

Laboratory coke oven. V. I. Zhurko and N. S. Gulyazov. Russ. 23,348, Oct 31, 1931.

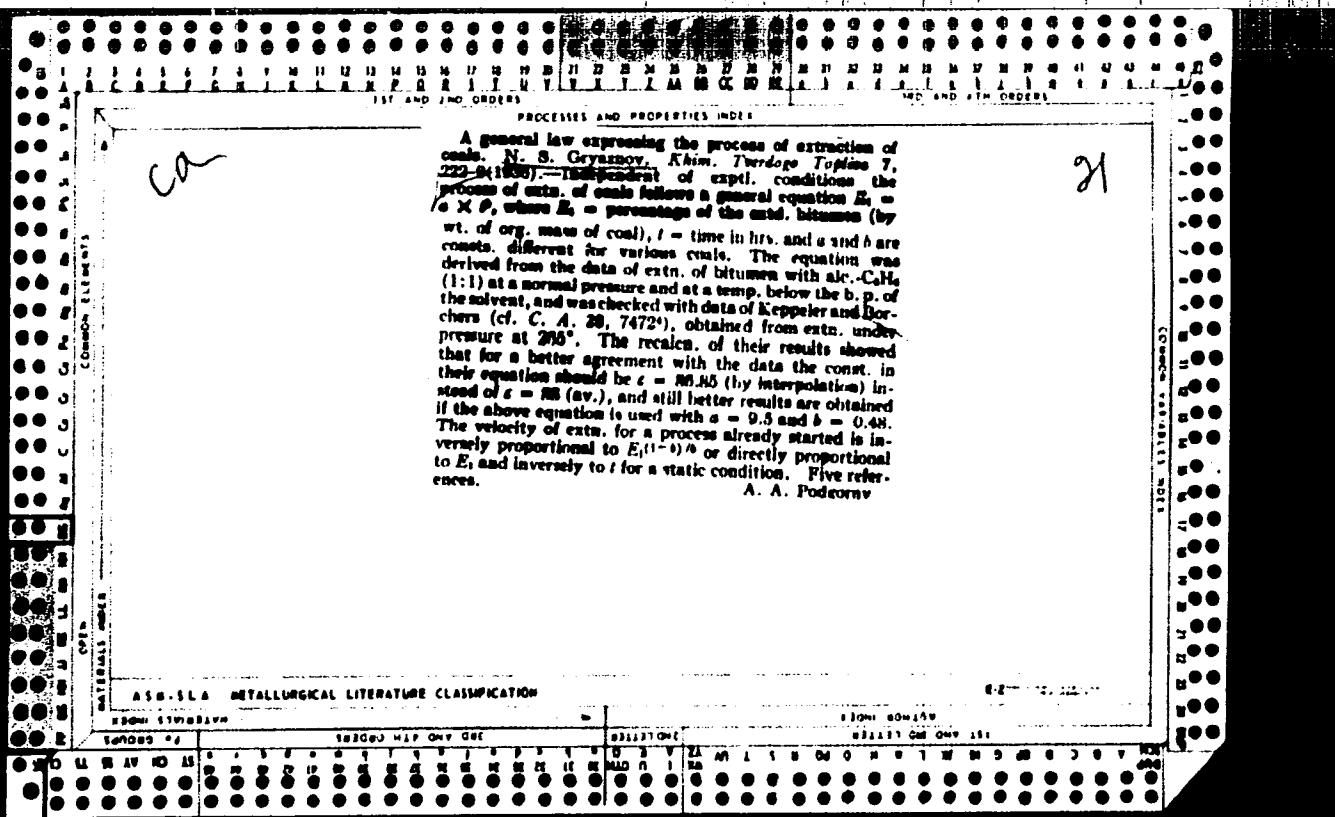
**Coking properties of Kiselevsk coals** N. S. Geyzakov.  
*Coke and Chem.* (U. S. S. R.) 1935, No. 7, 23-37. Coking index, penetrometric value, plasticity interval, softening temp., and plastiometric character are discussed. Gas evolution and the coal bitumens were studied. Coal cokes can be obtained if large amounts of low-ash and low-S noncoking coals are added. B. C. A.

