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A REVIEW OF THE HAWAII GEOTHERMAL/CABLE
PROJECT. THE KILAUEA EAST RIFT ZONE:
GEOTHERMAL EVALUATION OF THE EXISTING DATA.
ANNEX B, MAIN TECHNICAL WELL DATA (FIGURES)

by ENEL ENTE NAZIONALE PER L'ENERGIA
ELETTRICA - ITALY JUNE 1991

STATE OF HAWAII - U.S.A.
DEPARTMENT OF BUSINESS AND ECONOMIC DEVELOPMENT

CONTRACT No. 27272

AGREEMENT FOR ADVISORY SERVICES
FOR THE GEOTHERMAL/CABLE PROJECT



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THE KILAUEA EAST RIFT ZONE :
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ANNEX B
MAIN TECHNICAL WELL DATA

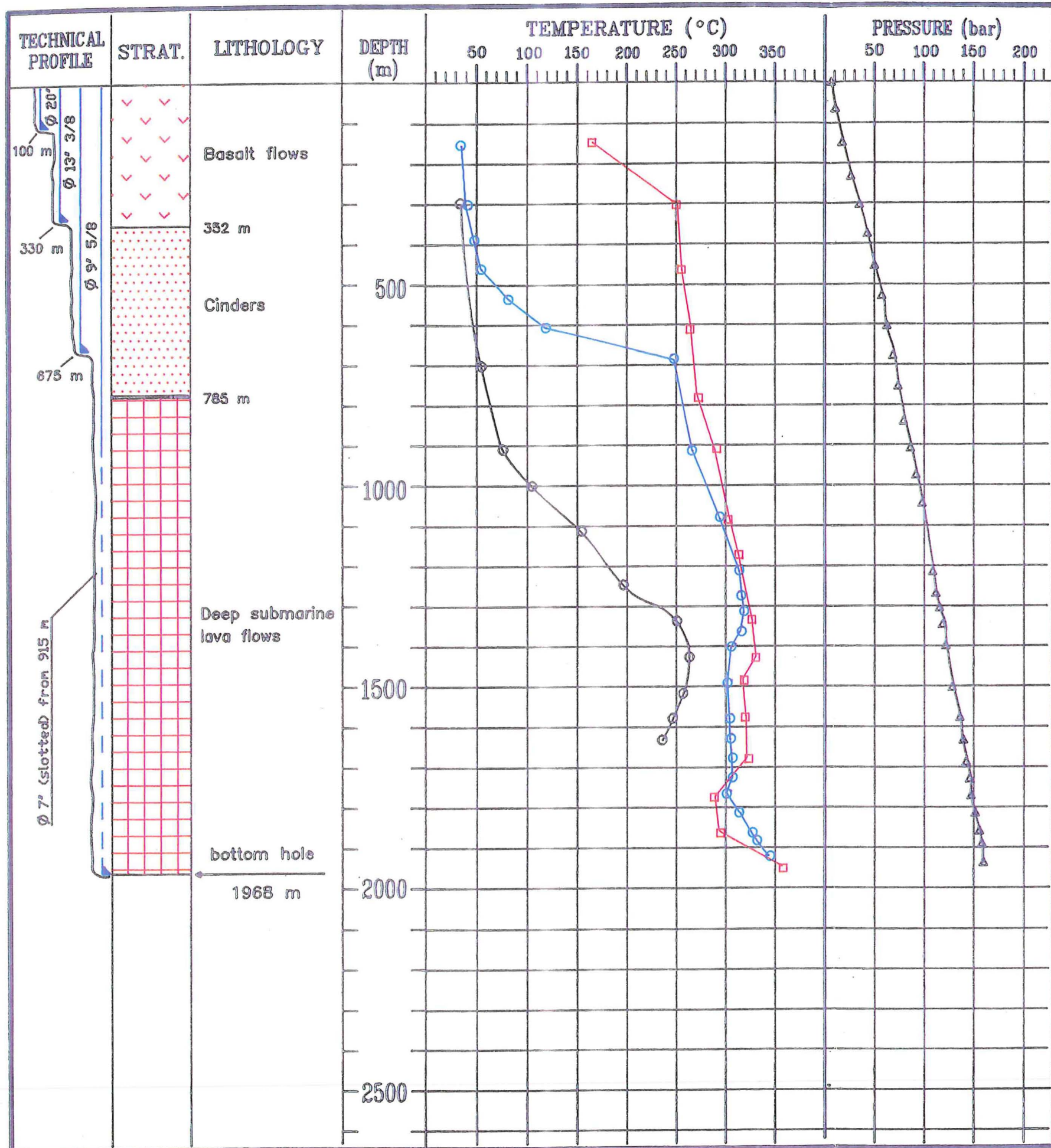
- Figures -

June 1991



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- Temp. survey after mud circ. - 5/1/76
