

GEOLOGISTS of UKRAINE

TRADITIONS ARE KEPT UP THE FUTURE IS CREATING





Dear colleagues!

We are proud of long-history traditions of the Ukrainian geology. Ukraine became one of the centers of the economic expansion in Russian empire at the beginning of 20th century. At that time, Donbas turned out to be the center of coal mining and metallurgical industry of imperial Russia, Kryvyi Rih—the center of iron-mining industry, Nikopol basin—the center of manganese industry. The intensive industrial and housing construction required the exploration of the minerals and underground waters. The rapid development of the agriculture required the mineral fertilizers and the analysis of soil quality. All these explorative research have been performed by the geologists working at the Universities of Kharkiv, Kyiv, Odesa as well as Katerynoslav (Dnipropetrovsk) Mining Institute and Kyiv Polytechnic Institute.

In Western Ukraine, being at that time within the borders of Austro-Hungarian Empire and Poland, the oil exploration

developed rapidly. L'viv University became the center of geological research.

In Soviet period, prior to oil-field discovery in Western Siberia, Ukraine became the center of gas exploitation in Soviet Union. More than 111 mineral raw materials are explored. Due to the planned financial backing of the geological prospecting and exploration, Ukraine possessed one of the most extensive mineral raw material bases with the potent geological service, fundamental and sectoral science and well-organized manpower training system.

Ukrainian specialists are now working not only in Ukraine but also in all republics of the former USSR and foreign countries.

When perestroika was launched in the Soviet Union, the geological prospecting and exploration has degraded. The market economy required the reorganization of the branch. The organization of non-government geological survey companies, the

development of the novel technologies and approaches become a challenging topic of the day.

20 years ago in 1991, the first company of NADRA Group was launched by the group of Ukrainian scientist geologists.

As initiators of novel company, we were fully enthusiastic in our desire to create high-technological company of novel type being as a successor to the traditions of Ukrainian geologists. We were aware that such company in future should engage in competition with leading international service companies starting their activities in Ukraine. Our road was not an easy one. The initial capital was lacking. We were not capable of obtaining credits since nobody could provide guarantees. At that time, with the aim of earning money for purchasing the equipment for geological prospecting and exploration, we exported the services and oil-and-gas equipment to Russian Federation in exchange for the counter deliveries of oil and gas by the order of Ukrainian government. The former scientists learned how to earn money and to do business.

At present NADRA Group provides a vast spectrum of services and solutions on prospecting and exploration of the oil and gas deposits as well as non-traditional sources of hydrocarbon raw

materials. The companies comprising NADRA Group provide the complex services including the geological assessment of the survey areas, the prospecting and exploration of the deposits, the management of exploitation, and the design of exploitation objects, optimization and stimulation of the producing wells, information support and consulting.

Over 20 years of business activity, NADRA Group has become a leading oilfield service company of Ukraine known by the complexity of the services provided as well as high geological and commercial efficacy of the proposed solutions.

Today, NADRA Group includes 10 production and service companies with approximately 1 500 employees working under the NADRA Group trademark. This is a guarantee of state-of-theart innovation services conforming to the best world standards.

NADRA Group is oriented towards the development of their in-house technologies as well as the implementation of the best world technologies allowing the improved efficacy and the competitive ability of the services and solutions.

Due to its high potential, Nadra Group is capable to provide not only separate services but complex solutions for the problems of our customers. The human and technical recourses of our production and service companies and our partners as well as the collaboration with All-Ukrainian public organization "Ukrainian Association of Geologists" provide the vast possibilities for realizing the integrated projects and solutions.

The integrated projects are developed by NADRA Group in collaboration with its long standing partners—the leading manufacturers, the service organizations, the scientific centers of Ukraine, and several foreign companies.

NADRA Group is a partner of Halliburton Company (USA) in joint projects performed in Ukraine. One of the promising directions of such cooperation is participation in the projects on the field development of the deposits of shale gas, methane and coal deposits in Ukraine.

NADRA Group executes the projects ordered by both Ukrainian and foreign companies including those in Russian Federation, Belarus, Kazakhstan, Turkmenistan, Azerbaijan and other countries. For operations in Russian Federation and other CIS countries, "Nevskaya Geophysika", Limited Liability Company as Subsidiary Company in Russian Federation was set in Saint-Petersburg.

NADRA Group cooperates fruitfully with the world-known Shell Company. The seismic exploration works done for Shell were of

paramount importance for Nadra Group providing the experience of the international cooperation according to the utmost standards in the technologies of labor safety, industrial security and environmental protection.

Along with the production activity, one of the priorities of NADRA Group consists in keeping up and multiplying the achievements of the Ukrainian geology adhering to its famous traditions. We do our best to ensure the efficacy and competitiveness of Ukrainian geology and national technologies of hydrocarbon production in the setting of market economy.

This booklet is represented as an expression of my gratitude to all employees of NADRA Group who managed to continue the best traditions of Ukrainian geology in the difficult setting of transition to market economy engaging the up-to-date technologies and creating the company of the novel type, for which, as I believe, the great future is reserved.

With best regards,
Pavlo Zahorodnyuk
Chairman of the Board
Nadra Group



NADRA Integrated Petroleum Technologies, Ltd

NADRA Integrated Petroleum Technologies, Ltd is established in 2003 to provide integrated services in oil-and-gas industry involving capabilities of the service companies of NADRA Group. The specialized companies—NADRA Group partners are also involved in realization of the integrated projects.

The Company is fully responsible for both the quality of the specific services and final results.

The basic activities are as follows:

- Survey and exploration of oil-and-gas fields

- -Production support, optimization and production management, well stimulation
 - Ecological support of oil-and-gas production projects
 - Integrated projects
 - Unconventional hydrocarbon resources
 - Field infrastructure development

The Company structure comprises several Departments: integrated projects; geological and hydrodynamic modeling of oil-and-gas fields, project management, marketing and sales, tender activities.



P.O. Zagorodnyuk,

Cand. Sci. (geology and mineralogy)— Chairman of the Board of NADRA Group, General Director of NADRA Integrated Petroleum Technologies, Ltd, Chairman of the Board of All-Ukrainian Public Organization "Ukrainian Association of Geologists" Zagorodnyuk, Pavlo Oleksiiovych graduated from the Geology Department of T.Shevchenko Kyiv State University in 1973, the specialty—"Geological survey and mineral exploration".

Since 1973—chief of South-Urals expedition in Kyiv University (staff 30 persons) working on research contract agreements with "Bashneft" Production Association, Ministry of Petroleum Industry of USSR and lecturer in Geology Department of Kyiv University. In 1986 defended his doctoral dissertation.

In 1991, Dr. P.Zagorodnyuk created Nadra Concern, Closed Joint-Stock Company, the first Company of Nadra Group engaging in implementation of high technologies in oil prospecting and exploration in Ukraine. P.Zagorodnyuk became the President of Company.

Since 1993, Dr. P.Zagorodnyuk is the Vice-President of "Ukrzarubizhnaftogaz" Ukrainian foreign economic oil-and-gas corporation. Since 1997—again the Chairman of the Board of "Nadra Concern" Joint-Stock Company. At that time, the ideology of the activities of NADRA Group has been elaborated.

In February 2000, Dr. P.Zagorodnyuk initiated the foundation of "Ukrainian Association of Geologists". For 11 years, Dr. P.Zagorodnyuk has been heading the Association.

In 2003, Dr. P.Zagorodnyuk was appointed the Chief Advisor of the Chairman of the Board of "Naftogaz of Ukraine", National Joint-Stock Company. He was engaged in foreign economic projects on oil-and-gas survey and production in the countries of Middle East, Africa and CIS contributing to the extension of the activities of the Ukrainian service companies in the world markets and promoting the investments into petroleum industry of Ukraine.

At present, Dr. P.Zagorodnyuk is a Chairman of the Board of NADRA Group, General Director of NADRA Integrated Petroleum Technologies, Ltd, Chairman of the Board of All-Ukrainian Public Organization "Ukrainian Association of Geologists", Head of Tutkovsky Institute, Editor-in-Chief of the journal "Geologist of Ukraine", Editor-in-Chief of the "Collection of Scientific Papers of Tutkovsky Institute", member of editorial board of "Geological Journal". He is the author of 74 geological reports and more than 30 scientific papers.



Heribert Lenhart— Senior Vice-Chairman of the Board of NADRA Group, Senior Deputy of General Director of NADRA Integrated Petroleum Technologies, Ltd In 1976 Heribert Lenhart graduated from Belgrade Economy Institute, specialty—foreign trade economy. 35 years of work experience in international trade, 11 years in gas and oil industry. He was employed with Rudnap Export-Import, Belgrade representing its interests in Algeria, Russia (Moscow) and Ukraine (Kyiv).

He started his work in NADRA Group as Marketing and Sales Department Director of Nadra Concern, JSC.

Actually he holds office of Senior Vice-President of the Board of NADRA Group and Senior Deputy of General Director of NADRA Integrated Petroleum Technologies, Ltd.

On the occasion of 20th anniversary of NADRA Group, Heribert Lenhart was awarded the corporative Medal of Merits.





I.P. Gafych,
Cand. Sci. (geology
and mineralogy)—
Vice-Chairman of the Board
of NADRA Group, Deputy
General Director of NADRA
Integrated Petroleum
Technologies, Ltd

Gafych, Ivan Petrovych in 1979 graduated from Ivano-Frankivsk Oiland-Gas Institute qualified as Mine Engineer-Geophysicist. In 1989, he finished his postgraduate studies in the Institute of Geology and Geochemistry of Mineral Fuels of the Academy of Sciences of Ukrainian SSR. Dr. I.Gafych is a Candidate of Sciences (geology and mineralogy).

He has 32-years record of service starting his career as Geophysicist in the group of radiation logging in Stryi geophysical expedition at well sites of "Ukrgeofizyka", Public Geophysical Enterprise. He worked as Leading Geophysicist, Head of Geological department, Deputy Director of "Prykarpatpromgeofizyka", pilot production division, "Ukrgeofizyka", Public Geophysical Enterprise, Engineer on oil-and-gas field development of "Boryslav Petroleum Company", Joint Venture, Senior researcher of the Institute of Geology and Geochemistry of Mineral Fuels of the NAS of Ukraine. Since 2000, Dr. I.Gafych works in Nadra Group.

Dr. I.Gafych is awarded the First Class Medal of Merits by Association of Ukrainian Geologists. He is awarded the Honorary Title of Honorary Prospector.

On the occasion of 20th anniversary of NADRA Group, Dr. I.Gafych was awarded the corporative Medal of Merits.



A.V. Nastenko— Deputy General Director of NADRA Integrated Petroleum Technologies, Ltd.

National Agrarian University of Ukraine, specialty—Economist Mathematician (cyberneticist).

In 1996–1998 Mr. A.Nastenko worked in Ministry of Economic Relations and Trade of Ukraine as Specialist of the first category, the Chief specialist, Deputy Director of Administration on information support. In 2004–2011, Mr. A.Nastenko was in office as top executive in State Information and Analytical Center for Monitoring of Foreign Product Markets.