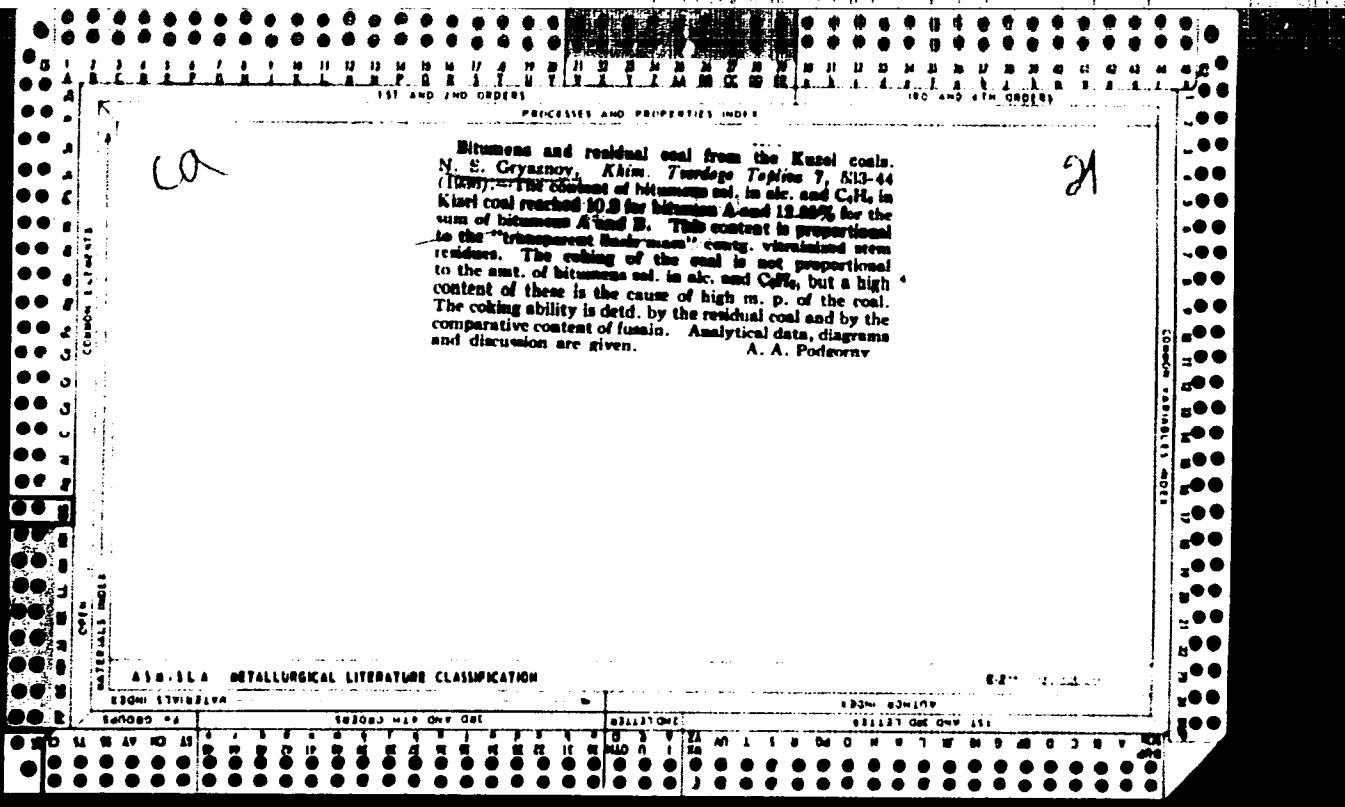
Ca

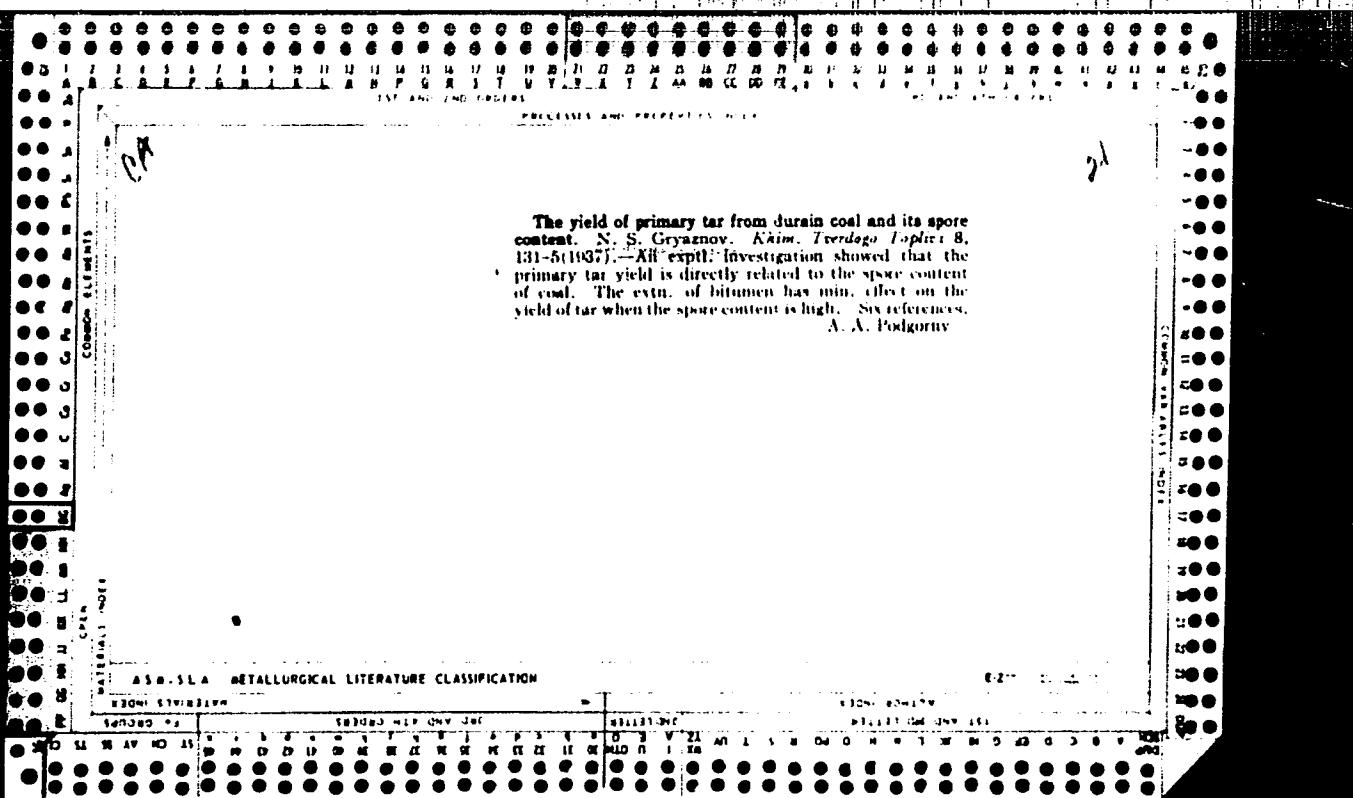
21

430-514 METALLURGICAL LITERATURE CLASSIFICATION

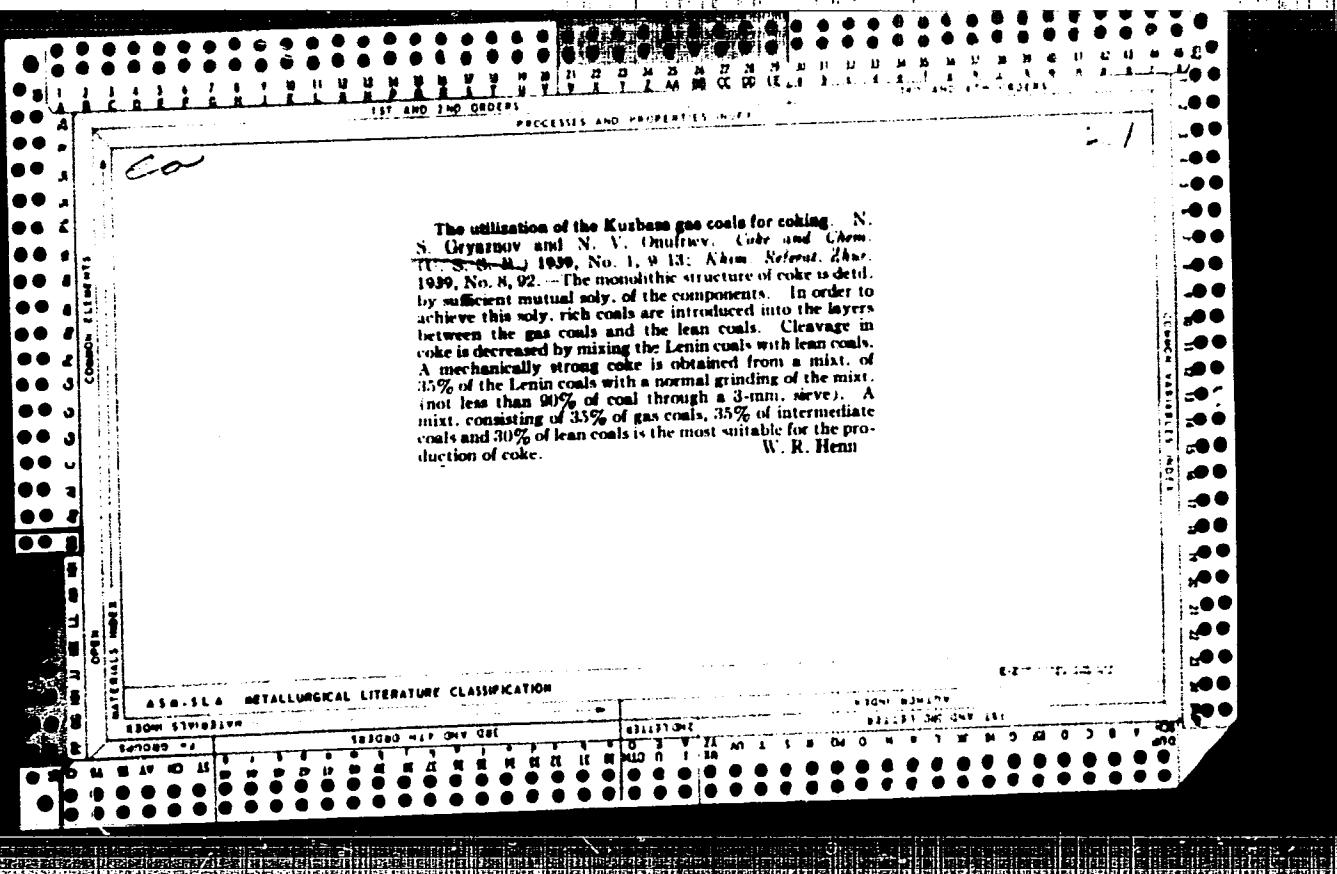
APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130007-6"

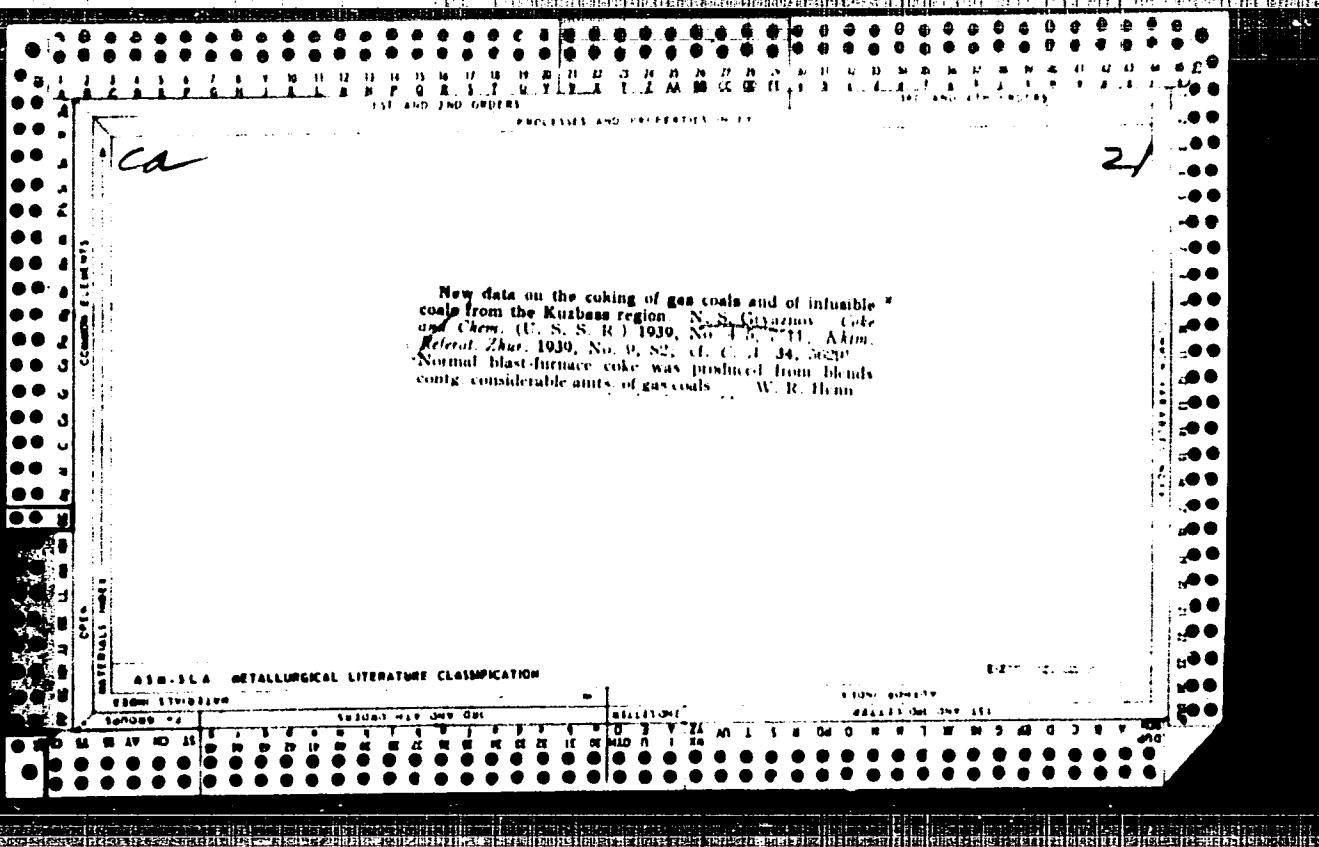


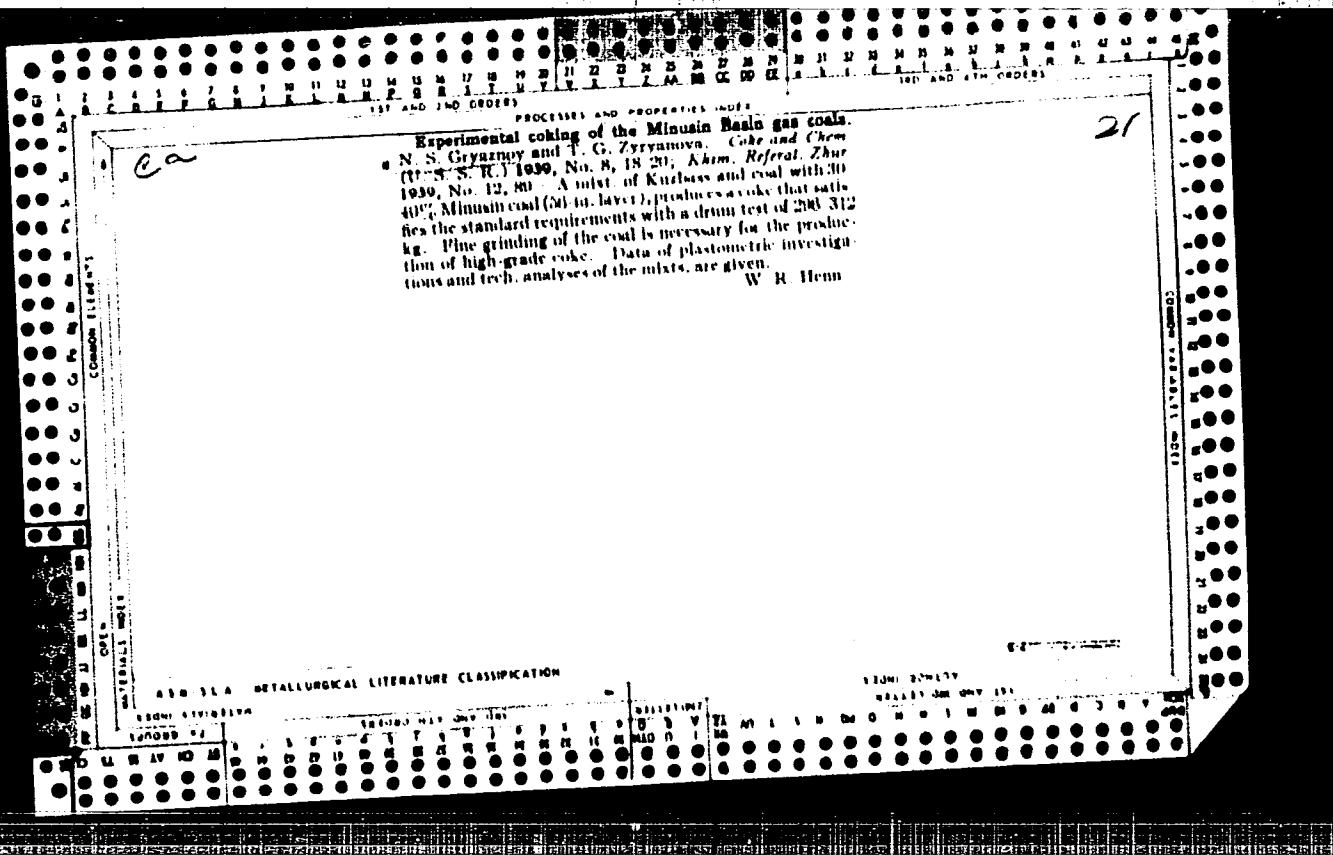




*Car* 21  
Investigation of cannel coal. N. S. Gulyanov. Akademicheskaya Promst. 8, 507-603(1987). The cannel coal of the Kizel' region contains ash up to 53% and S 8.44-8.66%. The ash contains 99.11% of silicates and pyrite. The coal has no caking ability and does not produce a plastic layer on treatment in the L. M. Sapozhnikov app., but on concen. it acquires caking ability. The coal yields semi-coke 70-73%, tar 0.55-20.15, liquor 3.05-4.45 and gas 12.05-15.00%. The tar disclosed contains gasoline plus kerosene 35%, phenol 4.81% and no free C; d is low, but a S content of 2.82% prevents its immediate utilization. The primary gas, contg. 27.5-22.0% of H<sub>2</sub>S, has a max calorific value of 3780 cal. The semicoke has no practical value since it contains ash 50 and S 7.81%. The liquor contains NH<sub>4</sub>OH 4.5 and S 4.95 g/l. A. A. P.