- Temp. survey 66 days after shut down - 9/26/76
- Temp. survey 3 days after a 4 hours-flow - 7/22/76
- △ Pressure survey - 7/29/76

MAIN PRODUCTION CHARACTERISTICS

Total flow rate : 50000 Kg/h ($\frac{\text{Steam } 43\%}{\text{Water } 57\%}$)
 Flowing well-head pressure : 12 bar abs
 Enthalpy : 1650 KJ/Kg
 Max. Temp. recorded : 358°C at 1968 m depth

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THE KILAUEA EAST RIFT ZONE :
 GEOTHERMAL EVALUATION OF THE EXISTING DATA

FIG. 1/An.B

HGP-A WELL

Latitude : 19° 28' 15" Owner : UNIVERSITY OF HAWAII
 Longitude : 154° 53' 34" Date of completion : Jun. 1976
 Elevation : 183 m

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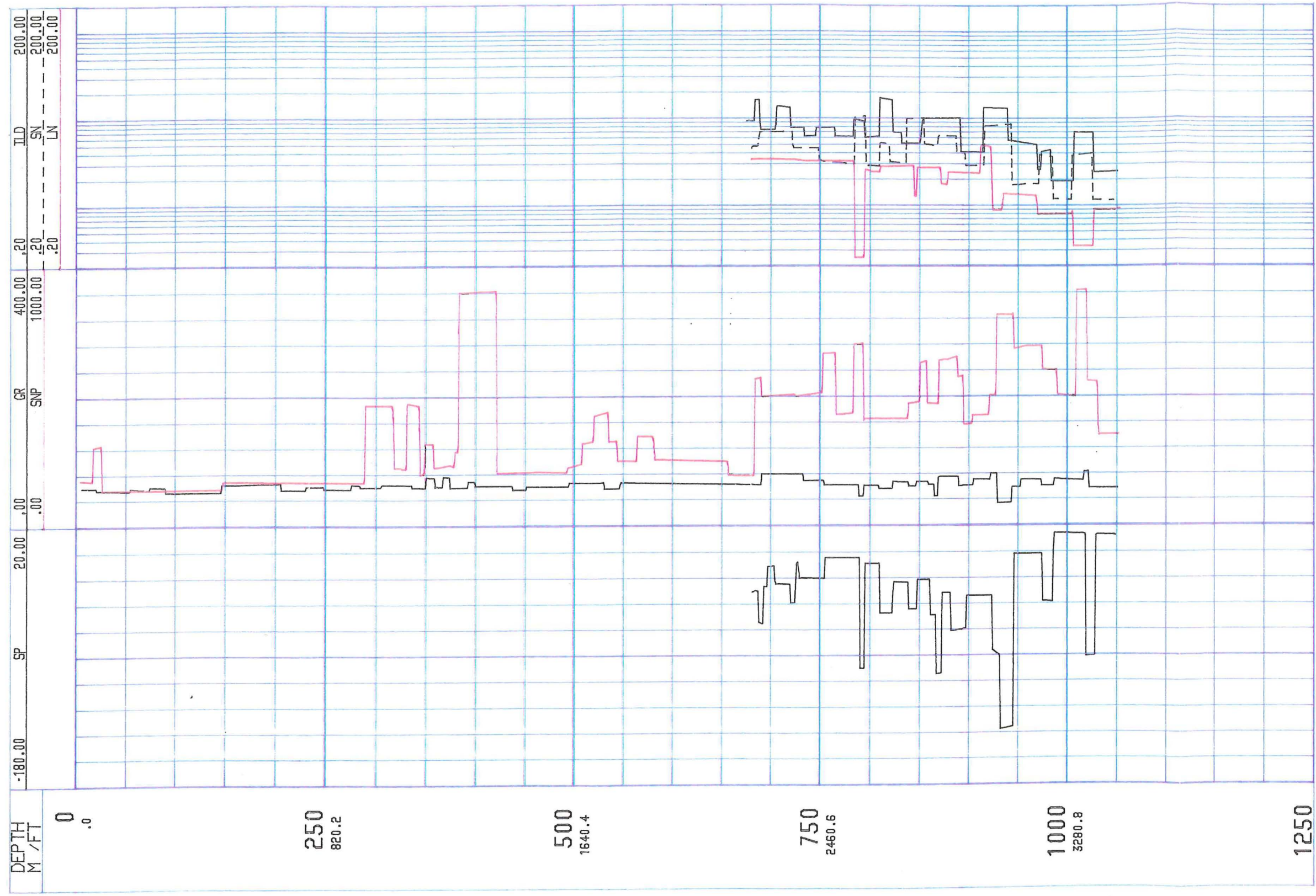