Mr. A.Nastenko supervised the research on analysis of foreign economic activities of Ukraine, the programs of state support of Ukrainian export ordered by Ministry of Economy.

Mr. A.Nastenko participated in preparing the Laws of Ukraine "On Electronic Documents and Electronic Document Flow" and "On Electronic Digital Signature". He is co-author of the edition of "Importers and Exporters in Ukraine" catalogue.

Mr. A.Nastenko is an author of the papers on promoting electronic data exchange in Ukraine and the role of information support in foreign economic activity.



V.V. Viflyantsev, Head of Marketing Department



O.A. Tikhonova, Deputy Head of Marketing Department









Discussion on technologies for improving oil-and-gas production in the Western Ukraine fields between the specialists of Nadra Group and RAG, Austrian oil-and-gas production company

Visit of the specialist of Nadra Group and Public Company "Ukrgazvydobuvannia" to "AGOCO", the Libyan gas production company. Benghazi, 2005





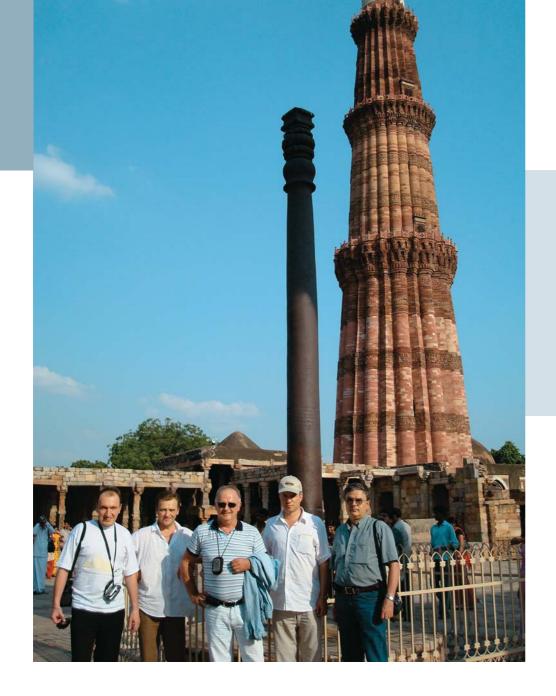
Specialists of Nadra Group, "Naftogaz of Ukraine", NJSC and representatives of Ukrainian Embassy in Iran. Teheran, 2006



Representatives of Nadra Group with their partners from Saudi Arabia at exhibition GEO 2006, Bahrain



Friendly meeting of the specialists of Nadra Group and Halliburton Company in Houston, 2007



Specialists of Nadra Group visiting India, New-Deli, 2007



Delegation of Nadra Group participates in EAGE exhibition and conference.
Amsterdam, 2009

Oil and gas exploration and production integrated services in Russian Federation and other US countries are provided by NADRA Group's organizational division—Nevskaya Geofizika, Ltd (St. Petersburg, Russian Federation).

Nevskaya Geofizika's booth at the 4th International Conference EAGE in St. Petersburg, 2010





A.V. Shushkova— General Director of Nevskaya Geofizika Ltd

Antonina Volodymyrivna Shushkova graduated from Leningrad Aeronautical engineering Institute.

She worked as the systems engineer at the State Institute of applied chemistry in St. Petersburg.

Since 2008 she works in the structure of Nadra Group.



Participants of International Exhibition MIOGE, Moscow, 2010



NADRA Data Processing Center, JSC

NADRA Data Processing Center, Joint Stock Company is a service geological survey company founded by the scientists-geologists in April 1991 as Nadra Concern, Closed Joint Stock Company in order to research and implement advanced technologies in the field of geology.

In 2001, Company purchased up-to-date seismic equipment—Origin 2100 server, O2 "Silicon Graphics Inc." work stations and Focus (Paradigm) processing system. The Center for processing and interpretation of geological and geophysical information was organized as a unit of Nadra Concern, Closed Joint Stock Company.

In 2008, the cluster with the powerful work stations based on multicore processors was purchased and that became a base of the Geological-Geophysical Data Processing Center.

In 2011, in the course of the structural reorganization of NADRA Group, Nadra Concern, Closed Joint Stock Company was renamed in NADRA Data Processing Center, Joint Stock Company representing the largest center for processing geological and geophysical information in Ukraine. The Center is equipped with the powerful computers and constantly updated software of the leading world companies Paradigm, Schlumberger. The in-house software is also used.

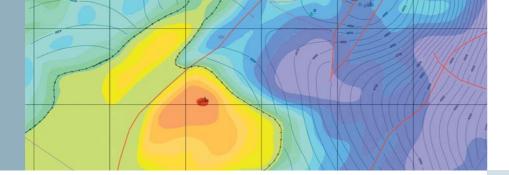
At present, staff of the Center represents more than 70 highly qualified specialists, among them—7 Candidate of Sciences.

The professionalism of the Center performing works within the decades and the ability of its staff to solve the most difficult geological tasks are highly appreciated by our customers, first by foreign ones.

> Employees of NADRA Data Processing Center, JSC at work







Scope of services of the NADRA Data Processing Center:

- 1. Processing and interpretation of the following data:
 - 2D, 3D seismic survey
 - Well logging
 - Borehole seismic and vertical seismic profiling (VSP)
 - Gravimetric and magnetic survey
- 2. Re-processing and re-interpretation of previously acquired geological and geophysical data.
- 3. Creation of geological models of oil-and-gas fields and underground gas storage.

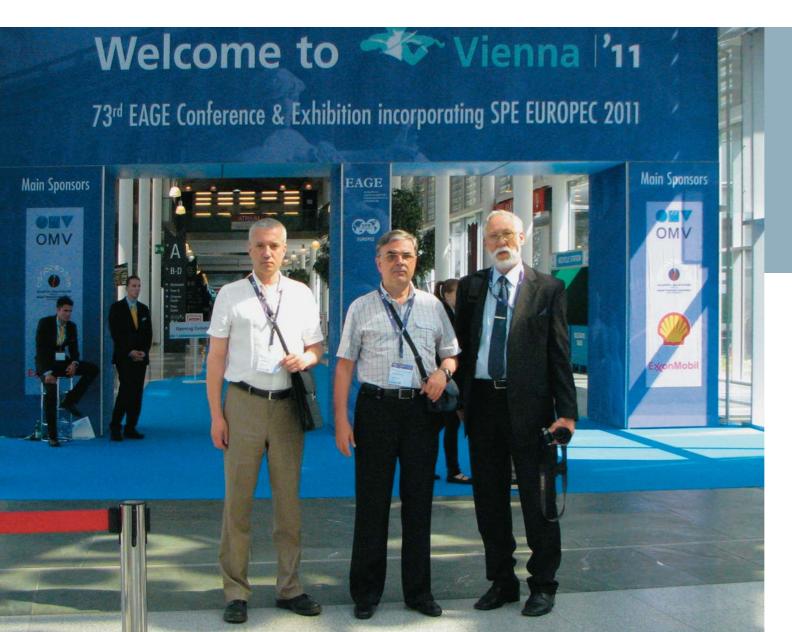
The activity of the Center is regulated by the Quality Control System on the basis of international standards ISO 9001:2000 and based on upgrading and updating of geophysical services on the base of implementation of scientific achievements and IT-technologies in the field of geological-geophysical data processing and interpretation.

In "NADRA Data Processing Center", JSC the veterans are working side by side with talented and promising young specialists.

The staff of "NADRA Data Processing Center", JSC improves the professional skills, takes part at the conferences, and publishes the scientific and scientific-popular papers in Ukrainian and international journals.

On request of production companies, NADRA Data Processing Centre works intensively on creation of data banks containing upto-date geological-geophysical and production data. The volume of information, arriving in the Centre, makes tens terabytes annually. The Centre effectively solves problems related to informational and parametric support of the seismic data processing and interpretation, estimation of hydrocarbon reserves, and identification of the complex hydrocarbon saturated reservoirs, namely: carbonates, rocks of the crystalline basement, thin-layer of terrigenous sections, rock fracturing zones, etc.

It is impossible to write about all employees of the Company. Let us mention those who comprise real golden reserve of the Company.



At the International EAGE–2011 Conference in Vienna: G.D. Lisny, V.V. Mershchii, V.G. Kolisnichenko



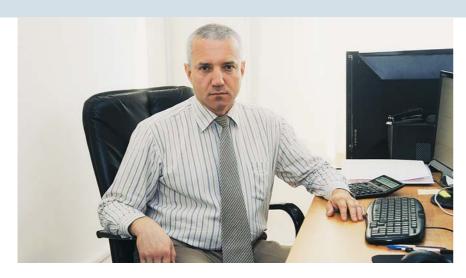
I.V. Solovyov, Cand. Sci. (geology and mineralogy)—Chairman of the Board of NADRA Data Processing Center, JSC

Solovyov, Igor Viacheslavovych graduated from T.Shevchenko Kyiv State University in 1981. In 1984 he finished his postgraduate studies. In 1987—defended his thesis and received a degree of Cand. Sci. (geology and mineralogy).

Dr. I. Solovyov worked as Junior researcher, Head of sector, Head of problem laboratory of physical-chemical properties of rocks, Associate Professor of Geology Department.

Since February 1994, Dr. I. Solovyov is the Director of Terra Ukraine, Research Computation Center. Since 2010, Dr. I.Solovyov is a Chairman of the Board, NADRA Data Processing Center, JSC. He contributed much to bringing into practice the novel technologies of prospecting and exploration of oil-and-gas fields, in particular, 3D seismic exploration, development of three-dimensional geological models, and prognosis of filtration capacity of hydrocarbons deposits.

Dr. I.Solovyov is awarded the Honorary Title of Honorary Prospector for his high professionalism and knowledge.



G.D. Lisny, Cand. Sci.(Physics and Mathematics)—Senior Vice-Chairman of the Board of NADRA Data Processing Center, JSC

Lisny, Georgiy Dmytrovych graduated from T.Shevchenko Kyiv State University in 1983, specialty—geophysical methods for survey and prospection of mineral deposits. In 1986, he finished his postgraduate studies. Since 1992—Associate Professor in Geology Department of T.H.Shevchenko Kyiv State University. Together with Yu.V.Tymoshyn, Dr. G.Lisny wrote the first Ukrainian manual on the theory of processing of geophysical information. He is an author of more than 50 scientific papers.

Since 1994, Dr. G.Lisny started his career in Nadra Concern, JSC engaging in implementation of telemetric recording equipment, the modern potent vibration sources and novel computer-assisted technologies of data processing and interpretation, development of digital three-dimensional models and the models of filtration capacities of hydrocarbon deposits in the practice of seismic exploration in Ukraine.

Since 1996, Dr. G.Lisny is a Corresponding Member of Ukrainian Petroleum Academy. In 2003, he was awarded the Golden Badge of "Ukrainian Association of Geologists", the All-Ukrainian public organization.

He was awarded the Honorary Title of Honorary Prospector for his contribution to the field of geology in Ukraine.