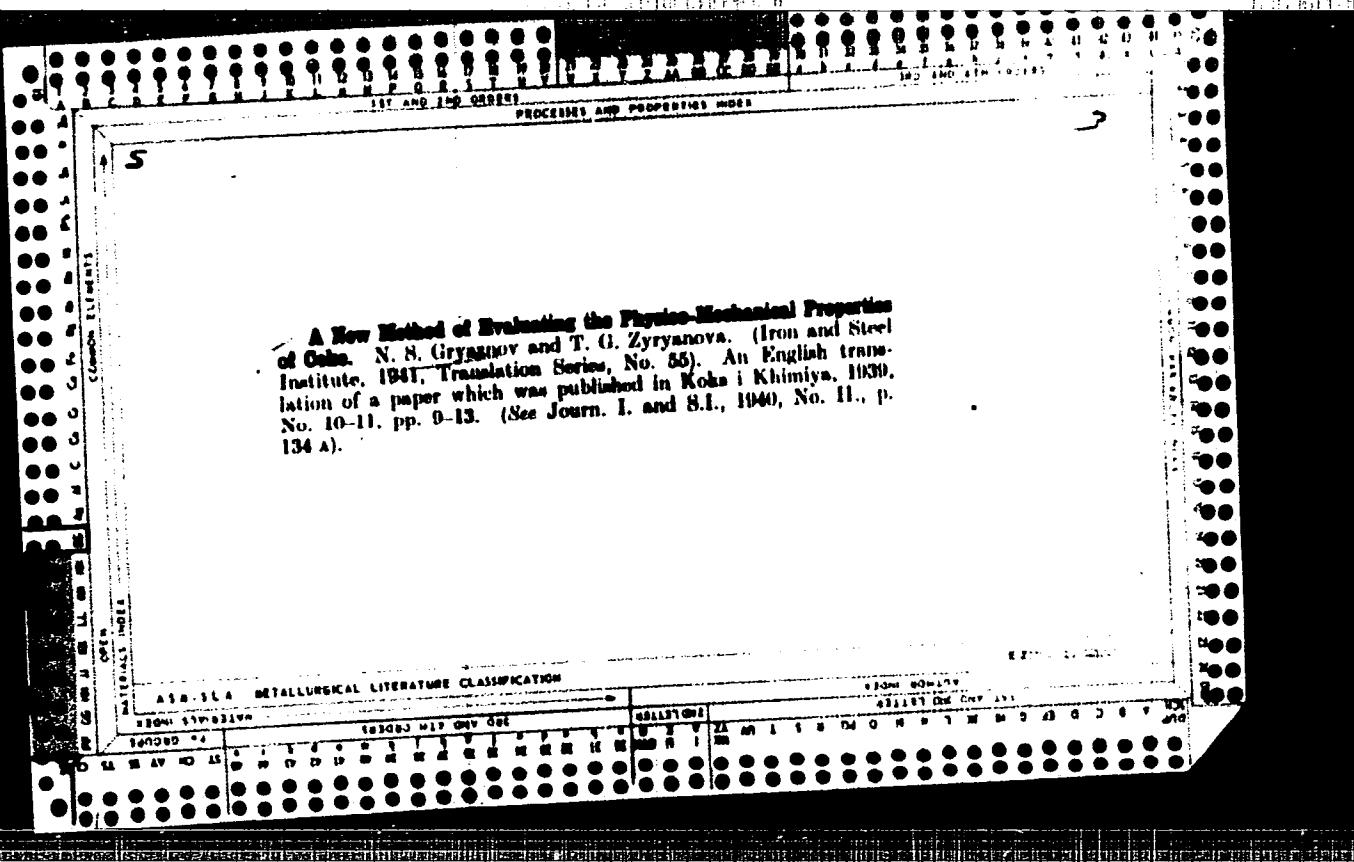




**New Method of Evaluating the Physico-Mechanical Properties of Coke.** N. S. Gulyaznov and T. G. Zyryanova. (Koks i Khimiya, 1939, No. 10-11, pp. 9-13). (In Russian). The authors discuss how the quality of coke affects the working of a blast-furnace. They are of the opinion that the following factors are of primary importance : (1) The extent to which the screen analysis of the coke is changed after subjecting it to a drum test ; (2) the degree of uniformity in the lump size after the drum test ; and (3) the degree of fissuring after subjecting the sample to a twelvefold dropping testing. The third factor was found to be independent of the degree of fissuring before testing. The authors derived coefficients characterising the first two factors by evaluating the drum test results.

## **ASIA METALLURGICAL LITERATURE CLASSIFICATION**

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130007-6"



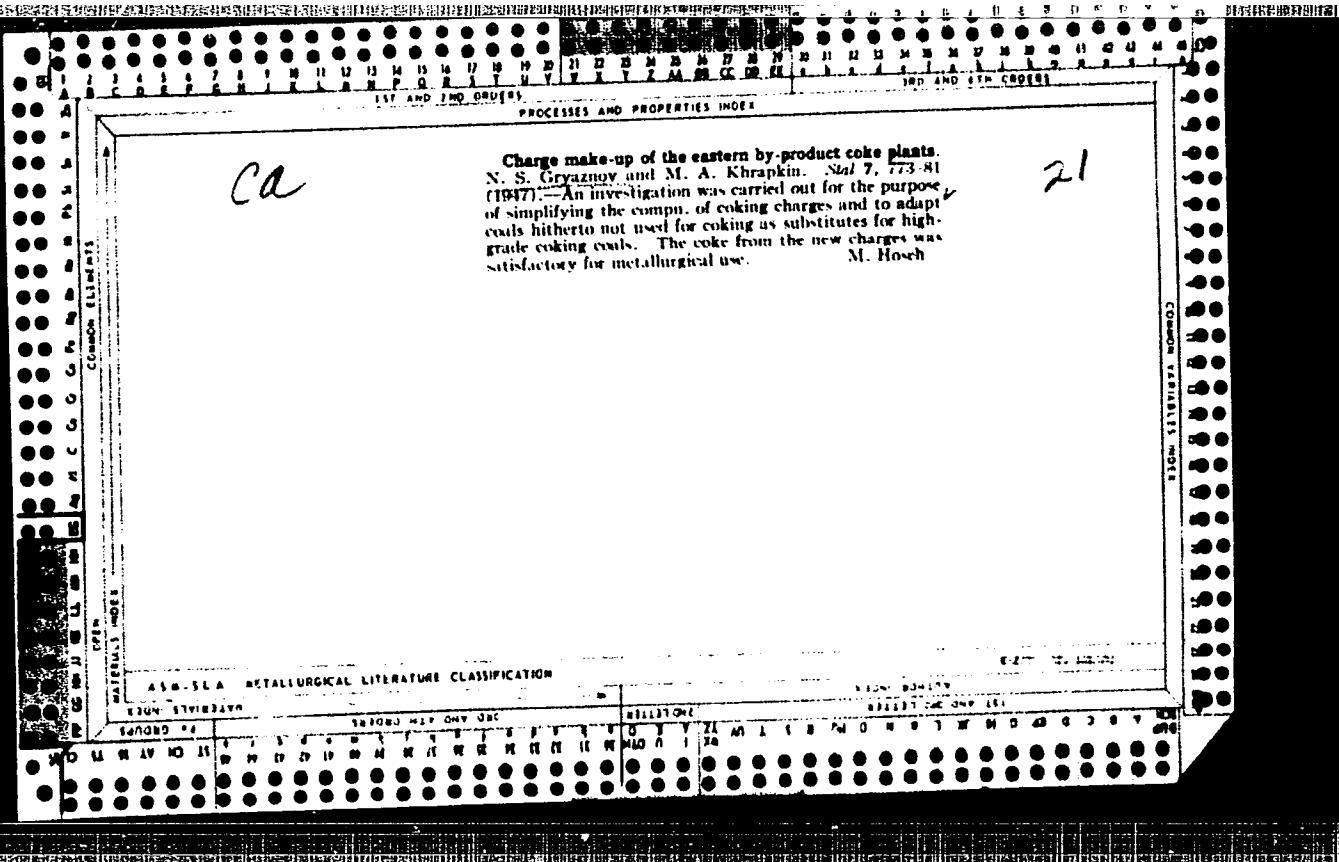
卷之三

**Rationalization of charge composition** in coking plants. N. S. Gryanov. *Sid 6*, 339-43 (1940). The Kuznetsk Basin coke production greatly expanded during the war. This necessitated the use of fat coal and gasifying coal in coking. Haphazard compon. of charges is wasteful and produces an inferior coke. Charge compon. should be carefully worked out and strictly adhered to. M. H.

21

卷之三

## **142-144. METALLURGICAL LITERATURE CLASSIFICATION**



Sep 1947

uses/Engineering  
Coke Plants  
Fuels, Solid

"Construction of Mixing Sheds at Eastern By-product  
Coke Factories," N. S. Grigor'ev, Candidate in Tech-  
nical Sciences, M. A. Khrapkin, RNER, Eastern By-  
product Coke Institute, Main Coke Administration, St. P.  
"stal'" No 9

In accordance with the agreements of the All-Union  
Technical Conference on Coke in 1946, there has been  
much work on the reconstruction of eastern by-product  
coke factories and plants. This has decreased the  
number of components in the mixing sheds, led to the  
use of several new types of coal for making coke and  
increased the use of low-grade coke coal (particularly  
bituminous, gaseous, K Zh). The result was a stand-  
ardization of mixing with a resultant standardization  
of the quality of coke. Well-illustrated with dia-  
grams.

24T33

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6

CRYAZNOV, N. S.

Fuel abstracts

Vol. XV, no. 2

Feb. 1971

Carbeniumization

112. COKING OF GAS COALS OF KUMETSK MINE (KOKEVANIE GAZOVYKH UGLEI KUZBASSA). Gryaznov, N.S. (Sverdlovsk: Metalurgizdat, 1968, 229pp.).

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6"

*GRYAZNOV N.S.*

TSIPEROVICH, Moisey Veniaminovich; GRYAZNOV, N.S.; LUCHKO, Yu.V., redaktor;  
KOVALENKO, N.I., tekhnicheskij redaktor

[Coke production batch controller; technical production training  
textbook for workers] Dozirovshchik koksovogo proizvodstva; uchebnoe  
posobie dlia proizvodstvenno-tekhnicheskogo obucheniia rabochikh.  
Sverdlovs, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1954. 167 p. (MLRA 8:4)  
(Coke industry)

G-Ryaznov, h.s.

✓ 2732. IMPROVING THE QUALITY OF METALLURGICAL COKE. Gryaznov, N.B. (Stal (Steel), Moscow), 1954, (2), 109-115; abstr. In Ref. zh. Khim. Tekn. J., Chem., Moscow, 1956, (5), 13800. After considering the experience of Soviet research workers and producers, charges are recommended in existing processes of coal preparation, carbonisation and in the method of evaluating coke. This leads to improving the division of coke according to its technological properties, eliminating inconsistencies between the end uses and the nomenclature of coals, improving preparation and the make up of charges, establishing optimum conditions for coking, arranging the supply of a single type of coal to coking works, evaluating coke by a combination of test figures, and additional classification of coke in blast furnace departments.

3762

GRYAZNOV, N.S.; LATSKAYA, M.P.; KOMAROVSKAYA, G.M.