Fig. 2/An.B - HGP-A Well - Geophysical logs

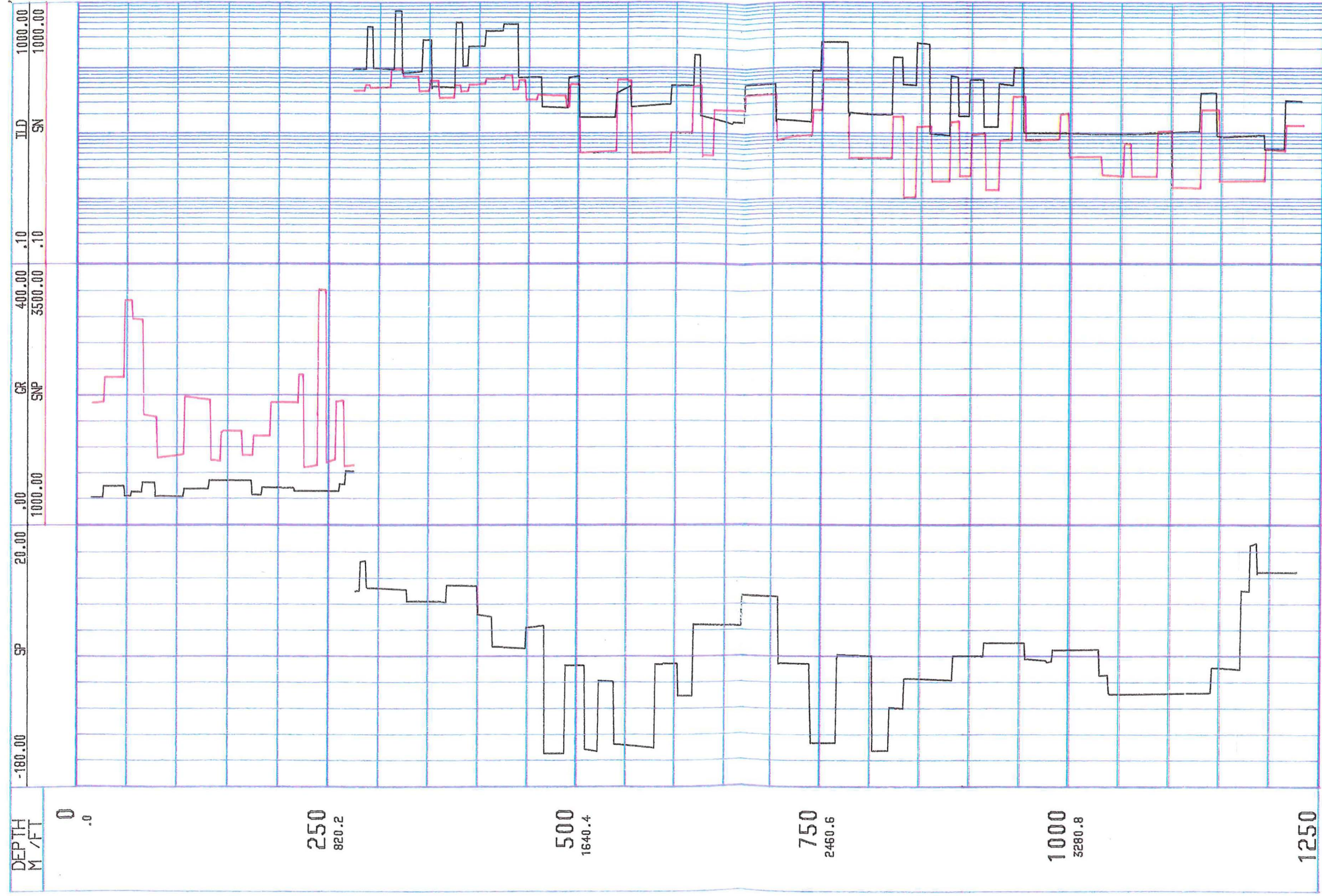
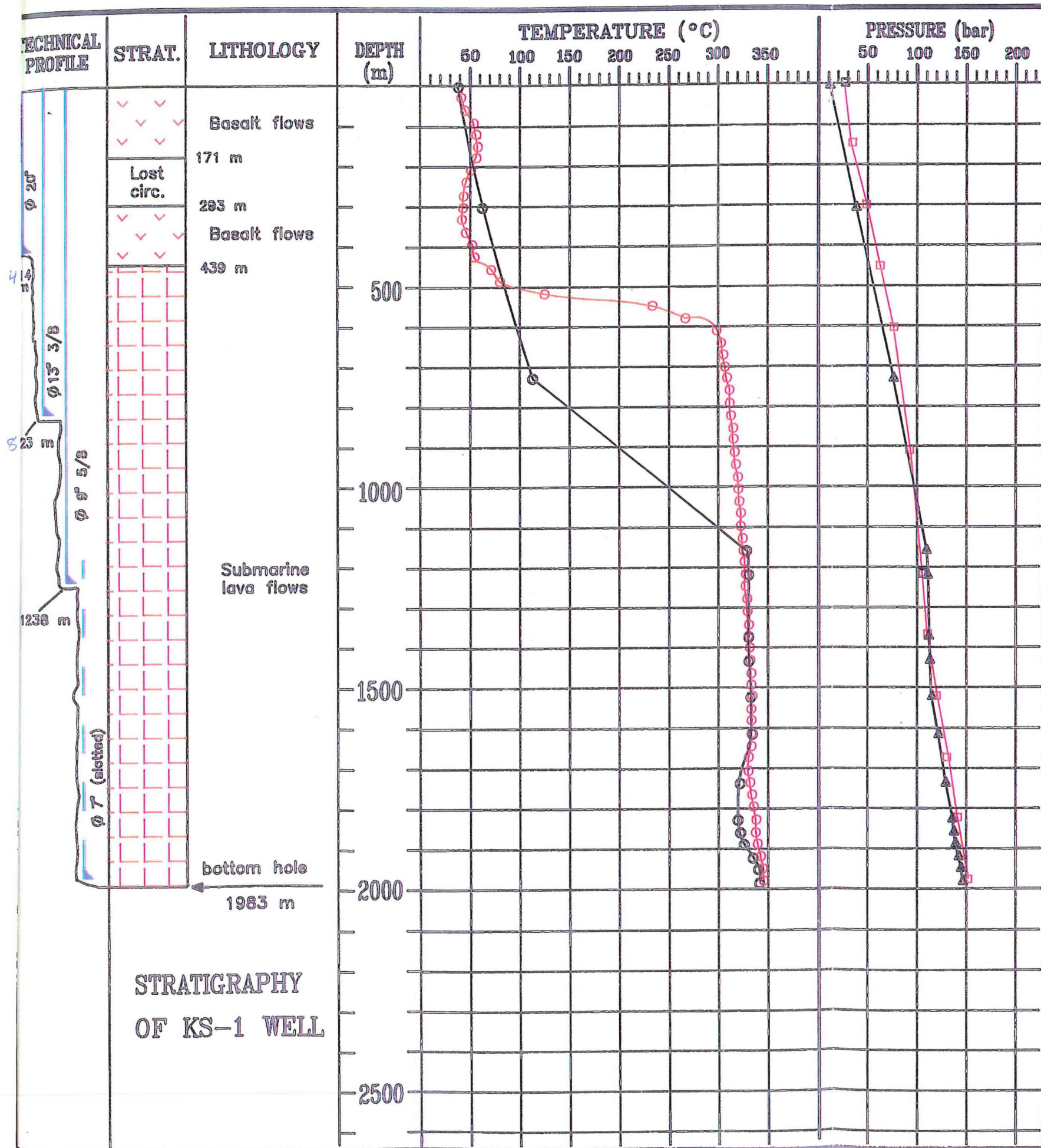