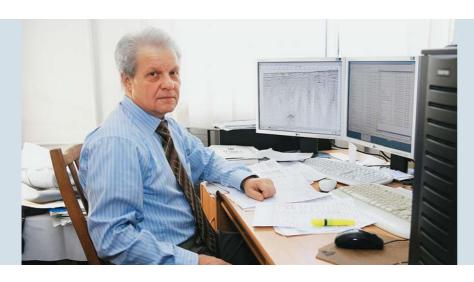


V.V. Mershchii, Candidate of Technical Sciences— Scientific adviser of NADRA Data Processing Center, JSC

Mershchii, Viktor Vasyliovych graduated from Kyiv College of Geological Survey in 1968. In 1973, he graduated from T.H.Shevchenko Kyiv State University, specialty—geophysical methods for survey and prospection of mineral deposits.

Dr. V. Mershchii is a Candidate of Technical Sciences. He is an author of more than 120 scientific publications and 11 inventions. He is co-author of the monograph "Seismic Holography in Media of Complex Structure" (1989).

Since 1998, Dr. V.Mershchii works in NADRA Data Processing Center, JSC as Director of Computation Center, Head of Department of processing data of seismic exploration, scientific adviser of the Center of processing geological and geophysical information.



O.I. Polunin— Head of seismic data processing department

Polunin, Oleksandr Igorovych graduated from Geology Department of T.Shevchenko Kyiv State University in 1973, specialty—Geologist-geophysicist.

In 1973–1996, he worked as Geophysicist in "Ukrgeofizyka", State Geophysical Enterprise (operating EOM BESM-4), Senior geophysicist (operating EOM Sigma-5 and M-4030), Head of Group of information processing (processing of data obtained in the course of Urenhoi expedition in systems SCS-3 and SOS PS and data of marine seismic exploration), Leading geophysicist of "Ukrgeofizyka", Technological Center of State Geophysical Enterprise.

Since 2001, Dr. O.Polunin works in Nadra Group engaged in processing of 3D/2D seismic exploration data in Focus (Paradigm) system operating work stations O2 (Silicon Graphics Inc.).



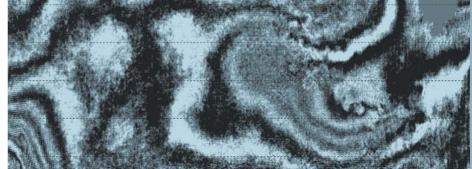
V.G. Kolisnichenko, Cand. Sci. (geology and mineralogy)—Head of Department of complex processing and interpretation of geological and geophysical information

Colisnichenko, Volodymyr Grygorovych graduated from Geology Department of Dnipropetrovsk Mining Institute in 1968.

He worked in Kyiv geophysical department of USGSJ engaging in the problems of computed processing of the geological exploration data and worked as Chief geophysicist in "Ukrgeofizyka", State Geophysical Enterprise.

Since 1988—Candidate of sciences (geology and mineralogy), since 1994—Corresponding Member of Ukrainian Petroleum Academy. Dr. V.Kolisnichenko is an author of more than 60 scientific publications.

Since 1997, Dr. V.Kolisnichenko works in Nadra Concern, JSC. He is engaged in estimation of the oil-and-gas field deposits in Ukraine. He is an author of important information solution including those pertaining to the National Data Base on geological and geophysical information in Ukraine. Dr. V.Kolisnichenko is an author and co-author of a set of production and research projects in seismic exploration. Recently he focuses on the problems of integration of 3D seismic exploration data and well loggin data with the aim of predicting the areas of distribution of oil-and-gas bearing collector rocks.





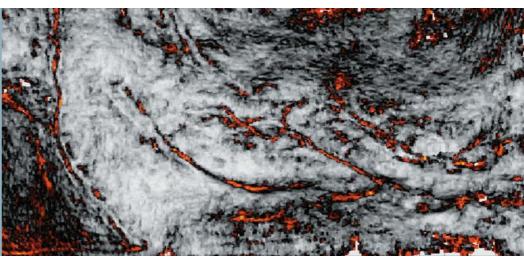
Yu.L. Renkas— Director of geological and geophysical data processing and interpretation Center

Renkas, Yurii Leonidovych graduated from Kyiv Geological Survey College and Ivano-Frankivsk National Technical University of Oil and Gas.

In 1998, he was enrolled as a Technician geophysicist to field expedition of Nadra Group.

Since 2001, Mr. Yu.Renkas is Geophysicist of the geological and geophysical data processing center of "Nadra Concern", JSC, since 2004—Senior geophysicist of seismic data processing department, since 2008—Director of geological and geophysical data processing and interpretation Center.





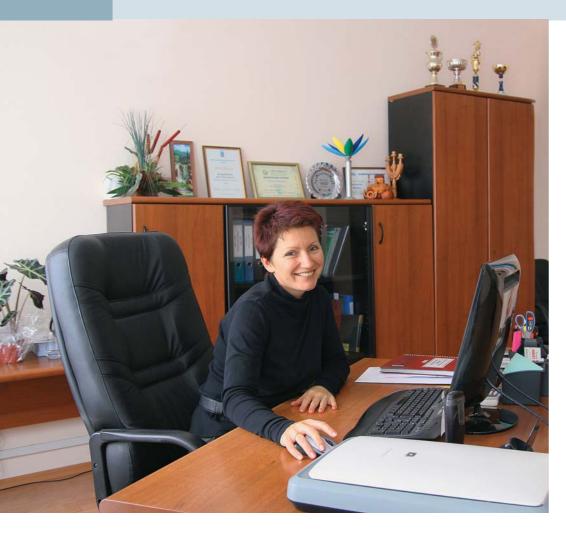
Makovenko, Dmytro Valeriyovych— Head of Sector for prestack deep migration



Simachenko, Mykhailo Vasyliovych— Head of Sector for processing data of seismic exploration



Voropayev, Mykhailo Volodymyrovych— System administrator



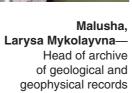


Shtanko, Dariia Sergiivna— Geophysicist

Orlova, Olena Volodymyrivna— Secretary



Bugrii, Viktor Gryhorovych, Candidate of Sciences (geology)— Leading geophysicist



Khalimon, Oleksandr Mykolayovych— Geophysicist







Martyniuk, Liudmyla Volodymyrivna— Geophysicist of I category



Kuzmenko, Liudmyla Ivanivna— Accountant, in Nadra Group since 1997



Gnatiuk, Olga Ivanivna— Accountant, in Nadra Group since 1998



Kaduchenko, Inna Fedorivna— Human Resources Manager, in Nadra Group since 1996



The list of employees of NADRA Data Processing Center, JSC awarded the Medal of Merits on the occasion of 20th anniversary of Nadra Group

- 1. Kaduchenko, Inna Fedorivna—Human Resources Manager.
- 2. Kolesnykova, Zhanna Ivanivna.
- 3. Kolisnichenko, Volodymyr Grygorovych—Head of Department of complex processing and interpretation of geological and geophysical information.
- 4. Kozlova, Galyna Yukhymivna—Financial Economist.
- 5. Kryvoruchko, Mykola Ivanovych—retiree, Chief of security for 13 years.
- 6. Liashok, Igor Oleksandrovych—Driver.
- 7. Lisnyi, Georgiy Dmytrovych—Senior Vice-Chairman of the Board for seismic exploration and geophysical survey

- 8. Lyutiy, Petro Mykhailovych—Adviser of Chairman of the Board.
- 9. Mershchii, Viktor Vasyliovych—Research Supervisor of the Center of processing geological and geophysical information.
- 10. Polunin, Oleksandr Igorovych—Head of department.
- 11. Renkas, Yurii Leonidovych—Director of Center for processing and interpretation of geological and geophysical information.
- 12. Simachenko, Mykhailo Vasyliovych—Chief Engineer-Geophysicist.
- 13. Solovyov, Igor Viacheslavovych—Chairman of the Board.
- 14. Zagorodnyuk, Vasyl Oleksiiovych—Chief Geologist of Department for complex interpretation of geological and geophysical information.



NADRA Geophysical Company, JSC

NADRA Geophysical Company, JSC was founded in 1998 for introduction of new technologies of seismic survey and other field geophysical investigations. Company became a pioneer in applying 3D seismic survey in Ukraine and at the moment is the leader in the industry of geological-geophysical exploration of sub-soil.

Since 2011, the Company was renamed as NADRA Geophysical Company, JSC (previous name Ukrnaftogazgeofizyka, JSC). "NADRA Geophysical Company", JSC is a leader of the local market

of geophysical services having all required equipment, highly skilled personnel and infrastructure to carry out field geophysical surveys in any environment conditions, ensuring the highest quality of the acquired field data and full compliance with international standards of OGP and IAGC.

The scope of works of NADRA Geophysical Company, JSC:

- 2D, 3D seismic survey;
- Borehole seismic and vertical seismic profiling (VSP);
- High-accuracy magnetic and gravimetric survey.





M.K. Kivshyk (1931–1999)— First Manager of geophysical expedition of Nadra Group

It is impossible to overstate the importance of personal contributions in the creation of NADRA Geophysical Company, JSC. The idea of bringing the three-dimensional seismology survey in Ukrainian geological practice was put forward by famous geophysicist, the talented manager of production and remarkable leader Kivshyk, Mykola Kuzmovych. His ideas were realized due to sincere support on the part of the administration of Nadra Concern, primarily Zagorodnyuk, Pavlo Oleksiiovych, Solovyov, Igor Viacheslavovych and Lisny, Georhiy Dmytrovych. Lyutiy, Petro Mykhailovych contributed much into the formation of the field teams of geophysicists.

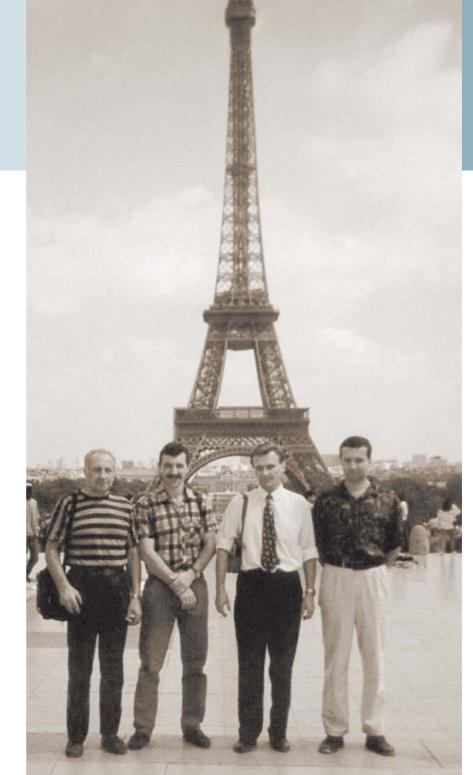
Kivshyk, Mykola Kuzmovych graduated from T.Shevchenko Kyiv State University in 1954, specialty—Geologist-geophysicist. In 1954–1979, Dr. M.Kivshyk worked as a Chief of Sverdlovsk geophysical field party and topogeophysical team, in Urals and Dnipropetrovsck geophysical expeditions. Then he was a Chief of Crimean geophysical field party, the Chief Geophysicist of Krymgeologia, Chief of Ukrgeofizrozvidka. Since 1979, Dr. M.Kivshyk is a Director General of Ukrgeofizyka. Since 1995, he held different offices in Nadra Group—Advisor of Production Department, Deputy Director on geophysics, Chairman of the Board.



