estimated with **9MW geothermal resource potential** capacity.



Itogon Geothermal Field

Considerations on Development:

- Limited permeability as seen from AC-1D well test
- Within NIPAS Area.
- Within Indigenous Cultural Community.