Fig. 4/An.B - KS-1 Well - Geophysical logs



- Temp. survey 7 days after shut-in - 11/7/85
- Temp. survey 39 days after shut-in - 12/9/85
- △ Pressure survey - 11/7/85
- Pressure survey - 12/9/85

MAIN PRODUCTION CHARACTERISTICS	
Total flow rate	: 36000 Kg/h (Steam 83% / Water 17%)
Flowing well-head pressure	: 11.5 bar abs
Enthalpy	: 2417 KJ/Kg
Max. Temp. recorded	: 346°C at 1983 m depth

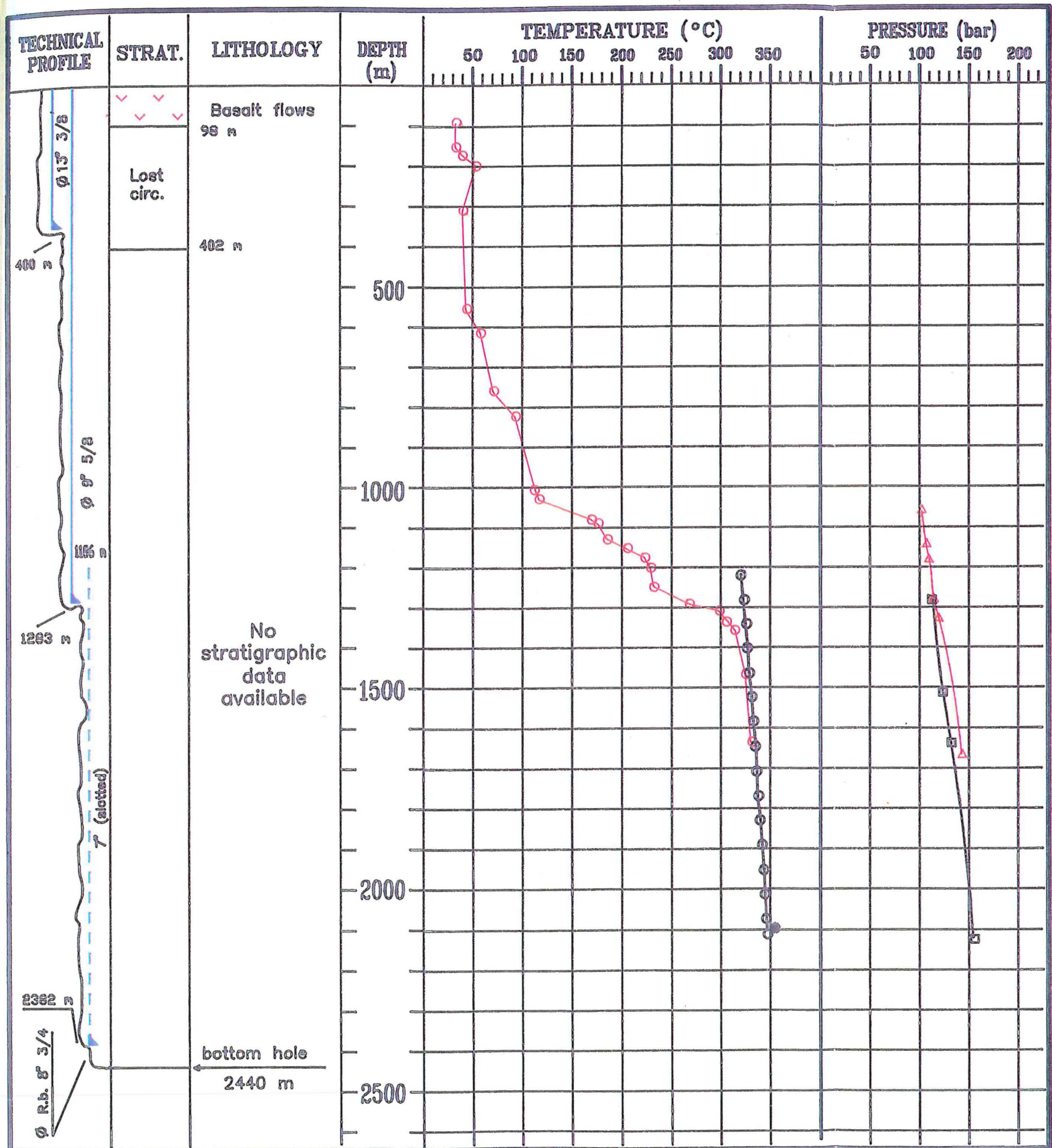
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FIG. 5/An.B