Pore formation in coke. Koks i khim. no.1:16-24 '56. (MLRA 9:5)

1. Vsesoyuznyy uglekhimicheskiy institut.  
(Coke)

*G R Y A Z N O V N S.*

AFONIN, K.B.; BURTSEV, K.I.; BYSTROV, S.N.; VINITS, G.B.; VODNEV, G.G.; VORONIN, A.S.; GEVLICH, A.S.; GRYAZNOV, N.S.; GUDIM, A.F.; GUSYATINSKIY, M.A.; DVORIN, S.S.; DIDENKO, V.Ye.; DMITRIYEV, M.M.; DONDE, M.M.; DOROGOBID, G.M.; ZHDANOV, G.I.; ZAGORUL'KO, A.I.; ZELENETSKIY, A.G.; IVASHCHENKO, Ya.N.; KAFTAN, S.I.; KVASHA, A.S.; KIREYEV, A.D.; KLISHIEVSKIY, G.S.; KOZYREV, V.P.; KOLOBOV, V.N.; LOALOV, K.I.; LEYTER, V.A.; LERNER, B.Z.; LOBODA, N.S.; LUBINETS, I.A.; MANDRYKIN, I.I.; MUSTAFIN, F.A.; NEMIROWSKIY, N.Kh.; NEFEDOV, V.A.; OBUKHOVSKIY, Ya.M.; PERTSEV, M.A.; PETROV, I.D.; PODOROZHANSKIY, M.O.; POPOV, A.P.; RAK, A.I.; REVYAKIN, A.A.; ROZHKOV, A.P.; ROZENGAUZ, D.A.; SAZONOV, S.A.; SIGALOV, M.B.; STOMAKHIN, Ya.B.; TARASOV, S.A.; FILIPPOV, B.S.; FRIDMAN, N.K.; FRISHBERG, V.D.; KHAR'KOWSKIY, K.V.; KHOLOPTSEV, V.P.; TSAREV, M.N.; TSOGLIN, M.E.; CHERNYY, I.I.; CHERTOK, V.T.; SHELKOV, A.K.

Samuil Berisovich Bamme. Keks i khim.no.6:64 '56.  
(Bamme, Samuil Berisovich, 1910-1956)

(MLRA 9:10)

GARYAZNOV, N. S.

*Fuel* ✓ New principles in coal-crushing techniques in preparation for coking. N. S. Garyaznov, I. M. Lazovskii, and N. G. Fel'dbrin. *Koks i Khim.*, 1956, No. 8, 3-10. The question of the rational limits of crushing and the methods of grinding coal in prepn. for coking is discussed under the following heads: (1) the modification of the structural strength of the coke with the grinding of the coal charge; (2) cracking or fissuring of the coke as a function of coal size; (3) variation in screen size of the coke with fineness of grinding; (4) basic principles of coal-crushing. Summarized conclusions: (1) the finer the grinding of coal of any lithographic structure or degree of rank the lower the structural strength of the coke due (a) to the consequent deterioration in agglutinating power as indicated by rise in viscosity and decrease in thickness of the plastic layer and (b) to the lowering of its apparent sp. gr.; (2) Formation of cracks is diminished because of weakening of inner tensions due to (a) rise of thermal cond. of the charge and (b) to the diminution of the caking capacity of the coal; (3) The basic principle for the rational prepn. of coal by crushing to insure improvement of the phys.-mech. properties of the coke and the utilization of weakly caking coals is that of lowering the upper limits of grain size by min. formation of fines; (4) Especially important is the preliminary sep. of fines before charging the oven. E. I. Oli

GRYAZNOV, N.S.  
LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; GRYAZNOV, N.S.

Coking of blended coal charges prepared by the selective  
crushing method. Koks i khim. no.4:8-12 '57.

(MLRA 10:5)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal preparation) (Coal--Carbonization)

Gryaznov

68-7-5/16

AUTHOR: Gryaznov, N.S. (Cand.Tech.Sci.)

TITLE: Some Special Features of Thermal Decomposition of Coals.  
(Nekotoryye osobennosti termicheskogo razlozheniya ugley).

PERIODICAL: Koks i Khimiya, 1957, Nr 7, pp.16-24 (USSR)

ABSTRACT: The process of thermal decomposition of coal and the formation of coke was investigated using a rotary plasto-meter of the author's design. The description is given (Fig.4). The shear strength of coal on heating was measured. Coal X (0 to 1.5 mm) charged in a standard manner into the ring space (4 mm) was heated at a rate of 3°/min. The internal coal layer (1.5 mm) was moving (due to ribs on the rotor) in respect to the external stationary layer (2.5 mm) with a velocity of 1 rev/hr. In some cases coal was heated continuously up to the formation of semicoke, in others heating was stopped and the coal kept at a temperature below the temperature of its maximum fluidity, or, after heating and cooling of the plastic coal mass, it was again re-heated in an atmosphere of carbon dioxide. Curves obtained (shear strength versus temperature or time) are given in Figs. 2 - 4. The reactivity of thermally treated coals was measured by the reaction with a 5% benzene solution of sulphur monochloride (the amount of sulphur combined with the

Card 1/4

APPROVED FOR RELEASE: 08/10/2001

Some Special Features of Thermal Decomposition of Coals. 68-7-5/16 CIA-RDP86-00513R000617130007-6"

coal) and the reaction with an alcoholic iodine solution. The results obtained are given in Figs.5, 6 and 7. The dispersion ability of thermally treated coals in an alcoholic benzene mixture and in anthracene oil, as well as rates of evolution of the decomposition products (Fig.8) and changes in the inherent water content of thermally treated coals (Fig.9) were also measured. On the basis of results obtained, it is concluded that thermal decomposition of coal during coking takes place in stages: the first stage - an irreversible decomposition into structural components of the organic coal mass leading to splitting off of low molecular products ( $H_2O$ ,  $CO_2$  etc.) and the formation of unsaturated bonds which increase the reactivity of the residual substance; the second stage - an irreversible combination of activated residues and their cyclisation, leading to the formation of new compounds (with a more complicated carbon structure), which on subsequent heating undergo further splitting and packing. These phenomena, characteristic for both caking and non-caking coals, take place before the formation of rigid spatial structure of semicoke in a continuous manner and overlap with each other. Further packing of semicoke should be con-

Card  
2/4

68-7-5/16

Some Special Features of Thermal Decomposition of Coals.

increase in the caking ability of coal: a rapid heating in the range of plastic state of coal, moderate heating up to about 300 C under gas pressure, moderate heating in hydrogen atmosphere under pressure and a moderate treatment with high frequency currents. There are 10 figures and 29 references, including 26 Slavic.

ASSOCIATION: VUKhIN.

AVAILABLE: Library of Congress

Card

4/4

68-58-3-1/22

AUTHORS: Fel'dbrin, M.G., Gryaznov, N.S., and Lazovskiy, I.M.

TITLE: Utilisation of Gas and Weakly-caking Coals in Blends  
of the Eastern Works (Ispol'zovaniye gazovykh i slabospekayushchikhsya ugley v shikhtakh vostochnykh zavodov)

PERIODICAL: Koks i Khimiya, 1958, Nr 3, pp 3 - 5 (USSR).

ABSTRACT: The possibility of increasing the proportion of gas and weakly-caking coals in blends used on the Eastern Coke Oven Works and the choice of correct blends which are able to accommodate 40-60% of the above coals were investigated. Blends containing gas coals were prepared by a preferential grinding on a pilot plant, VUKhIN. The composition of experimental blends is given in Tables 1 and 3, from which it can be seen that gas coals were replacing fat and well-caking coals. The method of preferential grinding is described in some detail. Coking was done on a semi-industrial plant; the results obtained are given in Tables 2 and 4. Conclusions: preferential grinding of blends containing 40-60% of gas coals considerably improves the strength of coke (by 12-28 kg) providing that the blends possess sufficient caking ability ( $y > 15$  mm). However, despite a considerable increase in coke strength by preferential grinding, the latter cannot secure the production of coke similar in strength to Cardl/2

Utilisation of Gas and Weakly-caking Coals in Blends of the Eastern Works

68-58-3-1/22

that of current production. Further increase in the coke strength can be obtained by applying preferential grinding and stamp charging. The results obtained should be confirmed by trials under industrial conditions. There are 4 tables.

ASSOCIATION: VUKhIN

Card 2/2

SOV/24-58-6-31/35

AUTHORS: Gryaznov N.S., Lazovskiy I.M. and Fel'dbrin M.G.  
(Sverdlovsk)

TITLE: Contribution to the Theory of Coke Formation in Connection  
with the Selective Grinding of Coals (K teorii formir-  
ovaniya koksa v svyaze s izbiratel'nym izmel'cheniyem  
ugley)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh  
Nauk, 1958, Nr 6, pp 144-148 (USSR)

ABSTRACT: Laboratory and semi-production coking test results with  
selective grinding of coal have shown that at Eastern  
coke plants more gas and weakly caking coals can be used  
and coke quality with normal coals improved. The authors  
deal first with the structural (crack-free) strength of  
coke, tabulating (Table 1) results which show that it is  
reduced by selective grinding. Other results (Table 2)  
indicate that the viscosity of the coal mix on softening  
rises, the effect being obtained (Table 3) when petro-  
graphically homogeneous coals are ground. The authors  
discuss the increase in internal friction of the plastic  
mass which occurs with all coals as the coal-grain  
surfaces are opened up. The decrease in charge bulk

Card 1/3

SOV/24- 58-6-31/35

Contribution to the Theory of Coke Formation in Connection with the Selective Grinding of Coals

density produced by selective grinding leads to higher porosity and this, together with the poorer caking, accounts for the deleterious effect of such grinding on structural strength. The authors consider next the lump strength of coke, showing (Table 1) that this increases with selective grinding. They attribute this to the greater petrographic and size uniformity and consequent reduction of internal stresses. Finally the authors summarize the effects of selective grinding for various types of charge: coke stability is improved when a low-stability coke is otherwise obtained from strongly caking coals; with charges containing a high proportion of gas coals a strong coke is not obtained; a relatively small improvement in coke strength is obtained with charges which normally give a medium-shatter, structurally strong

Card 2/3

SOV/24-58-6-31/35  
Contribution to the Theory of Coke Formation in Connection with  
the Selective Grinding of Coals

coke; strong coke is not obtained with low-caking charges normally giving a highly abrading coke. For preventing reduction of structural strength due to Selective grinding the authors recommend tamping of the charge and quote some test results.

There are 5 tables and 6 references (5 Soviet, 1 French)

SUBMITTED: July 16, 1957

Card 3/3

68-58-7-6/27

AUTHOR: Gryaznov, N. S., Candidate of Technical Science

TITLE: A Method of Analysis and Forecasting of the Structural Strength of Coke (Metod analiza i prognoza strukturnoy prochnosti koksa)

PERIODICAL: Koks i Khimiya, 1958, Nr 7, pp 16-22 (USSR)

ABSTRACT: By structural strength of coke, the strength of coke lumps free from fissures is understood. The author described the VUKhIN method of determining the structural strength of cokes, which is equally suitable for laboratory and industrial cokes. A laboratory cylindrical retort for the test carbonisation (500-600 g) is described (Fig.1). The method consists of placing a 50 cm<sup>3</sup> samples of coke 6-3 mm in size (this fraction should correspond to at least 50% of the total sample) into a cylinder of 25 mm internal diameter and 300 mm long together with 3 steel balls 15 mm in diameter and rotating the cylinder for 1000 revolutions of 25 r.p.m. (Fig.2). The structural strength can be determined in absolute units of specific work of crushing coke, but as the increase in surface during crushing is mainly determined by the increase of the yield of dust by

Card 1/4

68-58-7-6/27

A Method of Analysis and Forecasting of the Structural Strength  
of Coke

weight (1-0 mm fraction) and, therefore, the index of strength can be expressed by the fraction retained on a 1 mm screen. The reproducibility of parallel determinations should not be lower than 1% and between two samples obtained in two parallel coking experiments - 2%. The bulk density of coke as used for the test can often be used as its additional characteristic. Using the above method the structural strength of coke made from blends used in the Eastern regions, of pitch coke as well as the influence of method of preparation of blends for coking on the structural strength of cokes produced were investigated. The experimental results are given in Tables 1 - 8 and Figs. 2-3. The experimental results indicated that changes in the index of structural strength follow changes in the impact strength and resistance to wear. With increasing coking temperature the structural strength of coke increases following its tensile strength.

