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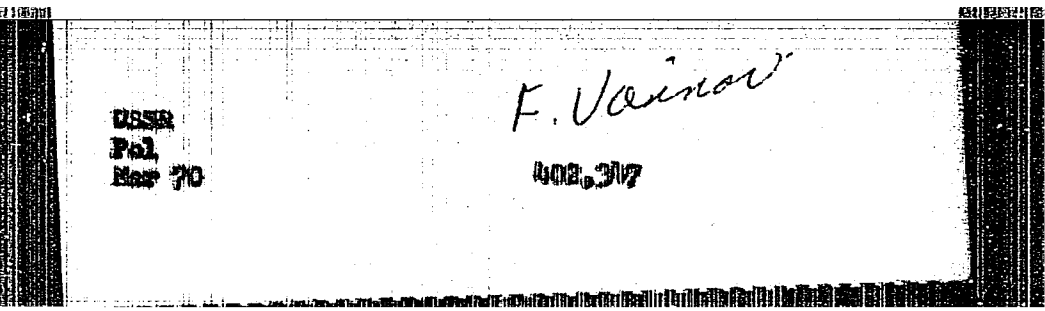
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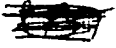
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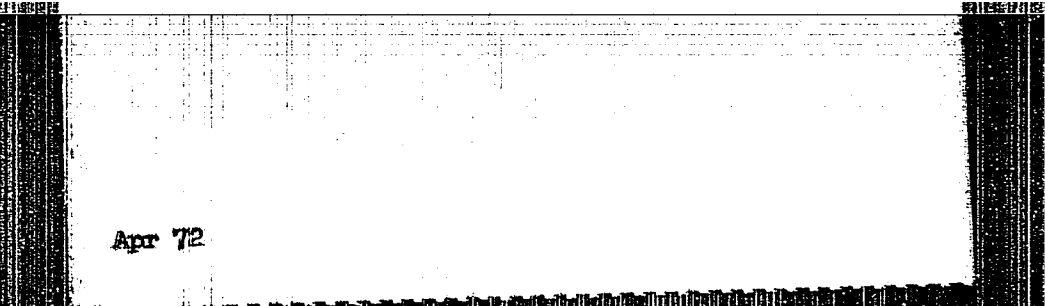
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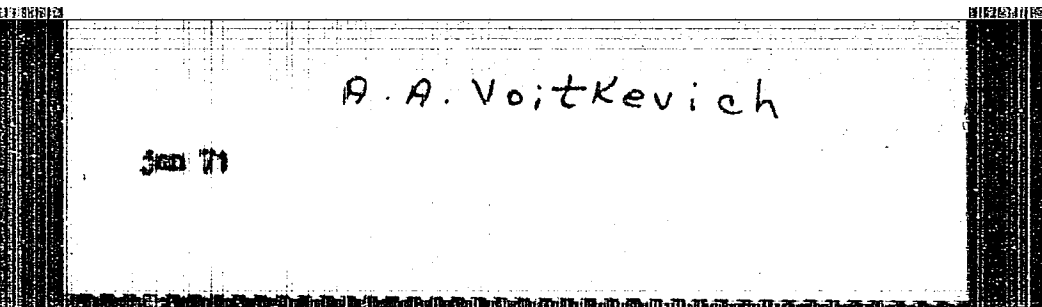
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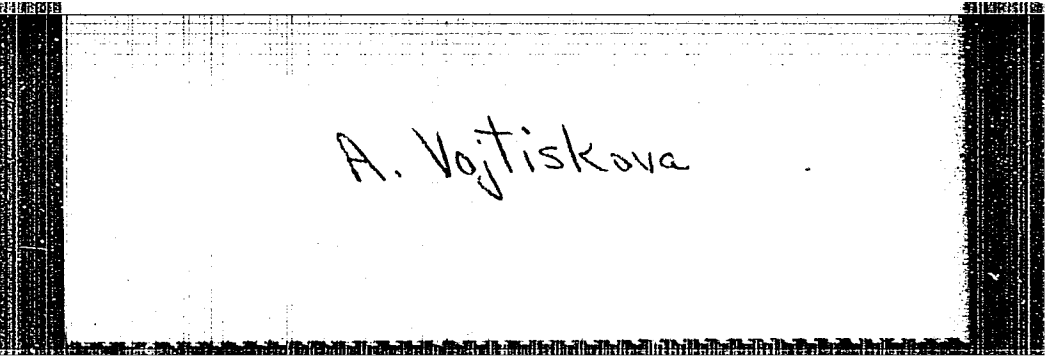
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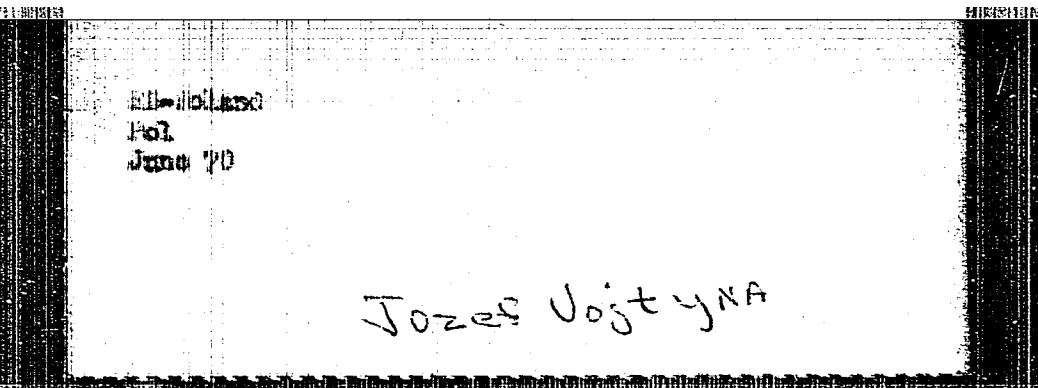
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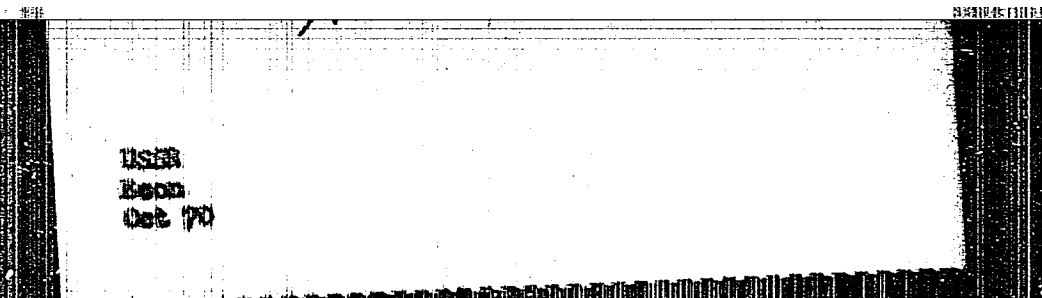
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N71-11423* # Scripta Technica, Inc., Washington, D.C.
INVESTIGATION OF THE P-WAVE VELOCITY AND
COMPRESSIVE STRENGTH OF BULGARIAN ROCK
SPECIMENS AT HYDROSTATIC PRESSURES UP TO 9000
kg/sq cm [ISSLEDOVANIYE SKOROSTEY PRODOLNYKH
VOLN I PROCHNOSTI NA SZHATIYE V OBROZTSAKH
GORNYYKH POROD BOLGARII PRI VSESTORONNIKH
DAVLENIYAKH DO 9000 kg/sq cm]
M. P. Volarovich et al NASA Oct. 1970 19 p refs Transl. into
ENGLISH from Tr. Inst. Fiz. Zemli, Akad. Nauk SSSR (Moscow),
no. 37 (204), 1966 p 118-127
(Contract NASw-2036)
(NASA-TT-F-13209) Avail: NTIS CSCL 08G