KS-1A WELL

Latitude : 19° 28' 21" Owner : P.G.V.
 Longitude : 154° 53' 21" Date of completion : Sept. 1985
 Elevation : 189 m



- Bottom hole temperature
- Temp. survey - 4/14/82
- Temp. survey after flow test - 4/29/82
- △ Pressure survey - 4/14/82
- Pressure survey - 4/29/82

MAIN PRODUCTION CHARACTERISTICS

Total flow rate : about 15000 Kg/h ($\frac{\text{Steam } 100\%}{\text{Water } \text{---}}$)

Flowing well-head pressure : 13 bar abs

Enthalpy : about 2780 KJ/Kg

Max. Temp. recorded : 354°C at 2103 m depth

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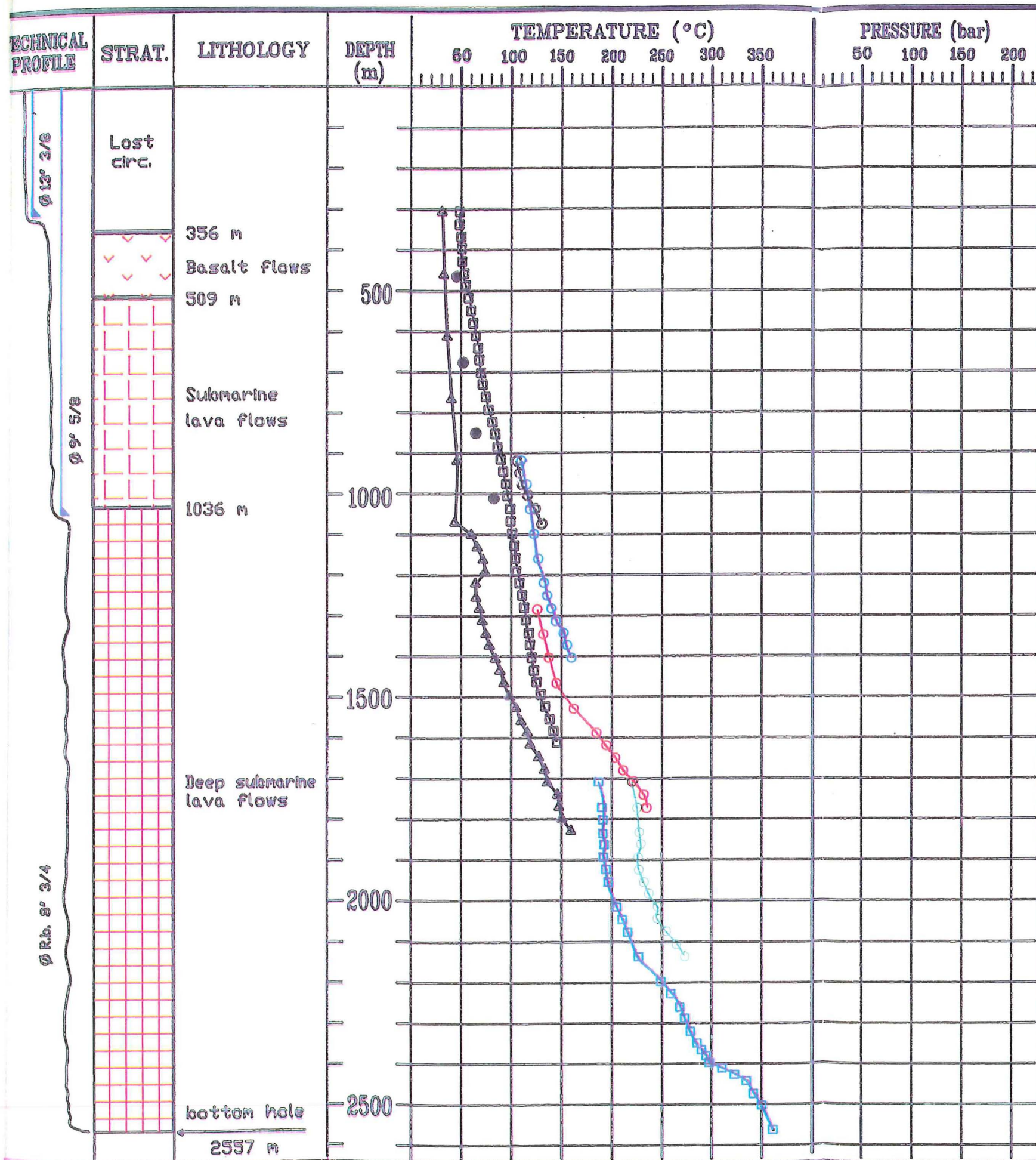
THE KILAUEA EAST RIFT ZONE :
 GEOTHERMAL EVALUATION OF THE EXISTING DATA

FIG. 6/An.B

KS-2 WELL

Latitude : 19° 28' 23" Owner : P.G.V.
 Longitude : 154° 53' 07" Date of completion : April 1982
 Elevation : 219 m

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- Bottom hole temperature
- Temp. survey at 52 h after circ. - 3/23/81
- Temp. survey at 54 h after circ. - 4/6/81
- Temp. survey at 50 h after circ. - 4/13/81
- Temp. survey at 50 h after circ. - 4/22/81
- △ Temp. survey after pump test - 4/23/81
- Temp. survey at 16 h after circ. - 5/27/81
- Temp. survey at 36 h after circ. - 5/28/81

MAIN PRODUCTION CHARACTERISTICS

Total flow rate : NOT PRODUCTIVE

Flowing well-head pressure :

Enthalpy :