Card 2/4 For the coals investigated the index of structural strength followed the strength of coke as determined by the drum test. The property of the index can be used for choice of coal blends on the basis of laboratory

68-58-7-6/27  
A method of Analysis and Forecasting of the Structural Strength  
of Coke

experiments. To obtain a strong metallurgical coke the following indices should be obtained: 1) the index of structural strength of laboratory coke should be above 75% and 2) on transfer from semi-coke to coke, the shrinkage (the evolution of the residual volatiles) should not exceed 10%. The influence of the degree of fineness of the blend on the structural strength was also tested and it was found that with increasing fineness of the blend, the structural strength of coke decreases. The opposite effect is obtained by stamping. It is pointed out that the structural strength of coke is a function of three components: 1) caking ability, i.e. the strength of adhesion of coal grains to each other; 2) wall thickness of pores (i.e. porosity) and 3) the hardness of the wall material. It is concluded that using the above index it is possible to find causes or forecast the nature of changes of the strength of metallurgical coke with changes in the composition or preparation of coal blends.

Card 3/4

68-58-7-6/27

A method of Analysis and Forecasting of the Structural Strength  
of Coke

There are 8 tables, 4 figures and 14 references, 13 of  
which are Soviet, 1 English.

ASSOCIATION: VUKhIN

1. Coke--Mechanical properties
2. Coke--Structural analysis
3. Coke--Test methods

Card 4/4

ZASHKVARA, V.G., kand. tekhn. nauk; GRYAZNOV, N.S., kand. tekhn.nauk;  
SHCHUKIN, P.A., kand. tekhn. nauk.

First meeting of workers of the fuel industry of Czechoslovakia.  
Koks i khim. no.12:50-52 '58. (MIRA 11:12)

1.Ukrainskiy Uglekhimicheskiy institut (for Zashkvara). 2.Vostochnyy  
Uglekhimicheskiy institut (for Gryaznov) 3.Institut goryuchikh  
iskopayemykh AN SSSR (for Shchukin)  
(Czechoslovakia--Fuel)

G.RYAZNOV, N.S.

К ТЕОРИИ СПЛЕКАНИЯ УГЛЕЙ

Н. С. Грачев

VIII Mendeleev Congress for General and Applied Chemistry in  
Section of Chemistry and Chemical Technology of Fuels,  
Publ. by Acad. Sci. USSR, Moscow 1959

Abstracts of reports scheduled to be presented at above mentioned congress,  
Moscow, 15 March 1959.

C. RYAZANOV, A. S.

PAGE I BOOK EXPIRATION 509/2127

Kazanochistacheskoye Prolizvodstvo oboroni stroy (By-Product Oiling Industry)  
Collection of Articles) Moscow, Metallurgizdat, 1959. 260 p. 2,500  
copies printed.

No. 1, 2. S. Philippov Ed. of Publishing House: A. A. Borzhikov Tech. Ed.  
P. G. Isayev-perv

**SUMMARY:** The book is intended for engineers and technicians in the by-product oiling industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.

**CONTENTS:** The articles in this collection on the by-product oiling industry appeared originally either in the periodical issue 1 Khakasy (Coke and Charcoal) or in other publications during 1955-1958. The book discusses the development of raw-material reserves for oiling, technology of the manufacture of coke, quality of coke and further enlargement of the number of chemical coke products obtained. Some articles are devoted to a new procedure for preparing and beneficiating coke, new methods for coking, and to the mechanization and automation of industrial processes. References accompany individual articles.

**Summary:** Ed. by N. Lazarev, and M. G. Pal'shchik [USSR]. The

Reporters: J. Ya. [Candidate of Technical Sciences, USSR], Beneficiation of Coking Coke in Heavy Metals

Kharchenko, T. P. [MOSCOW-BORZACHENKO], and A. Z. Turonov [TOM AW serial], Centrifugal Beneficiation of Coking Coke

Makarova, V. N. [Borzhikov firm], Consistency of the Quality Indices of Western-Russian Coke

Prishchepin, I. A., and N. K. Makarov [Oiprokhim]. Progress in Coke-  
Oven Construction

Philippov, S. N. [Committee of Technical Sciences, Gor'kiy SOA], Improve-  
ment in the Operation and Lengthening of the Life of Coke Ovens

Platonov, I. Ya., A. I. Tolokonik, and S. A. Bratnik. [Candidates of  
Technical Sciences, USSR], Improvement of the Heating and Technological

Process... L. N. L. I. I. Ishchenko, and N. A. Borzhikov [USSR]. Coking  
of the Eastern Coke with the Use of Stamping

Lazarev, N. N. [Borzhikov firm], Partial Mechanization and Automation in  
Oilizing Plants

Fishchenko, A. A. [Metallurgizdat], and G. A. Barsovov [Dorpat Scientific  
Research Institute], Ferro-Coke and Its Use in the Blast Furnace

Kharchenko, V. T. [Institutgorstroy metalliferoustochnost' koksizm - Instrogor-  
stroy metallurgical combine], Methods of Increasing the 60-80 mm Fraction of

Metallurgical Coke

Kharchenko, M. D., and I. M. Masalovich [USSR]. Prospects of the  
Development of Processing Chemicals Obtained in the By-Product Oiling  
Industry in the USSR. During 1959-1965

Borzhikov, I. M. [USSR]. Progress in Developing a Larger Number of  
Primary Products in the Processing of Coal for

AVAILABILITY: Library of Congress

SO/24  
10-30-50

cont'd  
1/1

SOV/68-58-2-5, '20

AUTHORS: Gryaznov, N.S., Fel'dbrin, M.G. and Kuzovkov, S.S.

TITLE: Coking of Preliminary Pre-heated Coal Blend (Koksovaniye predvaritel'no nagretoy ugol'noy shikhty)

PERIODICAL: Koks i Khimiya, 1959, Nr 2, pp 17 - 20 (USSR)

ABSTRACT: The influence of a preliminary pre-heating of the coal charge on the characteristic features of the coking process and the quality of coke produced was investigated. A blend from Kuznets coals, used on the Chelyabinsk Metallurgical Works, in which a part of the fat coal replaced by gas coal of the following composition was used for the investigation, %: KZh - 41, Zhl - 17, Gl - 11, K2 - 31. The blend was crushed in the usual manner to 93% of - 3 mm fraction. Pre-heating was done in a rotating drum placed in a ring furnace. The coking was done in an electrically heated oven, 400 mm wide of a capacity of 180 kg. The temperature of the surface of oven walls at the end of coking was 1 080 °C and at the tar line plane 950 °C. The hot blend was charged directly from the pre-heating drum. Changes in the bulk density and rate of flow (from a special bunker with an outlet 40 mm in diameter) of pre-heated blend were determined (Table 1) - both attained maximum value at a pre-heating temperature

Card1/3

SOV/68-58-2-5/20

Coking of Preliminary Pre-heated Coal Blend

of 200 °C. Pre-heating of the blend to a temperature above 200 °C is unprofitable as the bulk density and the rate of flow decrease due to the beginning of thermal decomposition. Changes in the volatile content, thickness of the plastic layer and apparent viscosity with pre-heating temperature are given in Table 2 and Figure 1. A decrease in the fluidity of the plastic mass begins after pre-heating to 204 °C. The temperature gradient during coking was measured with 4 thermocouples placed in one half of the oven. With increasing pre-heating temperature the mean coking velocity increases but the individual layers of the charge carbonise at a rate sharply different from the mean rate. Changes in the heating rate of ordinary and pre-heated charges during the plasticity period at various distances from the wall are given in Table 3 and changes in the thickness of the plastic layer during its movement towards the tar line plane in Figure 2. The quality of the coke produced from ordinary blend and pre-heated to various temperatures is compared in Table 4. On pre-heating of charge up to 200 °C, the quality of the coke improves, but with pre-heating to a  
Card2/3

Coking of Preliminary Pre-heated Coal Blend

SOV/68-58-2-5/20

higher temperature the quality of the coke deteriorates. It is concluded that pre-heating of the coal charge improves the quality of metallurgical coke and increases the throughput of the coke ovens by approximately 35%. Pre-heating of the coal charge within a range up to 200 °C is advantageous. There are 2 figures, 4 tables and 7 Soviet references.

ASSOCIATION: VUKhIN

Card 3/3

SOV/68-59-6-2/25

AUTHORS: Lazovskiy, I.M., Gryaznov, N.S., Fel'dbrin, M.G.  
(VUKHIN); Pakhalok, I.F., Poputnikov, F.A., Yurenkov, N.I.  
and Lyamin, I.N. (VNIIUglebogashcheniye)

TITLE: Preparation of Coal Blend by Air Ellutriation with  
Crushing of Large and Heavy Particles (Podgotovka  
ugol'nykh shikht vozдушnoy separatsiyey s drobleniyem  
krupnykh i tyazhelykh chastits)

PERIODICAL: Koks i Khimiya, 1959, Nr 6, pp 5-8 (USSR)

ABSTRACT: The use of air ellutriation in the preparation of coal blends by preferential crushing is proposed. The method consists in that a coal or a coal blend of a size 25-0 mm is air ellutriated in a pipe, so that 3.0 mm size fraction is removed by the air stream and the 25-3 mm fraction is crushed and again air ellutriated. A pilot plant installation erected for this purpose (fig) and some experimental results obtained are described. Coal blends used on one of the Eastern coking works were used for experiments. Size distributions of coal blends and quality of coke obtained by the usual crushing and preferential crushing with and without air ellutriation are shown in Tables 1 and 2. It was found that the use of air ellutriation decreases the proportion of dust

Card 1/2

SOV/68-59-6-2/25

Preparation of Coal Blend by Air Ellutriation with Crushing of  
Large and Heavy Particles

(0.42 ~ 0 mm) by 5.8% and the distribution of ash between the individual size fraction is more uniform (ash content of larger particles is somewhat lower than that of fine fractions) and the coke obtained (on a pilot plant) was stronger than from blends prepared by preferential crushing without air ellutriation. The design and construction of a large scale experimental plant for preferential crushing with air ellutriation in a closed cycle is recommended.

Card 2/2 There are 1 figure, 2 tables and 5 Soviet references.

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.

Increasing the use of gas coal in coking oven charges in eastern  
plants. Ugol' 34 no.4:60-62 Ap '59. (MIRA 12:7)

1. Vostochnyy uglekhimicheskiy institut.  
(Ural Mountain region--Coke ovens)

GRYAZNOV, N.S., kand.tekhn.nauk; PETROV, V.K.

Coking of coals under gas pressure. Koks i khim. no.1:30-35 '60.  
(MIRA 13:6)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal--Carbonization)

GRYAZNOV, N.S.