P.M. Lyutiy adviser to Chairman of the Board of Nadra Group

yutiy, Petro Mykhailovych graduated from T.Shevchenko Kyiv State University in 1973, specialty—Geologist-hydrogeologist. He held the top positions at the State Special Design Institute of Ministry of Internal Affairs of the USSR and in different enterprises of NADRA Group as Director on mineral production, Vice-Chairman of the Board on administrative issues. Since 2011—Adviser to Chairman of the Board of Nadra Group.

Negotiations on purchase of seismic survey equipment, Paris 1996: M.K.Kivshyk, D.Zybin (CGG), I.V.Solovyov, G.D.Lisny



The history of the Company has begun on October 14, 1998 when the first in Ukraine geophysical complex of three-dimensional seismology survey purchased for Ukrnaftogazgeofizyka, JSC in Input/Output Company (USA) was presented. The representatives of the Ukrainian government, the leading specialists, the journalists of the specialized media watched 3D seismic survey with the aid of the purchased equipment in Lychkiv area.

The same year, the Supervisor Service was initiated in the Company allowing for the improvement of the geological efficacy of the surveys. Later on, the quality control system and express processing of the data in the course of field works was initiated. The required software was provided by the specialists of the Company.



Presentation of the first in Ukraine private geophysical complex consecrated by the Archpriest of Saint-Pokrovsky church in Podol Father Volodymyr and press-conference covering this event. October 14, 1998



Field camp of NADRA Geophysical Company, JSC



Seismic vibrators

The high quality of the field 3-D seismic survey performed in 2004–2005 and the following complex processing and interpretation of the whole geological and geophysical information available have been advantageous for the development of the detailed geological models of the fields with prognosis of filtration capacity parameters of oil-and-gas bearing horizons. The Company was the first in the geological and geophysical service to launch the manufacture of the multichannel telemetric seismic survey equipment and the heavy vibration sources of seismic waves providing for the increased reliability of the geological survey of oil-and-gas bearing capacity, in particular, at great depth.

For most employees, NADRA Geophysical Company became their home, and this is a prerequisite for the success of the Company and its stability.



T.F. Moroz— Chairman of the Board, NADRA Geophysical Company, JSC

Moroz, Taras Fedorovych graduated from T. Shevchenko Kyiv State University in 1981. In 1981–1983, Mr. T.Moroz worked at Ukrgeofizyka, seismic survey enterprises of as Assistant of operator, Operator, Party Chief.

In NADRA Geophysical Company, JSC Mr. T.Moroz started to work as a Chief of seismic expedition. Then he worked as a Chief of Production department, Chief Engineer (Vice Chairman of the Board), Chairman of the Board

Mr. T.Moroz was awarded golden and silver badges of "Ukrainian Association of Geologists", All-Ukrainian Public Organization, L.Lutuhin and V.Luchytskyi Medals.



V.M. Golub— Senior Vice-Chairman of the Board of NADRA Geophysical Company, JSC

Golub, Vasyl Mykolaivych was studied in Kyiv Geological Survey College (specialty—techniques for survey of mineral deposits).

Mr. V.Golub works for NADRA Geophysical Company since 1998. In 2009–2010—Chairman of the Board, since 2011—Senior Vice Chairman of the Board. His record of service in geology comprises 37 years.



V.V. Kryzhanovskyy— Chief Engineer

ryzhanovskyy, Vadym Volodymyrovych graduated from T.H. Shevchenko Kyiv State University (specialty—geophysical methods for survey and exploration of mineral deposits).

Mr. V.Kryzhanovskyy works for NADRA Geophysical Company since 1998. Until 2005 he was an Operator of seismic station INPUT/OUTPUT SYSTEM 2. Since 2006 Mr. V.Kryzhanovskyy is a Chief of Production Department, since 2008—Chief geophysicist, since 2011—Chief Engineer. His record of service in field seismic expedition is 13 years.



D.Ya. Ivanenko— Vice Chairman of the Board on HSE

vanenko, Dmytro Yaroslavovych graduated from T. Shevchenko Kyiv State University (specialty—geophysical methods for survey and exploration of mineral deposits).

Mr. D.Ivanenko worked for NADRA Geophysical Company in 1999–2002. Since 2008, he is again in the staff of the Company. He worked as Engineer Geophysicist and Vice Chairman of the Board on HSE.

He also has an experience as Engineer Geophysicist of the information computation center.



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B.B. Bashmanovskyi— Chief of HSE Department

Bashmanovskyi, Bronislav Boleslavovych graduated from Dnipropetrovsk Mining Institute (specialty—technique for survey of mineral deposits).

Since 1998 he works in Nadra Concern, JSC—Chief of HSE Department of Nadra Concern, JSC and Nadra Geophysical Company, JSC.

He is engaged in work safety for 24 years.



V.A. Ryumin— Chief Geophysicist

Ryumin, Viktor Anatoliiovych graduated from Mechanico-Mathematical Department of I.Mechnykov Odesa State University, specialty—mathematics.

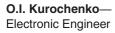
Since 2004, Mr. V.Ryumin works for "Geophysical Company Nadra", JSC and Nadra Data Processing Center, JSC. He is a Chief of Party for vertical seismic profiling and Deputy Chief of Department for complex processing and interpretation of geological-geophysical and field data. Since 2011—Chief Geophysicist of Nadra Geophysical Company, JSC.



B.M. Shariy— Chief of Seismic Expedition № 2

hariy, Borys Mykolaiovych works NADRA Geophysical Company since 1999 just after graduating from Taras Shevchenko Kyiv National University. He worked as Engineer, Operator geophysicist, and Chief of Seismic party. Since 2008, he is a Chief of Seismic expedition № 2.







P.Yu. Reznik— Chief of Seismic Party

Kurochenko, Oleksandr Ivanovych has 24-year service record as Engineer, Operator Geophysicist, Electronic Engineer working in NADRA Geophysical Company since 1998.

Reznik, Petro Yuriiovych has 30-year service record in the field of geologic survey. His career progressed from Worker to Chief of Seismic party in NADRA Geophysical Company since 1998.



Team of field party № 2 NADRA Geophysical Company near the caravans





Employees of gravimagnetic party with high-frequency gravimeter CG-5 AvtoGrav (Canada)



Field works in the course of complex 3D seismic and gravimetric survey



Field geophysical survey in various landscapes and ecologically sensitive areas









Realization of 2D seismic exploration project for Shell Company in Ukraine



The list of employees of NADRA Geophysical Company, JSC awarded the Medal of Merits on the occasion of 20th anniversary of Nadra Group

- 1. Bashmanovskyi, Bronislav Boleslavovych—Chief of Department
- 2. Briukhovetskyi, Igor Oleksandrovych—Chief of Party
- 3. Chebanu Valerii Viktorovych—Electronic Engineer
- 4. Durytskyi, Andrii Anatoliiovych—Operator Geophysicist
- 5. Golub, Vasyl Mykolaiovych—Chaiman of the Board
- 6. Katsimon, Anatolii Ivanovych—Driver
- 7. Khrystiuk, Ivan Mykhailovych—chief of logistic department
- 8. Kotsur, Borys Anatoliiovych—Operator Geophysicist
- 9. Kryzhanovskyy, Vadym Volodymyrovych—Chief Geophysician
- 10. Kurochenko, Oleksanfr Ivanovych—Electronic Engineer
- 11. Lavryk, Ivan Mykhailovych—Driver
- 12. Litvinov, Yurii Volodymyrovych—Chief of Geodesic Team
- 13. Matsola, Oleksandr Ivanovych—Engine Operator
- 14. Moroz, Taras Fedorovych—Chairman of the Board

- 15. Nyzhnyk, Viktor Pavlovych—Electronic Engineer
- 16. Otroshenko, Mykola Fedorovych—Chief of Geodesic Party
- 17. Peshkov, Petro Anatoliiovych—Administration and Economy Vice Chairman of the Board
- 18. Petryk, Vladyslav Petrovych—Engine Operator
- 19. Pomin, Valentyna Mykhailivna—Deputy Chief Accoutant
- 20. Pozyvailo, Valerii Petrovych—Driver
- 21. Rakhmaniuk, Dmytro Oleksandrovych—Engine Operator
- 22. Reznik, Petro Yuriiovych—Chief of Seismic Party
- 23. Romaniuk, Valerii Viktorovych—Chief of Seismic Party
- 24. Ryumin, Viktor Anatoliiovych—Chief Geophysicist
- 25. Shariy, Borys Mykolaiovych—Chief of Expedition № 2
- 26. Syvolodskyi, Anatolii Mykolaiovych—Chief of Department
- 27. Vitriak, Vasyl Petrovych—Chief of Geodesic Team

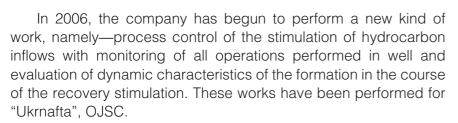


NADRA Logging Company, JSC

NADRA Logging Company, JSC (formerly known as "Ukrpromgeofizyka", JSC) has been established in 1999 with purpose to implement the new technologies of the oil and gas, methane and coal wells geophysical research in the field of geological exploration. Due to the application of the state-of-the-art technologies and equipment, produced by known manufacturers of international level, the Company became the leading performer in well logging survey of oil and gas wells in Ukraine. "NADRA Logging Company", JSC has unique technologies for Ukraine and offers to its custo-

mers the performance of the full range of well logging and wireline services, processing and interpretation of obtained geological and geophysical information.

NADRA Logging Company, JSC is the only performer of specialized and innovative well investigations in Ukraine: inclinometry, multi-probe and compensated acoustic logging, neutron logging. The Company performs works in directional and horizontal wells. This allowed company to become the exclusive service of works related well logging on the Black sea and Azov sea shelves.



Well logging crew performs the borehole geophysical survey



NADRA Logging Company, JSC is the single Ukrainian company having a full set of tools for well casing inspection produced by Sondex (Great Britain) and currently used also by leading world service companies (Halliburton, Schlumberger, Weatherford, etc.).

Visit of experts of the NADRA Group to the office of SONDEX Company—world leading manufacturer of equipment for inspection of well technical condition.