Max. Temp. recorded : 363°C at 2557 m depth

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GEOTHERMAL EVALUATION OF THE EXISTING DATA

FIG. 7/An.B

LANIPUNA 1 WELL

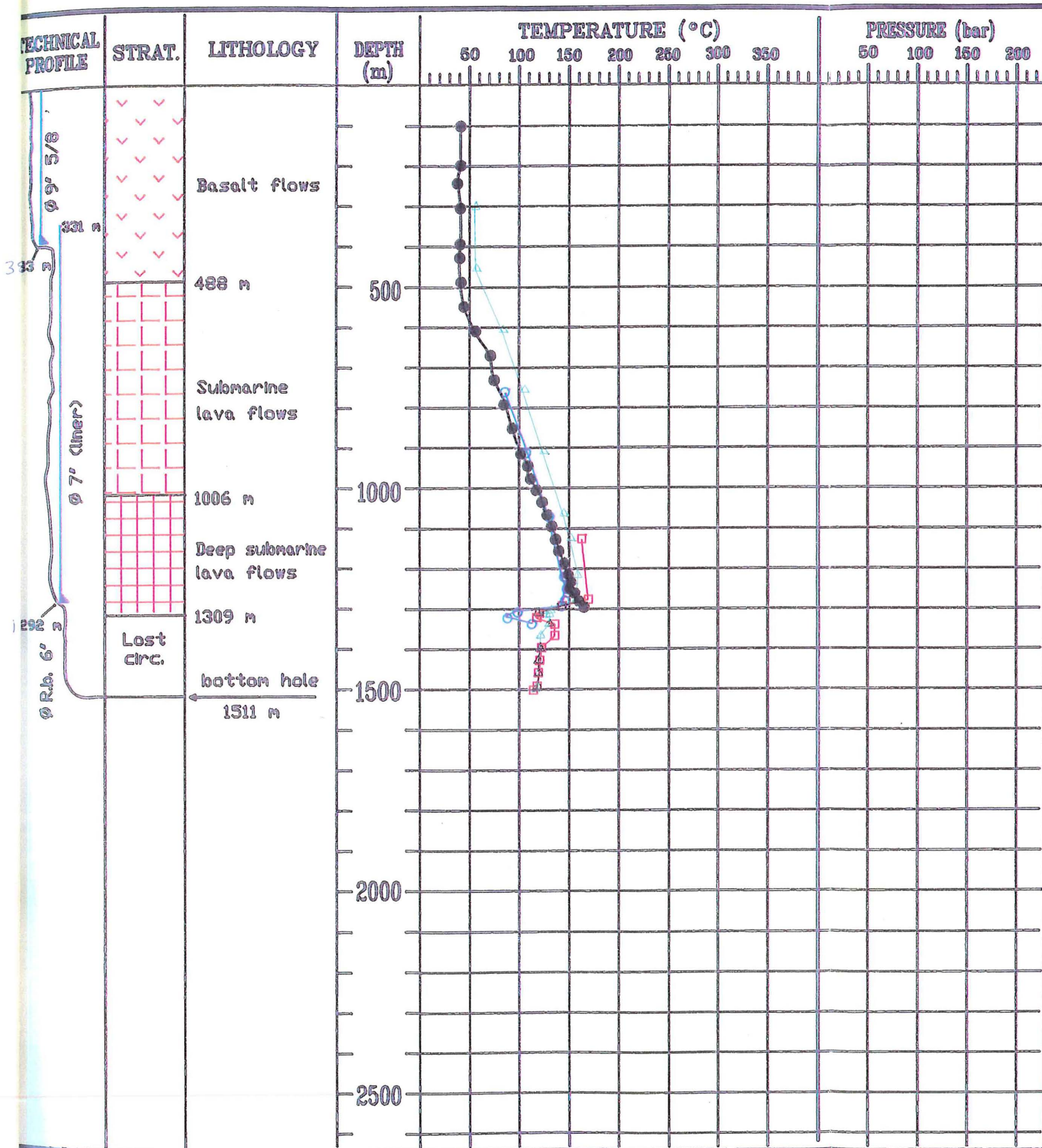
Latitude : 19° 27' 57" Owner : BARNWELL INDUSTRIES Inc.

Longitude : 154° 53' 09" Date of completion : Jun 1981

Elevation : 184 m

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ENTE NAZIONALE PER L'ENERGIA ELETTRICA - ITALY



- Temp. survey at 55 h after circ. - 3/23/84
- Temp. survey at 3 days after circ. - 4/6/84
- Temp. survey at 34 days after circ. - 7/6/84
- △ Temp. survey at 16 h after circ. - 8/7/84

MAIN PRODUCTION CHARACTERISTICS	
Total flow rate	: NOT PRODUCTIVE
Flowing well-head pressure	:
Enthalpy	:
Max. Temp. recorded	: 168°C at 1290 m depth

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THE KILAUEA EAST RIFT ZONE : GEOTHERMAL EVALUATION OF THE EXISTING DATA	FIG. 9/An.B
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LANIPUNA 6 WELL

Latitude : 19° 28' 26"	Owner : BARNWELL INDUSTRIES Inc.
Longitude : 154° 52' 50"	Date of completion : Jun. 1984
Elevation : 172 m	

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