Coal pressure arising during coking. Koks i khim. no.6:16-20 '60.  
(MIRA 13:7)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal--Carbonization)

BOLITER, Ye.P.; GRYAZNOV, N.S.; SHAHSMURIN, P.I.

X-ray examination of coal clinkering. Dokl. AN SSSR 134 no.6:1403-  
1405 O '60.  
(MIRA 13:10)

1. Vostochnyy nauchno-issledovatel'skiy uglekhimicheskiy institut,  
g.Sverdlovsk. Predstavлено akademikom V.A.Karginym.  
(Coal, Pulverized)

GRYAZNOV, N.S., kand.tekhn.nauk

Viscosity, gas permeability, and swelling of a plastic mass of  
coals. Koks i khim. no.8:7-10 '60. (MIRA 13:8)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal—Carbonization)

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000617130007-6"

AUTHORS:

Boliter, Ye. P., Gryaznov, N. S., and Shashmurin, P. I.  
Radiography of Coal Caking

TITLE:

Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 6,  
pp. 1403-1405

PERIODICAL:

S/020/60/134/006/028/031  
B004/B054

TEXT: The authors wanted to solve the problem as to whether merely an interaction of the surface of coal grains or a dispersion takes place in caking. They investigated the caking of Kuznetsk Г6 (G6) gas coals from the mine imeni Kirov and the Polysayevskaya mine, types КМ14 (KZh14), 1М26 (1Zh26), and К2 (K2). Surfaces of coal samples were ground and marked with Ca<sup>45</sup> (radiant energy 0.354 Mev, half-life 152 d). Ca<sup>45</sup>Cl<sub>2</sub> or Ca<sup>45</sup>(NO<sub>3</sub>)<sub>2</sub> was applied to the ground sections, and the calcium was fixed as a sulfate or carbonate by means of K<sub>2</sub>SO<sub>4</sub> or Na<sub>2</sub>CO<sub>3</sub>. The samples were coked at a pressure of 1 kg/cm<sup>2</sup>, and their plastic deformation was determined (Table 1). Then, the coke samples were cut into small pieces, ground, and radiographed (exposure of the photographic plate 7-15 d). Card 1/2

CRYAZNOV, N.S.; LAZOVSKIY, I.M.; FFL'DBRIN, M.G.; KORENSKIY, V.I.

Preparing coal for coking by the method of pneumatic and mechanical  
separation. Koks i khim. no.8:4-6 '61. (MIRA 15:1)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal) (Coke)

GRYAZNOV, Nikolay Sergeyevich; ARONOV, S.G., doktor tekhn. nauk,  
retsenzent; PANCHENKO, S.I., doktor tekhn. nauk, red.;  
KHYZHOOVA, M.L., red. izd-va; MAL'KOVA, N.T., tekhn. red.

[Plasticity and the caking of coals] Plasticheskoe sosto-  
ianie i spekanie uglei. Sverdlovsk, Metallurgizdat, 1962.  
191 p. (MIRA 15:9)

(Coal—Testing) (Coke)

GRYAZNOV, N.S., kand.tekhn.nauk; prinimala uchastiye KOMAROVSKAYA, G.M.

Characteristics of the changes in the plasticity of coal caused  
by increasing coking speed. Koks i khim. no.1:6-12 '62. (MIRA 15:2)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal—Analysis) (Coke industry)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; KAUFMAN, A.A.;  
KOMAROVSKAYA, G.M.; LATSKAYA, M.P.; IVANOVA, L.V.

Peculiarities of the process of coking coal with oil additions.  
Koks i khim. no. 16:17-22 '61. (MIRA 15:2)

1. Vostochnyy uglekhimicheskiy institut.  
(Coke industry)

TSIPEROVICH, Moisey Veniaminovich, otv. red.; GRYAZHOV, I.S.,  
red.; KOLEGOV, A.P., red.; PANCHENKO, S.I., red.;  
FEL'DERIN, M.G., red.; CHAPAYKINA, F.K., red.izd-va;  
KOROL', V.P., tekhn. red.

[Coal preparation and coking] Podgotovka i koksovanie uglei;  
sbornik statei. Sverdlovsk, Metallurgizdat. No.3. 1962.  
(MIRA 16:12)  
415 p.  
1. Sverdlovsk. Vostochnyy nauchno-issledovatel'skiy ugle-  
khimicheskiy institut. (Coal preparation) (Coke)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.; IVANOVA, L.V.;  
KOMAROVSKAYA, G.M.

Standardization of methods of coal preparation for coking.  
Koks i khim. no.4:3-9 '62. (MIRA 16:8)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal preparation)

GRYAZNOV, N.S.; LAZOVSKIY, I.M.; FEL'DBRIN, M.G.

Coal preparation for coking by means of preliminary heating  
and efficient crushing. Koks i khim. no.11:10-12 '62.  
(MIRA 15:12)

1. Vostochnyy uglekhimicheskiy institut.  
(Coal preparation)

KANAVETS, P.I.; MELENT'YEV, P.N.; YENIK, G.I.; IVLEVA, A.S.;  
LAZOVSKIY, I.M.; GRYAZNOV, N.S.; MOCHALOVA, G.V.; KORENSKIY, V.I.

Preliminary granulating of coal charges with rolling in mazut.  
(MIRA 16:9)  
Koks i khim. no.8:10-14 '63.

1. Institut goryuchikh iskopayemykh AN SSSR (for Kanavets,  
Meleent'yev, Yenik, Ivleva). 2. Vostochnyy uglekhimicheskiy  
institut (for Lazovskiy, Gryaznov, Mochalova, Korenskiy).  
(Coal preparation)

KUPERMAN, P.I.; GRYAZNOV, N.S.; MOCHALOV, V.V.; FROLOV, V.V.; MUSTAFIN, F.A.; PUSHKASH, I.I.; SLAVGORODSKIY, M.V.; LAZAREV, B.L.; BORISOV, V.I.; Prinimali uchastiye: CHERKASOV, N.Kh.; ZABRODSKIY, M.P.; RYTCHENKO, A.I.; RUTKOVSKAYA, Ye.N.; SAITBURGANOVA, N.I.; SHTAGER, A.A.; SHISHLOVA, T.I.; BUDOL', Z.P.; MEN'SHIKOVA, R.I.; GORELOV, L.A.; AGARKOVA, M.M.; KOUROV, V.Ya.; KOGAN, L.A.; BEZDVERNYY, G.N.; POKROVSKIY, B.I.

Effect of the lengthening of the coking time on the coke quality and testing of coke in the blast furnace process. Koks i khim. no.9: 23-28 '63. (MIRA 16:9)

1. Vostochnyy uglekhimicheskiy institut (for Kuperman, Gryaznov, Mochalov, Kogan, Bezvernyy, Pokrovskiy).
2. Ural'skiy institut chernykh metallov (for Frolov).
3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin, Pushkash, Slavgorodskiy, Lazarev, Cherkasov, Zabrodskiy, Rytchenko, Rutkovskaya, Saitburganova, Shtager, Shishlova, Budol', Men'shikova).
4. Koksokhimstantsiya (for Borisov, Gorelov, Agarkova, Kourov).  
(Coke—Testing)

MIROSHNICHENKO, A.M., kand. tekhn. nauk; PANCHENKO, S.I., doktor tekhn. nauk; SHTROMBERG, B.I., kand. tekhn. nauk; FRISHERG, V.D., kand. tekhn. nauk; BAYDALINOV, P.A., inzh.; GRYAZNOV, N.S., doktor tekhn. nauk; ZASHKVARA, V.G., doktor tekhn. nauk; LAZOVSKIY, I.M., kand. tekhn. nauk; MARINICHEV, B.T., inzh.; FEL'DBRIN, M.G., kand. tekhn. nauk; BAKUN, N.A., inzh.; BARATS, B.M., inzh.; VOZNYY, G.F., kand. tekhn. nauk; MIKHAL'CHUK, A.M., inzh.; TOPORKOV, V.Ya., kand. tekhn. nauk; FLORINSKIY, M.V., inzh.; KHAYET, A.N., inzh.; SHELKOV, A.K., inzh., red.; ARONOV, S.G., doktor tekhn.nauk, red.; PREOBRAZHENSKIY, P.I., inzh., red.

[Manual for coke chemists in six volumes] Spravochnik koksokhimika v shesti tomakh. Moskva, Izd-vo "Metallurgiia." Vol.1.  
[Source of raw materials and preparation of coal for coking]  
Syr'evaia baza i podgotovka uglei k koksovaniyu. 1964. 490 p.  
(MIRA 17:5)

GRYAZNOV, P., inzhener-podpolkovnik.

Motor with free moving pistons. Voen.-inzh. zhur. 101 no.5:27-25  
My '57. (MIRA 10:6)  
(Engines)

GRYAZNOV, P., inzhener-podpolkovnik

New cutter. Starsh.-serzh. no.8:22 Ag '61. (MIRA 14:10)  
(Motorboats)

GRYAZNOV, S.G.

Gas and oil well cementing in permafrost. Gaz. prom. 10  
no. 7; 6-9 '65. (MIRA 18:8)

(-KVALEN) V.A.  
DATSKEVICH, M.F.; POTEKHIN, S.S.; ZIMIN, F.F.; POPOV, I.Ye.; RUSIN, P.N.;  
ANOKHIN, S.D.; NESTEROV, V.P.; FROLOV, V.A.; GRYAZNOV, V.A., red.;  
USTIYANTS, V.A.; KAPRALOVA, A.A., tekhn.red.

[Modernizing punched card calculating machines] Opyt modernizatsii  
schetno-perforatsionnykh mashin. Moskva, Gos. stat. izd-vo, 1957.  
75 p. (MIRA 11:4)

1. Russia (1923- U.S.S.R.) Upravleniye "Soyuzmashchet."  
(Punched card systems)  
(Calculating machines)

GRYAZNOV, V.A.; SHLYAKHTUN, P.Ya.

Device for rail laying. Put' i put.khoz. 4 no.3:37-38  
Mr '60. (MIRA 13:5)

1. Nachal'nik proyektno-izyskatel'skoy gruppy sluzhby puti,  
g.Kaluga (for Gryaznov). 2. Inzhener PDMS-4 Kalininskoy dorogi  
(for Shlyakhtin).

(Railroads--Tracklaying machinery)

AC : NR: AP6029896

SOURCE CODE: UR/0413/66/000/015/0057/0057

INVENTOR: Gryaznov, V. A.

ORG: none

TITLE: Device for voltage control. Class 21, No. 184343

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 57

TOPIC TAGS: voltage regulator, electric relay

ABSTRACT: This Author Certificate presents a device for controlling the voltage to trigger and release electromagnetic relays and switches, which contains a voltage source and a controlling-measuring device. To measure and control automatically and to increase the accuracy of measurement, the controlling-measuring device is in the form of a decimal code to stepped voltage converter connected to a counter unit, operating from a pulse generator, and provided with a reverser for changing the count direction and a switch for selecting the initial output voltage level (see Fig. 1). The investigated relay is connected between the power supply and the counter unit through an amplifier. The relay contacts are connected in the circuit of a semiconductor switch connected in turn to the counter unit for setting the decimal code whose digital value corresponds to the required voltage.

UDC: 621.318.56.015.087

Card 1/2

ACC NR: AP6029896

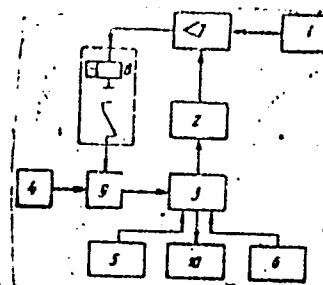


Fig. 1. 1 - voltage source;  
2 - decimal code to stepped voltage  
converter; 3 - counter unit; 4 -  
pulse generator; 5 - reversing  
device; 6 - switch; 7 - amplifier;  
8 - investigated relay; 9 - switch;  
10 - required voltage indicator

Orig. art. has: 1 diagram.