Great Britain, 2005



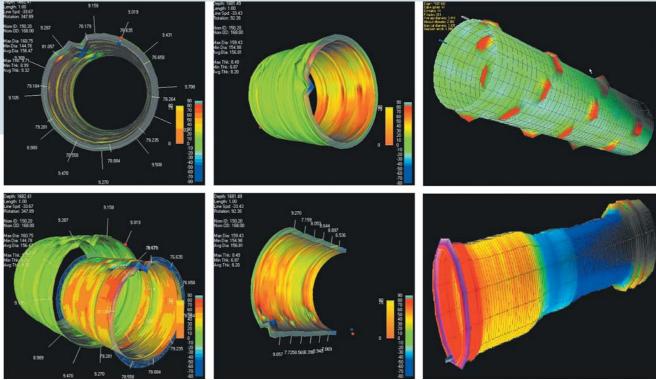


Digital registration of well logging data in production oil well



Integrated well logging crew in move to the well site





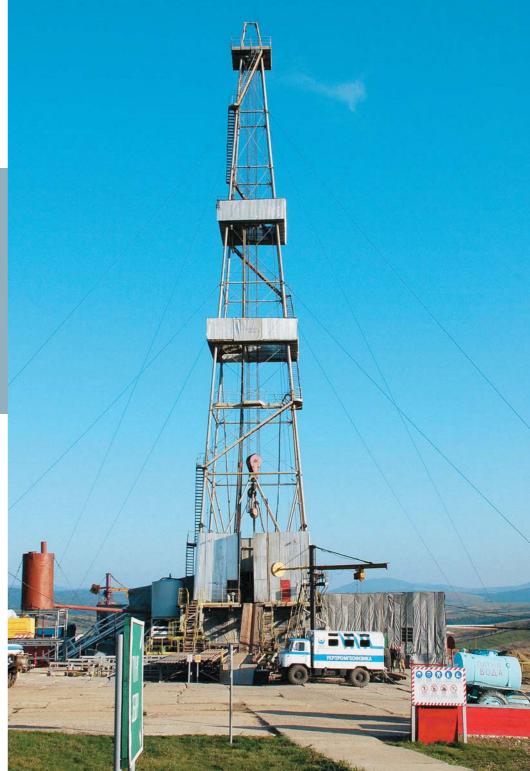
Examples of identification of defects and damages of casing and tubing strings



Presentation of new technologies, designed by Halliburton, the partner of the NADRA Group

Performing of new and specialized methods of survey became possible only due to high professionalism of the NADRA Logging Company staff.

Performance (jointly with Shlumberger) of survey of the deep directional well in Carpathian Mountains





V.G. Stelmakh— Chairman of the Board of NADRA Logging Company, JSC

Stelmakh, Valery Grygorovych, had graduated from Artem Dnipropetrovsk Mining Institute in 1991. Since 1991 till 2000 he was working in "Balakliiapromgeophizyka", State geophysics enterprise. Since 2000 Mr. Stelmakh, Valery Gryhorovych has been working in the NADRA Group. Firstly he was working in the capacity of Chief Engineer of "Ukrpromgeofizyka", JSC, and since 2003—as Chairman of the Board. During this period Stelmakh, Valery Grygorovych made a great contribution to the establishment and development of the Company. Two new production departments were created—the Crimean Industrial and Geophysical Field Party and the Geological and Operations Well Survey Party. He was awarded the Class 2 For Merit Medal, of "Ukrainian Association of Geologists", All-Ukrainian public organization; the L.Lutuhin Medal; V.Luchytskyi Medal.



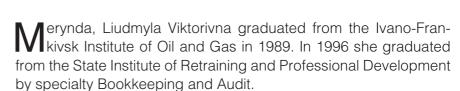
G.O. Kashuba, Cand. Sci. (geology)— Chief Geologist of NADRA Logging Company, JSC

Kashuba, Grygoriy Oleksiyovych has been employed with "NADRA Logging Company", JSC in 2001 in capacity of the Chief Geologist, which office he actually holds. In 2004 he earned the grade of Cand. Sci. in Geology.

Since 2002 he acts as the Expert of State Commission of Ukraine on Mineral Resources. Kashuba, Grygoriy Oleksiyovych has under his belt the direct participation in discovery of more than 10 oil and gas accumulations and new deposits of hydrocarbons at the already known minefields. He is the author and co-author of more than 25 printed publications in field of geological science. Was awarded with the golden badge of the "Ukrainian Association of Geologists", All-Ukrainian public organization and with Medal for Merit, Class 2 of "Association of Ukrainian Geologists", All-Ukrainian public organization and the Honorable Explorer Medal.



L.V. Merynda— Leading Economist



Since 2002 Mrs. Merynda, Liudmyla Viktorivna is employed with NADRA Logging Company, JSC as Economist, and since 2007—as Leading Economist.



V.O. Sencha— Chief of the Shebelynka Well Logging Field Party

Sencha, Volodymyr Oleksiyovych is working at Shebelynka crew of NADRA Logging Company, JSC since 2001 as Chief of the single for that moment integrated logging team. His high professionalism and constant professional development were the factors, due to which in 2007 Mr. Sencha, Volodymyr Oleksiyovych became the Head of Shebelynka party, numbering at that time 12 integrated logging teams.

He took part in discovery of more than 15 deposits of hydrocarbons (Yuliivske, Ulianivske, Korobochkinske, Pivnichno-Korobochkinske etc.).



In the center of Figure Mr. M.M. Pilatov—Chief of Crimean Well Logging Field Party

Pilatov, Mykhailo Mykhailovych, after his graduation from the Institute in 1972, started his career in industrial and geophysical field in "Krymmorgeologiya" Trust. Since then till now, he is keeping up the allegiance to his vocation during 40 years.

During this time he raised from geophysicist of industrial geophysical party, through the Senior geophysicist and the Chief of the logging team to the party Chief. For almost 15 years, till 2007, he had been heading the industrial geophysical party in Crimea. Then he worked as the Chief of well logging crew at "Ukrpromgeofizyka", JSC. Actually he works as Chief of the Crimean Well Logging Party of NADRA Geophysical Company, JSC. For the first time in Ukraine the deviated and horizontal well maintenance in marine environment was introduced. For the first time in Ukraine he introduced and worked out the horizontal well perforation technology.





D.A. Khomiak—Chief of Integrated LoggingCrew of Shebelynka Party

V.I. Pylenko— Deputy Chief of Shebelynka Party

Pylenko, Volodymyr Ivanovych, in 2002 was employed with NADRA Logging Company, JSC as Section Foreman for the work in the North of Russia.

Since 2007 he is the Deputy Chief of Shebelynka crew. Mr. Pylenko, Volodymyr Ivanovych is highly experienced specialist who took part in discovery of more than 20 deposits of hydrocarbons (Sakhalin, Vyshnivske, Druzheliubivske deposits etc.).

Since 2001 Khomiak, Dmytro Andriyovych has been working as Chief of the integrated logging crew of Shebelynka party at the NADRA Logging Company, JSC and successfully introduces into production the new equipment for supervision of technical state of wells.

Mr. Khomyak, Dmytro Andriyovych took part in discovery of more than 10 deposits of hydrocarbons (Ulianivske, Pivnichno-Korobochkinske, Pivnichno-Volvenkivske, Krutohorivske etc.).







S.O. Strelnikov— Radio Engineer



M.O. Yankevych— Chief of Geological Department of Shebelynka integrated logging crew

Strelnikov, Sergiy Oleksandrovych has been employed in Shebelynka industrial and geophysical field party (IGFP) of NADRA Logging Company, JSC in 2007. He is Radio Engineer by his qualification. He obtained the Master's Diploma of Kharkiv State Technical University of Radio Electronics.

Ovdiyenko, Sergii Vasyliovych right after his graduation from the Ivano-Frankivsk National Technical University of Oil and Gas in 2007 was employed with the NADRA Logging Company, JSC. In the next, 2008, he was appointed the Chief of the integrated logging crew, which performed the well geophysical survey in the most of ultradeep wells maintained by the Company.

Yankevych, Maksym Oleksandrovych is one of the youngest experts of the Company. He started his career in Shebelynka IGFP of NADRA Logging Company, JSC as Engineer Geophysicist in 2009 after his graduation from Ivano-Frankivsk National Technical University of Oil and Gas. During two years of his work in the Company he proved himself to be the well-experienced specialist in the field of survey of technical state of the closed well, and it was the weighty argument for the appointment of Yankevych, Maksym Oleksandrovych to the position of the Chief of Geological department of Shebelynka integrated logging crew in 2011.



L.B. Petrova—
Geophysicist of Geological department

Petrova, Lyudmyla Borysivna was employed with NADRA Logging Company, JSC as Leading Geophysicist of Geological department since 2007. During the years of her service, the group, preparing the estimated parameters, headed by Petrova, Lyudmyla Borysivna, had successfully defended reports concerning many deposits in Dnipro-Donetsk depression and Donbas Northern outskirts: Bezliudivske, Lannivske, Lychkivske, Yuliivske, Lobachivske, Kysivske etc.



V.V. Protsenko—
Operator of the well logging truck
hoist of the Integrated Logging Crew
of Shebelynka Party

Protsenko, Valeriy Volodymyrovych is the master of his trade, the mandatory participant of the launch of new equipment in the production.



V.G. Stelmakh
is the kind of Managers
that can be rarely found
in his office room



Now it's time to introduce to you our veterans, those who has been working without cease in the united and friendly team of the NADRA Logging Company, JSC during ten years, actually since the very day of its foundation.

One of them is Mr. S.T.Zolotopup—Operator of the well logging truck hoist of the integrated logging crew, and Leading Geophysicists of Geological department of Shebelynka Party Messrs. V.V.Kulyk, S.S.Shkoda and Mrs. R.P.Rodina.



Mr. S.T. Zolotopup— Operator of the well logging truck hoist

Zolotopup, Sergiy Tymofiyovych had started his service at the Company as Operator of the well logging truck hoist in actually one and only for that time Integrated field party. For the years of his service he has acquired the reputation of diligent and responsible expert.



V.V. Kulyk— Chief of the integrated logging crew



S.S. Shkoda— Chief of the Engineering team of Shebelynka Party

Kulyk, Volodymyr Vasyliovych worked for The Geologivcal Survey of Ukraine since 1979. He started his work for Nadra Logging Company, JSC in 2001. Until now he is a head of the integrated logging crew of perforating-explosive operations.

Shkoda, Serhii Semenovych has been heading the engineering team of Shebelynka Party and was the one, who directly founded it.

Mr. Shkoda, Sergiy Semenovych took part in discovery of more than 25 deposits of hydrocarbons (Sakhalin, Bahatoyske, Maksalske, Borysivske, Subbotinske etc.), including the Black Sea Shelf deposit.



R.P. Rodina— Mining Engineer-Geophysicist

Podina, Raisa Petrivna—the Mining Engineer-Geophysicist is the professional mining engineer-geophysicist. During the years of her service she took part in discovery of many deposits in Dnipro-Donetsk depression and Donbas Northern outskirts: Ostroverkhivske, Yuliivske, Krasnopilske, Borysivske, Kremenivske, Maksalske, Vasyshchivske, Zaitsivske, Aksiutinske, Denysivske, Bezliudivske, etc.



Thanks to these people and to all powerful, responsible and creative in the performing of the assigned tasks professional team of NADRA Logging Company, JSC, we are now justified in telling, that the success we had achieved, is not the last!

The experts of the Company will for now forward do it to the utmost of their power to reinforce the authority of NADRA Group among the companies operating in the field of industrial geophysics in Ukraine and abroad.

Each member of the team of our Company, which represents the safe partner, having the powerful experimental and production facilities, is keenly interested in successful performance of tasks.