P-wave velocities and compressive strengths under monaxial
compression with simultaneous hydrostatic loading were studied
for Bulgarian rocks. As hydrostatic pressure increased to 10,000
kg/sq cm, P-wave velocities increased by 10-42%. Hydrostatic
pressure increases the compressive strengths of granite and marble
several times. Author

N71-11498*# Scripta Technica, Inc., Washington, D.C.
INVESTIGATION OF THE FREQUENCY DEPENDENCE OF
ELECTRICAL PROPERTIES OF IGNEOUS ROCKS FROM
THE KOLA PENINSULA [ISSLEDOVANIYE CHASTOTNOY
ZAVISIMOSTI ELEKTRICHESKIKH SVOYSTV
IZVERZHENNYKH GORNYKH POROD KOLSKOGO
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M. P. Volarovich et al NASA Oct. 1970 21 p refs Transl. into
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N71-11434*# Scripta Technica, Inc. Washington, D C
INVESTIGATION OF ELECTRICAL RESISTANCE OF BASIC,
ULTRABASIC AND ALKALINE ROCKS AND MINERALS AT
HIGH PRESSURES AND TEMPERATURES [ISSLEDOVANIYE
ELEKTROSOPROTVLENIYA OSNOVNYKH,
ULTRAOSNOVNYKH I SHCHELOCHNYKH GORNYKH
POROD I MINERALOV PRI VYSOKIKH DAVLENIYAKH I
TEMPERATURAKH]

M P. Volarovich et al NASA Oct. 1970 20 p refs Transl into
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no. 37 (204) 1966 p 168-179

(Contract NASw-2036)

(NASA-TT-F-13212) Avail. NTIS CSCL O8G

The two-electrode method using direct current and
electromagnetic sounding was used in the experiments. The studies
show that the change in resistance is greatest for alkaline
rocks, reaching several orders of magnitude in some specimens as
opposed to less than one order in basic and ultrabasic rocks, in the
pressure range of 1 to 25,000 kg/sq cm

Author

N71-11451*# Scripta Technica, Inc., Washington, D C
ELECTRICAL PROPERTIES OF SEDIMENTARY ROCK
UNDER HYDROSTATIC PRESSURE [ELEKTRICHESKIYE
SVOYSTVA OSADCHNYKH GORNYKH POROD V
USLOVIYAKH VSESTORONNEGO DAVLENIYA;
M P Volaiovich et al NASA Oct. 1970 11 p refs. Transl. into
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(Contract NASw-2036)
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The electrical properties of sedimentary rock specimens were studied under laboratory conditions at pressures of up to 3,000 kg/sq cm. The influence of pressure on specific resistance and dielectric permeability was found to vary with moisture content. High pressures almost totally eliminated frequency dispersion of specific resistance. Changes in the electrical properties varied from a few percent to several hundreds of percent. Author

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Sci-BSM
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The Elastic Parameters of Rocks at High Pressure and the Structure of the Kola Peninsula Granulitic Complex, by M. P. Volarovich. 23 pp.
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