SUB CODE: 09/

SUBM DATE: 22Mar65

Card 2/2

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6

GRYAZNOV, V.I.,kand.tekhn.nauk

Binocular photographic levelling instrument. Transp.stroi.  
9 no.1:55-56 Ja '59. (MIRA 12:2)  
(Surveying--Instruments)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6"

C. A.

Manganite ores of the Nikopol'sk manganese deposits  
V. I. Grishnoy, *Izvst. Akad. Nauk U.S.S.R., Geol. Ser.* 1950, No. 2, 97-111. It was concluded that psilomelane-pyrolusite ores of these deposits arise from manganite ore as a result of its oxidation at the surface zone. Oxidation-reduction processes play a leading role in formation of ore minerals. Chem. analyses of manganite ore are provided, and are heating curves for a natural mixt. of manganite and pyrolusite.  
Gladys S. Macy

KARLOV, N.N.; GRYAZNOV, V.I.

Age and genesis of non-separated strata of Tertiary sands in  
the region of Zaporozh'ye city. Dokl.AN SSSR 94 no.5:931-932  
(MLRA 7:2)  
F '54.

1. Predstavлено академиком D.V.Nalivkinym.  
(Zaporozh'ye region--Geology, Stratigraphic)  
(Geology, Stratigraphic--Zaporozh'ye region)

GRYAZNOV, V.I.

Indications of the sublittoral conditions in the formation of ore  
facies in the Nikopol manganese deposits. Dokl.AN SSSR 96 no.1:151-154  
My '54.

1. Predstavleno akademikom A.G.Betekhtinym. (Nikopol--Manganese ores)  
(Manganese ores--Nikopol)

GRYAZNOV, V.I.

Nikopol' inesite - composite systems of isomorphic compounds (Mn,Ca)  
(MIRA 9:9)  
CO<sub>3</sub>. Min.sbor.no.9:303-309 '55.

1.Dnepropetrovsk, Gosudarstvennyy universitet.  
(Nikopol' (Ukraine)--Inesite)

GRYAZNOV, V.I.

~~Mineralogy of manganese ores of Nikopol'~~ in connection with the  
role of diagenesis in ore formation. Vop.min.osad.obr. 3/4:212-226  
'56. (MLRA 9:11)

1. Gosuniversitet. Nauchno-issledovatel'skiy institut geologii,  
Dnepropetrovsk.  
(Nikopol'---Manganese ores)

GRYAZNOV, V.I.

Correlation between Caeloma vigil M -Edw. fossil finds and  
Oligocene manganese ore facies. Dokl.AN SSSR 106: no.4:717-  
719 F '56.  
(MERA 9:6)

1.Dnepropetrovskiy gosudarstvennyy universitet imeni 300-  
letiya Vossoyedineniya Ukrayiny s Rossiyey. Predstavлено aka-  
demikom A.G.Betekhtinym.  
(Nikopol region--Grustacea, Fossil)

GRYAZNOV, V. I.

20-1-11/54

AUTHOR  
TITLE

KARLOV, N.N. and GRYAZNOV, V.I.  
On the Neocomian Series in the Depression Near the  
Black Sea.  
(O neokomskikh otlozheniyakh Prichernomorskoy vpadiny.-  
Russian)  
Doklady Akademii Nauk SSSR 1957 Vol 115, Nr 1,  
pp 152-154 (USSR)

PERIODICAL

ABSTRACT

The occurrence of neocomian deposits here and in the Ukraine in general has never been determined with certainty. In 1940 Dyssa classified with it a 30 m mass of green cretaceous sandy clays without fauna. They occur near Bol'shoy Tokmak, 235 to 265 m deep. According to Muratov the basis of the western part of that branch of the depression near to the Carpathians and of the southern part of the Karkinitic or the Black Sea depression as such undoubtedly consist of Paleozoic fold rocks. This was allegedly confirmed by physical data by Zavistovskiy. For the solution of this problem the results of an investigation of carbonate rocks from the rotor bore-hole of Novoalekseyevka from a depth of 2555 - 2556 m are of interest. By a study of organic fossils of this limestone its age was determined as neocomian, more exactly between the Valengin limits. Based

CARD 1/3

20-1-41/54

On the Neocomian Series in the Depression Near the  
Black Sea.

on this interpretation of the cross section and in consideration of other data, the Cretaceous deposits of the Black Sea depression can be characterized as follows: Danish stage 57-105 m, Maastriahrt 50-60 m, Campan-Cognac 78 m and more, Turon-Senoman 72 m and more, Alb 15-130 m, Apt 10 - 340, Barrem-Goteriv 90 m, Valengine 95 m and Tithon 18 m of thickness. Altogether 1627 m. It may be concluded that the hercynian fold basis is absent in the Black Sea deposit. The Donets Paleozoic has no direct connection with that of Crimea and the Caucasus. The formation of the Black Sea depression apparently began in the Cretaceous, in connection with tectonic movements of the Andean phase of the Pacific cycle in the Crimean-Caucasian province. The influence of the Austrian phase of the same cycle manifested itself here in the strong metamorphism of Lower Cretaceous deposits including those of Apt. They possess a high density (2,62) which clearly distinguishes them from those of the Russian plateau (2,2). It is pointed out that A.P. Karpinskiy indicated already 70 years ago that the Donets hill range represents a thick complex of deposits which was transformed by orogenesis and which was deposited in a comparatively narrow gulf of the Carboniferous sea. They are

CARD 2/3

20.4.41/4

On the Neocomian Series in the Dnepr-Sil'va Near the  
Black Sea.

no elevated section of an uninterrupted Paleozoic field  
of folds, as it was later erroneously assumed by an  
author. Karpinskij's statements are confirmed by those  
of the authors.

(! Illustration, 14 Slavic references)

ASSOCIATION: Scientific geological research institute of the  
Dnepropetrovsk State University.  
(Nauchno-issledovatel'skiy geologicheskiy institut  
Dnepropetrovskogo gosudarstvennogo universiteta)  
S.I. Mirovov, member of the Academy. Mar. 9, 1957

PRESENTED BY:

SUBMITTED: 6.1.57

AVAILABLE: Library of Congress.

CARD 3/3

SCV/20-121-1-45/35

AUTHOR: Gryaznov, V. I.

TITLE: A Rapid Method for the Mineralogical Diagnosis of Manganese Ores According to Their Electric Conductivity (Skorostnoy metod mineralogicheskoy diagnostiki mangansevykh rud po elektroprovodnosti)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 1,  
pp. 159 - 161 (USSR)

ABSTRACT: The useful manganese ores usually contain only few kinds of manganese minerals the determination of which is, however, difficult. The diagnosis is complicated by the colloidal origin of the ores, the fine-disperse state of the minerals, and by the occurrence of several closely related minerals. Also the successfully used methods are complicated and require experts and rather complicated apparatus. It is, however, very often necessary to carry out mineralogical mass determinations of ores. In the geological investigation of maritime-sedimentary manganese deposits it is often important to find the boundary between the pyrolusite and manganite zone. As is known, the most precious ores poor in phosphorus belong to the first

Card 1/4

A Rapid Method for the Mineralogical Diagnosis of  
Manganese Ores According to Their Electric Conductivity

SCV/20-121-1-45/55

zone (Ref 2). Together with G.Ya.Turovskiy the author employed the rapid method, described later, in the case of Nikopol' manganese deposit for the separation of the pyrolusite ores. Only few and contradicting data exist on the electric conductivity of manganese minerals (Ref 1). According to the geophysical publications the native manganese oxides and hydroxides have a specific resistance of up to  $10^6$  ohm cm and more. There are extremely great fluctuations in one and the same mineral (Table 1). These data are in absolute contradiction to the conductivity in polished microsection surfaces (Ref 3). In order to explain the reasons of this contradiction the author carried out measurements at Nikopol' samples which were subjected to a detailed mineralogical investigation. Ye.V.Sinyakov (Electrophysics Lab of the Physics and Mathematics Department, Dnepropetrovsk State University = laboratoriya elektrofiziki fiziko-matematicheskogo fakulteta )assisted in this investigation. The results are shown in table 2. The samples may obviously be divided into 3 groups according to the amount of their specific resistance. These groups correspond to their mineralogical composition.

Card 2/4

A Rapid Method for the Mineralogical Diagnosis of  
Manganese Ores According to Their Electric Conductivity

SOV/20-121-1-45/55

The differences between pyrolusite and manganite are great enough to characterize these two minerals. A portable millivolt ammeter connected with a flashlight battery, may be used if an ohmmeter is lacking (Fig 1). There are 1 figure, 2 tables, and 6 references, 6 of which are Soviet.

ASSOCIATION: Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo gosudarstvennogo universiteta im. 300-letiya vossoyedineniya Ukrayny s Rossiyey (Scientific Research Institute of Geology of Dnepropetrovsk State University imeni 300th Anniversary of the Reunification of the Ukraine and Russia )

PRESENTED: March 26, 1958, by A.G.Betekhtin, Member, Academy of Sciences,  
USSR

SUBMITTED: March 25, 1958  
Card 3/4

A Rapid Method for the Mineralogical Diagnosis of  
Manganese Ores According to Their Electric Conductivity

SOV/20-121-1-45/55

1. Manganese ores--Analysis    2. Minerals--Determination    3. Manganese ores--Conductivity  
4. Ohmmeters--Applications

Card 4/4

GRYAZNOV, V.I.; SELIN, Yu.I.

Principal geological characteristics of the Bol'she-Tokmak  
manganese deposit (the Ukrainian S.S.R.). Geol.rud.mestorosh.  
no.1:35-55 Ja-F '59.  
(MIRA 12:5)

1. Nauchno-issledovatel'skiy institut geologii Dnepropetrov-  
skogo universiteta i Ukrainskoye geologicheskoye upravleniye.  
(Dnieper Valley--Manganese ores)

14(6)

## AUTHOR:

Gryaznov, V.I., Candidate of Geological and Mineralogical Sciences, and Rudakov, V.K., Engineer SOV/98-59-4-7/17

## TITLE:

The Rate of Washing-Away of Loess Banks of the Kakhovka Reservoir (Razmyvayemost' lessovykh beregov Kakhovskogo vodokhranilishcha)

## PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 4, pp 32-33 (USSR)

## ABSTRACT:

The authors give a more precise definition of the formula of Ye.G. Kachugin to determine the washing-away grade of the above-mentioned banks. Proposed in 1955, this formula looks as follows:  $Q=k_p E t^b$ , whereby Q is the volume of the washing-away rock in cu m;  $k_p$  is the washability coefficient in cu m divided by ton-meters; E is the wave energy per year in ton-meters; t is the number of years; b is the power indicator, less than 1. For loess-like grounds, Ye.G. Kachugin cites the following values:  $k_p=25 \cdot 10^{-3} \cdot 47 \times 10^{-5} \text{ m}^3/\text{ton-meters}$ . The correction was rendered possible by way of new knowledge gained through recent

Card 1/2

SOV/98-59-4-7/17

The Rate of Washing-Away of Loess Banks of the Kakhovka Reservoir

observations on the washing-away phenomenon of the Kakhovka reservoir. This study was carried out by the Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo universiteta (Research Institute of Geology of the Dnepropetrovsk University) in cooperation with the Ukrainskoye otdeleniye instituta "Gidroenergoprojekt" (Ukrainian Section of "Gidroenergoprojekt" Institute) during the period 1955-1957. The formula of Ye.G. Kachugin was incorrect as it could only be used for calculation of low banks with sand bars. However, steep banks, as it was learned meanwhile, are subject to a much stronger washing-away effect. Therefore, the washing-away data on the banks of another reservoir, the Dnepropetrovskoye vodokhranilishche (Dnepropetrovsk Reservoir), were ascertained by the newly-amended formula. There is 1 graph and 1 table.