The list of employees of NADRA Logging Company, JSC awarded the Medal of Merits on the occasion of 20th anniversary of Nadra Group

- 1. Gudenko, Galyna Ivanivna—Assistant Geophysicist
- 2. Kashuba, Gryhoriy Oleksiyovych—Chief Geologist
- 3. Khomiak, Dmytro Andriyovych—Chief of Team
- 4. Kolesnyk, Olha Oleksiivna—Assistant Geophysicist
- 5. Kulyk, Volodymyr Vasyliovych—Geophysicist
- 6. Merynda, Liudmyla Viktorivna—Leading Economist
- 7. Perepelytsia, Valeriy Mykolayovych—Operator
- 8. Pilatov, Mykhailo Mykhailovych—Chief of CIGFP
- 9. Protsenko, Valeriy Volodymyrovych—Operator
- 10. Rodina, Raisa Petrivna—Leading Geophysicist
- 11. Sencha, Volodymyr Oleksiyovych—Chief of SIGFP
- 12. Shkoda, Sergiy Semenovych—Leading Geophysicist
- 13. Stelmakh, Valeriy Gryhorovych—Chairman of the Board
- 14. Sytnyk, Valeriy Vasyliovych—Well-Log Analyst
- 15. Usyk, Sergiy Mykolayovych—Well-Log Analyst
- 16. Volynska, Tamara Kostiantynivna—Geophysicist
- 17. Zagorodnyuk, Nelia Anatoliivna—Accountant
- 18. Zolotopup, Sergiy Tymofiyovych—Operator

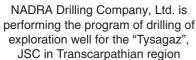


NADRA Drilling Company, Ltd

"NADRA Drilling Company" JSC was founded in 2001 with purpose to introduce the new technologies of drilling and well-workover services, and well production stimulation. At present NADRA Drilling Company Ltd. (a legal successor of the above mentioned company)

is in course of acquisition of drilling rigs and equipment from leading foreign manufacturers. This acquisition will allow the company to carry out a full range of well drilling for oil and both natural and unconventional gas (CBM, shale gas, tight gas) as well as well-workover operations.





Scope of Work, performed by NADRA Drilling Company, Ltd.:

- Draw up of well drilling programs
- Drilling of vertical wells
- Drilling of directional and horizontal wells
- Well casing with telescopic pipes
- Casing cementing
- Support services in drilling of vertical and horizontal wells



Drilling equipment, manufactured by DISCOVERY DRILLING EQUIPMENT LTD on order of NADRA Drilling Company Ltd for projects performance in Ukraine

- Well operations monitoring and in-process management
- Support services in well-workover operations
- Support services during preparation work for formation hydraulic fracturing
- Formation hydraulic fracturing
- Drill stem tests and well development
- Design of new technologies of well drilling and development.



B.I. Lelyk— General Director of NADRA Drilling Company, Ltd, Cand. Sci (Geology and Mineralogy)

elyk, Bogdan Ivanovych graduated from Geological Department of the Ivan Franko L'viv State University.

He had worked as Senior Geotechnician, Senior Geologist at Velykomostivska Geological Exploration Party (GEP), Chief of the Geological Department, Chief Geologist of the Geophysical Exploration Expedition (GEE) of "Zakhidukrgeologiia", State Geological Enterprise (SGE). Since 2000 he had worked as the First Deputy Director of the Center of Alternative Fuels at the Ministry of Coal Industry of Ukraine and National Academy of Sciences of Ukraine.

Since 2007 he is working in NADRA Group as Director of New Projects Department. In 2011 he took charge of the "NADRA Drilling Company", Ltd.

The special achievement of Mr. Lelyk, Bogdan Ivanovych is the development of new technologies of production of the coalbed methane. In 2008 the new technology of "Preliminary Coal-Bed Methane Drainage" was developed and patented. First of all this technology is oriented to the gas drainage from the coal deposits of Donbas and L'viv-Volyn coal basin. The technology of Preliminary coal-bed methane drainage, developed by Mr. Lelyk, Bohdan Ivanovych for "NADRA Concern", JSC, won in "TOP-Energy Efficiency" the Second All Ukrainian Competition (2009).

In 2011, at the Conference "Evaluation, Production and Use of Non-Traditional Gas—Investment Attraction", held in Donetsk city, the new technology "Method of Associated Gas Drainage in Operating Mines" was presented.



NADRA Geophysical Equipment, JSC

NADRA Geophysical Equipment, JSC (formerly known as "Kyiv plant "Geofizprylad", JSC) is the main production facilities of geophysical equipment manufacturing in our country and in former USSR for more than 60 years. Thousands of instruments per year, delivery into dozens of countries of the world, test specimens of developed new products—all this is the evidence of the immensity and mobility of production, of high quality and high technical level of products.

The date of foundation of the plant "Geofizprylad" is May 1945, when, on order of People's Commissariat for Oil Industry of USSR, the Ukrainian branch of the "Geofizyka" plant was established. The first Director of the plant was H.S. Zhebko, who was holding this position during 30 years.

In February 13, 1951 the branch became an independent company, named the "Kyiv Instrument-Engineering Plant".







Products, manufactured in previous years by NADRA Geophysical Equipment, JSC

Since 1976 till 1995 the plant had been headed by Mr. V.V.Geichenko, appointed to the post of its Director. During the 70's–80's of the last century more than 80 % of the downhole logging tools, used by geophysical companies of Soviet Union for survey and exploration of oil and gas, was manufactured at the "Kyiv plant "Geofizprylad", JSC.





Since 1988 the plant is directly subordinated to the Ministry of Geology of Ukraine.

Starting from 1996 the plant operates within the structure of NADRA Group.

In 2005 the first stage of the complex technical re-equipment of the plant had been completed. The new equipment designing and development of technologies of its manufacturing are performed according to the international standards. Adopted and introduced into production are hardware-software complexes of 3D modeling and production engineering, produced by company PTC (Pro/ENGINEER i WihoFIRE 3.0).

In 2011 the "Kyiv Plant "Geofizprylad", OJSC was renamed to the NADRA Geophysical Equipment, Joint Stock Company.

Today NADRA Geophysical Equipment, JSC is a unique technologically closed production cycle of geophysical equipment and downhole tools, consisting of 6 laboratories of geophysical methods and design offices of mechanics and electronics, metalworking production (departments of: turning and milling works, hardening and thermal treating of metal, electroplating, punching, pressure moulding, special processes, etc.), assembly workshop with testing laboratory and testing wells, metrological centre and accredited certification laboratory and service centre.



V.V. Karmazenko— Chairman of the Board of NADRA Geophysical Equipment, JSC

Armazenko, Volodymyr Viacheslavovych graduated from the Kyiv Geological Prospection Technical School and Taras Shevchenko Kyiv State University. He worked in Poltava expedition for geophysical logging of wells as Engineer Geophysicist of Geological team.

He participated as Senior Geologist during his service in "Balakliiapromgeophizyka", State geophysical enterprise in discovery of Hashynivske oil deposit in basement rock, and of the new productive formations of Borysivske gas-condensate field and Kyrychivske oil-gas field.

Since 2000 Mr. Karmazenko, Volodymyr Viacheslavovych has been working in the NADRA Group, starting as Chairman of the Board of the "Ukrpromgeofizyka", JSC, and in 2003 he was appointed as Chairman of the Board of the "Kyiv Plant "Geofizprylad", JSC.

Mr. Karmazenko, Volodymyr Viacheslavovych was honored with the title of the Honorable Explorer, decorated with the 100 years Anniversary of S. Komarov Medal, issued by International Association of Research, Development and Business Cooperation in Geophysical Research and Works in Wells, and with L.Lutuhin Medal.



V.I. Rybak— Senior Vice-Chairman of the Board, and Chief Engineer of NADRA Geophysical Equipment, JSC

Mr. Rybak, Volodymyr Ivanovych since 2004 has been holding the positions of the Senior Vice-Chairman of the Board and Chief Engineer of NADRA Geophysical Equipment, JSC. He is responsible for the manufacturing optimization, the conversion of manufacturing process to the new technologies with installation of new industrial machines and equipment, and modernization of the old industrial machines with digital program control with passage to the new types of electronic engineering. He has two patented inventions.

He manages the works utilities supplying the production with required materials and services timely and in full.



O.M. Kryvonos—
Vice-Chairman of the Board
of NADRA Geophysical Equipment, JSC,
responsible for manufacturing

Mr. Kryvonos, Oleksandr Mykolayovych is working at NADRA Geophysical Equipment, JSC since 2005. He started as Manager of manufacturing support, thus allowing him to carry out the reorganization of design and production engineering utilities. He was the one of initiators of the total structural reorganization of manufacturing departments, stipulating the optimization of available manufacturing chains, manufacturing processes and used materials.

Mr. Kryvonos, Oleksandr Mykolaiovych had founded at the works the internal school of the own comprehensive development of the modern geophysical equipment. Since 2007, being already the Vice-Chairman of the Board responsible for manufacturing, he continued the improvement of the enterprise. Being the supervisor of the most part of the new equipment development projects, he manages and directly participates in development of the new modern digital logging equipment for electrical and radioactive well logging, inclinometers, calipers and borehole geometry tools, as well as geological and technical research stations.





O.S. Maslyuk—
Vice-Chairman of the Board
of NADRA Geophysical Equipment, JSC,
responsible for development of new products

r. Maslyuk, Oleksandr Stepanovych worked his way since 2004 from the Deputy Chief Designer to the Vice-Chairman of the Board, responsible for development of new products.

The stages of his career are the following: the third category Design Engineer, the first category Design Engineer, the Chief of circuit plates sector. He created the division of computer-aided design and production of the circuit plates.

Actually Mr. Maslyuk, Oleksandr Stepanovych works on development and implementation into manufacturing of the new up-to-date geophysical equipment. The numerous design and technology innovations had been introduced in production under his direction.



Koroteieva, Vira Volodymyrivna— Executive Coordinator of designing works of geophysical equipment's components

Over a period of its activity, the company has developed and organized industrial production of more than 200 types of downhole geophysical tools, the most known among which are the following: high pressure-temperature resistant tools for extra deep wells, type AGAT, AKV-1—wave sonic log, EK-1 and AIK-5M—electric and induction logs, SKPD-3—caliper , SRK—radioactivity log and also KURA-2M—for ore well logs and many others, including unique ones.

Tools produced by plant have been used in the course of the exploration of extra deep Kola well.



Zadorozhnyi, Sergiy— Engineer, testing the telemetry system of well geophysical equipment



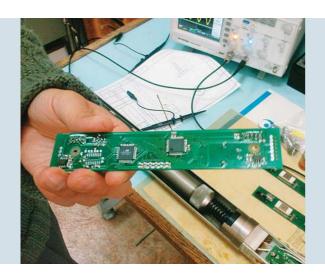
Glubokov, Anatoliy Oleksandrovych— Leading Expert in tool designing for radioactive logging, working on multi-probe neutron log tool

The company co-operates with leading international scientific and designing centres involved in geophysical equipment industry. Such cooperation resulted in production of new and unique geophysical tools, among which 16-probe sonic tool, 6-arms dipmeter, micro lateral and multi-probe induction logs, 4-probe neutron log, etc.

Among new technologies for oil and gas wells logging we can mark out the following: AMAK-2 equipment, 4-NNK multi-probe neutron log, and NP-6 hardware-software complex for dipmeter survey.



The metal processing shop is reequipped with CNC metal-processing machines of the HAAS Company (USA) allowing manufacturing of the European level products.