Card 2/2

GRYAZNOV, V.I.; ROMANENKO, G.N.

Separation of manganese from iron in the weathering surface of  
Mesozoic and Cenozoic crystalline rocks in the Ukrainian  
Crystalline Shield. Lit. i pol. iskop. no.3:134-137 '63.

(MIRA 17:1)

I. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo  
gosudarstvennogo universiteta.

BARANOVA,N.M.; BASS, Yu.B.; BOGDANOVICH, V.V.; VIL'GOS, Ye.F.; GRAZHDANTSEV, I.I.; GRYAZNOV, V.I.; CUTOROVA, Ye.D.; KABRIZON, V.M.; MOLYAVKO, G.I.; MOROKHOVSKAYA, M.S.; NOSOVSKIY, M.F.; ROMODANOVA, M.P.; SOSNOV, A.A.; SHEVCHENKO, Ye.S.; USENKO, I.S.; Prinimali uchastiye: BONDAR', A.G., inzh.-gidrogeolog; SACHENKO-SAKUN, V.M., st. topograf; SHELUKHINA, A.V., st. tekhnik-geolog; STOPIK, M.A., st. tekhnik-geolog; REUTOVSKAYA, E.A., tekhnik; BETEKHTIN, A.G., akademik, glav. red.[decensed]

[Nikopol' manganese-ore basin] Nikopol'skii margantsevrudnyi bassein. Moskva, Izd-vo "Nedra," 1964. 534 p.  
(MIRA 17:6)

1. Institut geologicheskikh nauk AN Ukr.SSR (for Baranova, Molyavko, Romodanova, Usenko).
2. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo gosudarstvennogo universiteta (for Gryaznov, Nosovskiy).
3. Trest "Dneprogeologiya" (for Bogdanovich, Kabrizon).
4. Trest "Kiyevgeologiya" (for Bass).
5. Trest "Nikopol'-Marganets" (for Vil'gos, Grazhdantsev, Sosnov).

GRYAZNOV, V.I.; CHIRVONOKAYA, I.V.

Phosphorous minerals in the Nikopoi' manganese cres. Lit. i pol.  
(MIRA 18:9)  
iskop. no.4:153-160 Jl-Ag '65.

1. Nauchno-issledovatel'skiy institut geologii Dnepropetrovskogo  
gosudarstvennogo universiteta.

SAVOST'YANOV, Dmitriy Dmitriyevich; GRYAZNOV, V. I., red.; MELENT'YEV, A.M.,  
tekhn.red.

[Construction and repair of calculating machines (models KEV, KEL, KELE,  
SAL, SASL) Konstruktsiya i remont vychislitel'nykh mashin (modeli KEV,  
KEL, KELE, SAL, SASL). Izd.2-oe, perer.i dop. Moskva, Gos.stat.izd-vo,  
1957. 223 p. (MIRA 10:11)  
(Calculating machines)

GRYAZNOV, V.I.

DVOYRIN, Elya Yurmovich; SOKOLOV, Sergey Dmitriyevich; GRYAZNOV, V.I., red.;  
KAPRALOVA, A.A., tekhn.red.

[Problems in teaching collective farm accounting] Zadacha dlia  
uchebnoi praktiki po bukhgalterskomu uchetu v oklkhozakh; dlia  
podgotovki bukhgalterov kolkhozov v uchebnykh kombinatakh UPK  
TsSU SSSR. Izd. 2., perer. Moskva, Gos.stat.izd-vo, 1957. 253 p.  
(MIRA 11:7)

(Collective farms--Accounting)

(GRYAZNOV) V.I.  
YEZHOV, Anatoliy Ivanovich; GRYAZNOV, V.I., red.; MELENT'YEV, A.M., tekhn.  
red.

[Industrial statistics] Statistika promyshlennosti. Izd. 3-e,  
perer. Moskva, Gos. stat. izd-vo, 1957. 375 p. (MIRA 11:4)  
(Industrial statistics)

YUGENBURG, Semen Moiseyevich; GRYAZNOV, V.I., red.; KAPRALOVA, A.A., tekhn. red.

[Index method in Soviet statistics] Indeksnyi metod v sovetskoi  
statistike. Moskva, Gos. stat. izd-vo, 1958. 190 p. (MIRA 11:11)  
(Statistics)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6

647121  
VOLODARSKIY, Lev Markovich; GRYAZNOV, V.I., red.; VINOGRADOVA, V.A., tekhn.  
red.

[Industrial statistics and problems of planning] Statistika  
promyshlennosti i voprosy planirovaniia. Moskva, Gos.stat. izd-vo,  
1958. 274 p.  
(Industrial statistics)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000617130007-6"

TARANOV, Vladimir Vasil'yevich; GRYAZNOV, V.I., red.; PYATAKOVA, N.D.,  
tekhn.red.

[Statistics of new equipment and technological process in U.S.S.R.  
industry] Statistika novoi tekhniki v promyshlennosti SSSR.  
Moskva, Gos.stat.izd-vo, 1959. 91 p.  
(MIRA 13:1)  
(Industrial statistics)

USTINOV, Arkadiy Nilovich; GRYAZNOV, V.I., red.; PYATAKOVA, N.D.,  
tekhn.red.

[Statistical study of the utilization of fixed assets in  
an industrial enterprise] Statisticheskoe izuchenie  
ispol'zovaniia osnovnykh fondov promyshlennogo predpriatiia.  
Moskva, Gos.stat.izd-vo, 1959. 129 p. (MIRA 13:1)  
(Metal--Industrial statistics)

SHAPIRO, Izraill' L'vovich; GRYAZNOV, V.I., red.; MELENT'YEV, A.M.,  
tekhn.red.

[Accounting machines and their features] Schetnye mashiny i ikh  
kharakteristiki. Moskva, Gos.stat.izd-vo, 1959. 230 p.  
(MIRA 13:3)

(Accounting machines)

KOKOVIN, Nikolay Aleksandrovich; GRYAZNOV, V.I., red.; PYATAKOVA,  
N.D., tekhn.red.

[Statistics of urban economy] Statistika gorodskogo  
khoziaistva. Moskva, Gos.stat.isd-vo, 1959. 247 p.  
(MIRA 12:12)  
(Cities and towns--Statistics)

SOBOL', Valerian Antonovich; MALYSHEV, I.S., red.; GRYAZNOV, V.I.,  
red.; PIATAKOVA, N.D., tekhn.red.

[Studies on problems in the balance of the national economy]  
Ocherki po voprosam balansa narodnogo khoziaistva. Pod red.  
I.S.Malyshova. Moskva, Gosstatizdat TsSU SSSR, 1960. 227 p.  
(MIRA 13:10)

(Russia--Economic policy)

VOLODARSKIY, Lev Markovich; GRIAZNOV, V.I., red.; KAPRALOVA, A.A.,  
tekhn.red.

[Industrial statistics and planning] Statistika i planirovanie  
promyshlennosti. Izd.2., perer. i dop. Moskva, Gosstatizdat  
TsSU SSSR, 1960. 305 p. (MIRA 13:11)  
(Industrial statistics) (Industrial management)

VAYNSHTEYN, Al'bert L'vovich; RYABUSHKIN, T.V., red.; GRYAZNOV, V.I.,  
red.; PYATAKOVA, N.D., tekhn.red.

[National wealth and accumulation in prerevolutionary Russia;  
statistical study] Narodnoe bogatstvo i narodnokhoziaistvennoe  
nakoplenie predrevoliutsionnoi Rossii; statisticheskoe issledo-  
vanie. S predisl. S.G.Strumilina. Moskva, Gosstatizdat TsSU  
SSSR, 1960. 482 p. (MIRA 13:8)

(Wealth)

(Income)

PTUKHA, Mikhail Vasil'yevich, akademik; GRYAZNOV, V.I., red.;  
MELENT'YEV, A.M., tekhn.red.

[Studies on population statistics] Ocherki po statistike nase-  
leniya. Moskva, Gosstatizdat TsSU SSSR, 1960. 456 p.  
(MIRA 14:6)

1. AN USSR, chlen-korrespondent AN SSSR.  
(Population—Statistics)  
(Russia—Statistics, Vital)

PETROV, A.I., prof.; LESHCHINSKIY, M.I., kand. ekon. nauk; MAKSIMOVA, V.N.,  
dotsent; MALYY, I.G., dotsent; MOSKVIN, P.M., dotsent; TITEL'BAUM,  
N.P., dotsent; URINSON, M.S., dotsent; EYDEL'MAN, M.R., kand. ekon.  
nauk; GUREVICH, S.M., red.; GRYAZNOV, V.I., red.; PIATAKOVA, N.D.,  
tekhn. red.

[Course in economic statistics] Kurs ekonomicheskoi statistiki. Izd.3.,  
dop. i perer. Moskva, Gosstatizdat TsSU SSSR, 1961. 507 p.  
(MIRA 14:6)

(Statistics)

SAVINSKIY, Dmitriy Vasil'yevich, prof., zasluzhennyy deyatel' nauki RSPbR:  
GRYAZNOV, V.I., red.; MELENT'YEV, A.M., tekhn.red.

[Course on industrial statistics] Kurs promyshlennoi statistiki.  
Izd.5.. dop. i perer. Moskva, Gosstatizdat TsSU SSSR, 1960. 479 p.  
(MIRA 14:3)

(Industrial statistics)

LUKIN, Lev Ivanovich; OSTROUMOV, Valentin Sergeyevich; RYABUSHKIN, T.V.,  
doktor ekon. nauk, prof., red.; GRYAZNOV, V.I., red.; VOLCHEK,  
V.L., tekhn. red.

[Organization of statistics in foreign countries] Organizatsiya sta-  
tistiki v zarubezhnykh stranakh. Pod red. T.V.Riabushkina. Moskva,  
Gosstatizdat, TsSU SSSR, 1961. 245 p. (MIRA 14:12)  
(Statistics)

SATUNOVSKIY, Leon Mikhaylovich; GRYAZNOV, V.I., red.; PONOMAREVA, A.A., tekhn. red.

[Measuring and analyzing labor productivity in an industrial enterprise] Voprosy izmerenija i analiza proizvoditel'nosti truda na promyshlennom predpriatii. Moskva, Gosstatizdat TsSU SSSR, 1961. 227 p. (MIRA 15:4)  
(Labor productivity)

BAKLANOV, G.I., prof.; IVANOV, A.I., dots.; SHIFMAN, A.G., dots.; USTINOV, A.N., dots.; GRYAZNOV, V.I., red.; KAPRALOVA, A.A., tekhn. red.

[Statistics of an industrial enterprise] Statistika promyshlennogo predpriatiia. Pod red. G.I.Baklanova. Moskva, Gosstatizdat TsSU SSSR, 1961. 434 p. (MIRA 14:12)

1. Moscow. Ekonomiko-statisticheskiy institut. Kafedra promyshlennoy statistiki. 2. Kafedra promyshlennoy statistiki Moskovskogo ekonomiko-statisticheskogo instituta (for Baklanov, Ivanov, Shifman, Ustinov).

(Industrial statistics)