Electronics of the downhole tools on the basis of microprocessors

"Kashtan" Geological-and-technological logging station

Among other engineering design of the company—drill-stem testers for deep and super-deep wells with opportunity to flush a well in the course of round trip, multicyclic investigations and sampling of formation fluids with keeping up of formation conditions. The company produces high-accuracy memory thermometers-manometers operating under temperature up to 150°C and with a device conveying/evacuate tool to/from the bottom hole. The company produces software controlled tools strings for open hole geophysical at temperatures up to 150°C and pressure up to 150 MPa.



Technological sensors of geological-and -technological stations





V.V. Karmazenko presenting in the workshop the production program of open hole modular logging strings for geophysical survey of oil and gas wells, 2006

V.I. Rybak, Chief Engineer of the plant, demonstrating modular logging strings, manufactured for the potential customers, 2011





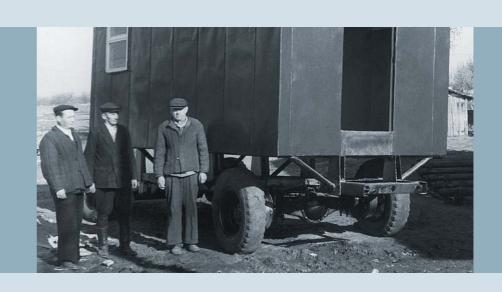
Testing (2007) and well (2008) testing of logging string



The list of employees of NADRA Geophysical Equipment, JSC awarded the Medal of Merits on the occasion of 20th anniversary of Nadra Group

- 1. Ananieva, Iryna Mykolaivna—Metrology Engineer.
- 2. Andrianov, Volodymyr Yuriyovych—Metal worker.
- 3. Bartosh, Mykola Maksymovych—Manufacturing Manager.
- 4. Burlak, Oleksandr Volodymyrovych—Setup Engineer.
- 5. Fedorenko, Viktor Fedorovych—Chief of Testing Department
- 6. Filon, Ivan Petrovych—Radioassembler
- 7. Gryshchenko, Ruslan Fedorovych—Turner.
- 8. Ishchenko, Fedir Oleksandrovych—Spotter.
- 9. Karmazenko, Volodymyr Viacheslavovych—President of the Board.
- 10. Korotyeva, Vira Volodymyrivna—Coordinator of the area of works.
- 11. Kryvonos, Oleksandr Mykolaiovych—Vice President of the Board, responsible for production
- 12. Kushnir, Anatolii Hryhorovych—Veteran-retiree, Chief Designer.
- 13. Kutsykh, Volodymyr Vasyliovych—Assembly works Locksmith.
- 14. Lebed, Mykola Mykolaiovych—Leading Design Engineer.
- 15. Leshchenko, Liudmyla Hryhorivna—Leading Design Engineer.
- 16. Levoshko, Tetiana Fedorivna—Reeler Operator.
- 17. Lukashenia, Olena Viktorivna—Stockkeeper.
- 18. Lupych, Anatolii Hryhorovych—Machine-Shop Manager.
- 19. Matata, Mykola Mefodiiovych—Locksmith.

- 20. Metlynska, Olena Petrivna—Veteran-retiree, the Chief of planning office.
- 21. Moroziuk, Tetiana Vasylivna—Reeler Operator.
- 22. Motsak, Mykola Mykhailovych—Grinder.
- 23. Pedenko, Ihor Borysovych—Electronics Adjuster.
- 24. Prysiazhniuk, Vasyl Yakovych—Boiler Room Chief Operator.
- 25. Pshtyka, Mykola Dmytrovych—Chief of Provision and Sales Department.
- 26. Ramkovych, Oleksandr Vasyliovych—Assembly works Locksmith.
- 27. Roberman, Yakiv Mykhailovych—Milling Machine Operator.
- 28. Rybak, Volodymyr Ivanovych—Chief Engineer, Vice President of the Board.
- 29. Seliuchenko, Dmytro Volodymyrovych—Chief Designer.
- 30. Siedov, Yurii Andriiovych—Adjuster.
- 31. Skarlat, Oleksandr Arturovych—Heat-Treater.
- 32. Skrypnyk, Volodymyr Oleksiiovych—Adjuster.
- 33. Vasylchenko, Nina Fedotivna—Chemical Engineer
- 34. Yastremskyi, Oleksandr Eduardovych—Electric Welder.
- 35. Zadorozhnyi, Sergiy Mykhailovych—Design Engineer.
- 36. Zinchenko, Volodymyr Ivanovych—Machine-Shop Manager.



NADRA Exploration Equipment, JSC

NADRA Exploration Equipment, JSC (previous name Geotechnika, JSC) specializes in manufacturing of geological exploration equipment, drilling tools and spare parts for oil and gas industry, as well as mobile dwellings of various sizes and modifications, modular facilities.

The first production of Romny geotechnical engineering and especially central repair shops for oil and gas equipment launched in Romny city in 1936, was caused by great geological discovery that led to the development of oil production industry in the Eastern oil and gas province of Ukraine. Indeed extraction of the first and single oil at Romny salt dome in the former Soviet Ukraine

demanded manufacturing of specialized equipment. During the Second World War the enterprise was virtually destroyed and immediately after the war they began to restore shop premises, the process of reconstruction lasted from 1945 till 1950. Substantial technical upgrading and expansion of production capacity took place in 1978. Since 1997 production volumes have been permanently increasing, range of products have been expanding without changing the basic direction of production.

In 2001 the works was renamed into "Geotechnika", Joint Stock Company and since 2011 it has been known as NADRA Exploration Equipment, JSC.



Main building of the plant, the sixties

The professional staff is gathered at NADRA Exploration Equipment, JSC.



L.I. Chaus— Chairman of the Board of NADRA Exploration Equipment, JSC

Chaus, Leonid Ivanovych studied at the Agricultural Technical School in Romny city.

Then he graduated from Kharkiv Institute of Mechanization and Electrification and acquired qualification of a mechanical engineer.

Before taking up the work at NADRA Group he had been working as a chief engineer at Romny oil delivery terminal. Since 2002 p. he has been in the capacity of the Chairman of the Board at "Geotechnika", JSC.



A.A. Shchogolev— Chief Engineer



Y.B. Stebko— Head of Marketing Department





O.V. Shtuchna— Chief Accountant

T.V. Partola— Deputy Chief Accountant



A.M. Derevianko devoted most of his life to the work at the enterprise starting his working carrier as a second class fitter in October 1950, in 1980 he was appointed as the Head of the mechanical repair section and in 1986 he terminated his labor activity and now he is retired



A.I. Sydorenko—is a long-service employee and has been working since 1972 when the factory was called as the "Central mechanical repair shops"



Fabrication of mobile dwelling units for field seismic survey crew of NADRA Group



Pre-production of cement valves of TsKOD type



Oil-well equipment for core samples of KTSR type



Interior of catering kitchen produced for NADRA Geophysical Company, JSC.



The list of employees of NADRA Exploration Equipment, JSC awarded the Medal of Merits on the occasion of 20th anniversary of Nadra Group

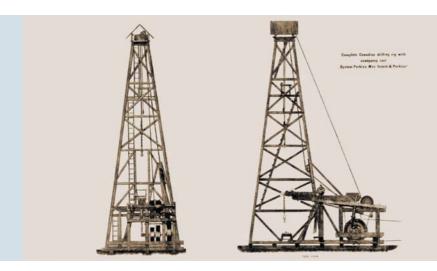
- 1. Chubenko, Mykola Ivanovych—Driver.
- 2. Derevianko, Anatolii Mykhailovych—Head of the mechanical repair section.
- 3. Maistrenko, Pavlo Mykolaiovych—6th class Turner.
- 4. Maliuha, Kateryna Mykolaivna—Store Keeper.
- 5. Moroz, Ivan Pavlovych—5th class Mill Operator.
- 6. Partola, Tetiana Valentynivna—Accountant.
- 7. Shtuchna, Olena Vitaliivna—Chief Accountant.
- 8. Sydorenko, Andrii Ivanovych—Deputy Head of Shop №1 work experience exceeds 30 years:
- 9. Yaremenko, Oleksii Petrovych—Head of Shop №1.



Discovery Drilling Equipment Ltd.

Discovery Drilling Equipment Ltd. is a company involved into development and manufacturing of drilling equipment. Production of the company in Ukraine is organized on the basis of production capacity of Stryi plant, wherein manufacturing of update drilling equipment is arranged of Discovery Drilling Equipment (Great Britain).

1885—is the year when the first production of Stryi plant was launched by Perkinson and Mac`intosh, the citizens of Great Britain for manufacturing of drilling equipment in Galicia, one of the main petroleum producing area in Europe and the world at that time.



The first drill derricks of Stryi plant

61 employees worked at the plant in 1946 and in 1979 the total area of the plant premises was 28 thousand square meters! Complete reconstruction of the plant took place in 1986 and the plant became the leading company of the Ministry of Geology of the USSR, manufacturing drilling rigs and equipment.

The plan underwent specific transformation in the middle of the 90's when it had already been in the structure of NADRA Group. The development of the plant was a result of permanent increasing demand for creation of powerful mineral-raw materials base in the country, provision of the geological exploration companies with

update equipment for drilling of extra deep oil and gas wells. Range of products manufactured by the plant was regularly updated, extended and included several dozens of items.

At that time new types of products, and technological processes were developed, increasing their performance results. In 1995 large scale of new products appeared and namely: hydraulic truck crane AKC-12,5 on chassis of URAL-5557, well work-over rigs AORS-60, driving front axles: 1,6, 3, and 5t, drilling dericks VB-53, chain 2AH-50,8, pulleys for crown block and crown block system.

In 2006 after business restructurisation Discovery Drilling Equipment, Ltd merged with NADRA Group asset and operates under its own trade mark.



One of drilling rigs with load capacity of 600 t produced by the company on order of Weatherford

The products of the plant have been exported not only in CIS countries, but also to Cuba and Pakistan, Republic of South Africa and Mozambique, Germany and Poland, Bulgaria and Ethiopia.

Currently Discovery Drilling Equipment is a company which scope of activities is development and manufacturing of well drilling rigs and equipment as well as equipment for oil-and-gas well workover operations. Basing on its own engineering development and involving international team of experienced staff and its own production facilities on the territory of Ukraine, the Company produces a wide range of skid-mounted and stationary drilling rigs in compliance with international standards.

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A.P. Zagorodnyuk— General Director of Discovery Drilling Equipment, Ltd (Ukraine)

Zagorodnyuk, Andriy Pavlovych received higher education at the Taras Shevchenko Kyiv National University. He also has international degree certificate after MBA program of Warwick University, Great Britain.

Mr. Zagorodnyuk, Andriy Pavlovych has a work experience in oil and gas industry, especially holding leading positions (Vice-Chairman of the Board responsible for development at Nadra Group, JSC).

Mr. Zagorodnyuk, Andriy Pavlovych worked in capacity of the Chairman of the Supervisory Board of Ukrainian and British Joint Venture "Integrated Network Solutions" (a main contractor of MTS mobile phone operator for installation of basic stations and fabrication of steel towers for them), Chairman of the Supervisory Board of Zhezhelivskii kaolin, JSC (was responsible for activity, company development and its further sale to WBB, British Corporation), provided consulting services for west oil companies (such as Shell Energy (Great Britain), NUI (USA) and others as for the building of their business in Ukraine.

Since 2007 till now Zagorodnyuk, Andriy Pavlovych has been General Director of Discovery Drilling Equipment, Ltd.



M.I. Kvasha
is the manager of business development
in Russia and CIS countries

Vasha, Mykhailo Ivanovych graduated from the Geology Department at Kyiv National University in 1996 and acquired qualification of a Geologist—Geochemist

Immediately after graduating from educational institution till the present moment he has been working at NADRA Group.

Now he works in the capacity of the Business Development Manager in Russia and CIS countries of Discovery Drilling Equipment, Ltd.



At Moscow Oil and Gas Exhibition, 2009



B.P. Garbuzyuk—Deputy General Director,O.A. Salnikov—Business Development Manager

Garbuzyuk, Borys Petrovych had been working for 12 years in different positions at the E.O. Paton Electric Welding Institute immediately after graduating from Machine Building and Mechanical Engineering department of Kyiv Polytechnic Institute in 1982.

He started his labor activity at NADRA Group in 1995. Since 1999 he has been a member of the Board of directors, as Production Director.

He was in charge of the work involved in management process of the manufacturing plants that were under control of NADRA Group. Since 2005 he had been the Chairman of the Supervisory Boards at "Kyiv plant "Geofizprylad", JSC, Stryi plant and Romny plant "Geotechnika".

New management of the Company keeps company traditions; take care with respect long-service employees, representing workers of different professions.















Skoryi, Volodymyr Oleksandrovych works as a 5th class turner, his period of service is 32 years Dakhnii, Ihor Mykolayovych was taken on in the position of designing engineer in the technical department at Stryi plant from 1965 and since 2006 he has been working as an engineering technologist of II category, his period of service at the plant is 46 years. Baran, Vasyl Pankovych is a 3rd class internal plumber hired at Stryi plant in 1972. His period of service at the plant is 42 years. Nakonechnyi, Bohdan Onufriiovych hired at Stryi plant as a 2nd class Fitter on 28.09.1970, since 2009 he has been working as a Foreman in the Workshop №4 of steelwork fabrication, his period of service at the plant is 41 years. Bartkiv, Yurii Romanovych hired at Stryi plant as a Mill operator apprentice in the repair section on 04.10.1967; since 1999 he has been working as a plant engineer, his period of service at the works is 44 years. Blyskun,
Dmytro
Mykhailovych
hired at Stryi plant
as a Turner apprentice
in Machine workshop
No 3 on 04.05.1978;
since 2006 he has
been working as
a 5th class turner
engaged in boring
operations, his period
of service at the works
is 33 years.

Hyriak,
Bohdan
Pavlovych
hired at Stryi
plant as
a 3rd class Turner
apprentice in
Machine workshop No 3 on
21.05.1973; since
2006 he has been
working as
a 5th class
turner.



Tutkovsky Institute, Private higher educational institution

"Tutkovsky Institute", Private higher educational institution (in previous reorganizations it was Institute of Applied Geophysics, JSC, than Private higher educational institution "Nadra "Institute of professional development") for the purpose of education and professional development of NADRA Group employees as well as for providing of educational services to specialists of oil-and-gas exploration and production industry in Ukraine. Not less important tasks of the Institute are assistance in adapting of the Ukrainian specialists

to the new economic conditions and promotion of the advanced achievements of domestic and world-wide geological science. The Institute was renamed in 2008 in honour of 150th anniversary of the birth of world-known scientist-geologist, one of founders of the Ukrainian Academy of Sciences—academician Pavlo Apolonovych Tutkovsky.

The Institute has the license of the Ministry of Education and Science of Ukraine for educational activity in the field of "Geology" (2005) and "Mining geology" (2007).



Due to persistent work of P.O. Zagorodnyuk, Chairman of the Institute with the support of P.F. Gozhyk, Academician, Director of the Institute of Geological Sciences of NAS of Ukraine, S.B. Shekhunova, Doctor of Geological Science as well as cooperation with the employees and specialists of other scientific institutions of NAS of Ukraine, sectored research Institutes and educational institutions of the Ministry of Education and Science of Ukraine the Institute has accumulated sufficient practical experience of advanced training of the specialists in geological field.

Currently more than 900 students from 90 geological exploration and production companies of Ukraine took part in the programs of the Tutkovsky Institute.

Gozhyk, Petro Feodosiiovych, Academician, Director of the Institute of Geological Sciences of NAS of Ukraine and Zagorodnyuk, Pavlo Oleksiiovych, the Head of Tutkovsky Institute, Private higher educational institution, Chairman of the Board of All-Ukrainian Public Organization "Ukrainian Association of Geologists"



Tutkovsky Institute's Educational Classroom

By the end of 2009 Tutkovsky Institute, in collaboration with the Ukrainian Association of Geologists, has launched the program "Professional Development of Specialists of the Ukrainian Oil & Gas Industry for the International Co-operation and Employment in Western Companies". Particularity of such Program consists in fact that trainings are cost-free for attendees. NADRA Group, and also its partners—Shell, Halliburton, Discovery Drilling Equipment, Regal Petroleum and others became general sponsors of the program. The program could not be implemented without personal participation of P.O. Zagorodnyuk, H.Lenhart, I.P. Gafych, O.A. Kitchka.

The courses of professional development conducted in the context of this Program and seminars organised by specialists and scientists from international geological organisations—AAPG and EAGE—have attracted a great interest of attendees. Among the most interesting—lecture of Dietmar Neuhaus, Technical Director of "Shell Ukraine Exploration and Production" on theme "Aspects of shale gas, tight gas and coal bed methane exploration and development" and lecture course in oil geology and field development of the specialist of RAG Company—Wolfgang Nachtmann.

Some more events were devoted to the subject of non-traditional types of gas being so challenging for Ukraine that were organized and held by the Tutkovsky Institute. In November 2010 the Tutkovsky Institute of postgraduate education provided the seminar on the subject of "The economic attractiveness of the coal bed methane projects in Ukraine" (lectors B.I. Lelyk, D.M. Selivanov) and in September 2011 Institute jointly with the All-Ukrainian Public Organization "Ukrainian Association of Geologists" became co-organizer of the Second Donetsk International Scientific Practical Conference: "Assessment, Extraction and Application of Unconventional Gas: Attraction of Investments".









Rewarding of the students that took part in poster session organized with the the support of the Tut-kovsky Institute within AAPG International Conference in Kyiv, 2010

Lecturer Wolfgang Nachtmann is a leading specialist of RAG, gas production company (Austria), President of AAPG, 2011 The students at the lecture of Dietmar Neuhaus (Shell) related to the technology of exploration and development of shale gas reserves organized by the Tutkovsky Institute, 2011

The Course of lectures as for assessment of mineral deposit reserves that are conducted by the specialists of the State Commission on Mineral Reserves of Ukraine on the base of the Tutkovsky Institute. Lecturer V.G. Grygil

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G.A. Liventseva, General Director of Private higher educational institution Tutkovsky Institute

In 2010 the Institute started publishing the journal "Collection of Scientific Papers of the Tutkovsky Institute", wherein the authors of the articles were mainly the employees of the NADRA Group. Here there are both materials of prominent specialists well-known in the field and talented youth.



Liventseva, Ganna Anatoliivna graduated with honors from the geology department of the Taras Shevchenko Kyiv National University in 1990.

She has been working for NADRA Group since 1995.

In September 2009 G.A. Liventseva was appointed as General Director of the Tutkovsky Institute of postgraduate education, Private higher educational institution.

G.A.Liventseva is a member of the Board of the All-Ukrainian Non-Governmental Organization "Ukrainian Association of Geologists", Deputy Chief Editor of the journal "Geologist of Ukraine", Executive Editor of "Collection of Scientific Papers of the Tutkovsky Institute".

On the occasion of 20th anniversary of NADRA Group Mrs. Liventseva, Ganna Anatoliivna was awarded the corporative Medal of Merits.



R.F. Fedoriv is shown during the lecture at the Tutkovsky Institute



The professional courses of advanced training are the most successful, well-organized and useful judging from response of the students held together with the State Commission on Mineral Reserves of Ukraine, its best lecturers are H.I. Rudko, V.G. Grygil, V.I. Lovyniukov.

We may also confirm with assurance that the seminars and the courses of advanced training wherein the representatives of NADRA Group participate as the lecturers are also steadily successful. We thank I.P. Gafych, H.D. Lisnyi, V.A. Ryumin, H.O. Kashuba, S.M. Davydenko, R.F. Fedoriv for continuous effective cooperation.

N.G. Zagorodnya, Academic Secretary

Zagorodnya, Natalia Grygorivna started her labor activity in 1978 as a technician at the Institute "Ukrdipropromsilbud". She graduated from the Taras Shevchenko Kyiv National University in 1981 in major discipline (specialty): hydrogeology and engineering geology.

From the very beginning of the Institute activity as an educational institution (March 2005) at first she worked in the position of higher-level educational supervisor and then as academic secretary.

On the occasion of 20th anniversary of NADRA Group Zagorodnya, Natalia Grygorivna was awarded the corporative Medal of Merits.



A.V. Rudakov, Head of the Publishing department

Rudakov, Andrii Viktorovych graduated from the Taras Shevchenko Kyiv National University in 1993 in major discipline (specialty) "Geological survey, research and exploration of mineral deposits". In 1988 p. he underwent training at the International Center of privatization, investments and management in the field of Marketing.

From 1993 till 1994 he had been working in the department of marine geology and ore deposits of Central Museum of Natural History of the NAS of Ukraine.

From 1994 till 2001 he had been working in different divisions relating to sales of natural gas in Ukraine ("Ukrzarubizhnaftogaz" Corporation, "Ukrgazprom", JSC, "Energy and Gas Company", Industrial and Financial Corporation, Ukrtransgaz SC.

Since 2008 he was the manager of Publishing Group referred to NADRA Group and since 2009 he was the Head of the Publishing department of the Tutkovskyi Institute, Private higher educational institution.



O.M. Nazarova, Main specialist

Nazarova, Olena Mykolaivna came to work in the Publishing department of the educational institution (2010) due to first issue of new journal "Collection of Scientific Papers of the Tutkovskyi Institute and increased scope of scientific information received by the editorial board of the journal "Geologist of Ukraine". Higher education in the field of economy, working ability, literacy and diligence came in handy at this work. Long-service and work experience (since 1994) at the enterprises of NADRA Group in the position of leading economist, Deputy Head and Head of departments in Corporation "Ukrzarubizhnaftogaz", "Gazbudinvest" CJSC and NADRA Group, CJSC (2007–2010) also help Mrs. Nazarova, Olena Mykolaivna.



V.S. Shabatyn, is the Candidate of Geological and Mineralogical Sciences., Deputy Director General for Teaching and Studies of the Tutkovsky Institute, Private higher educational institution within 2005–2009

From 1963 till 1999 he had been working at the Taras Shevchenko Kyiv National University for 12 years while V.S.Shabatyn worked in capacity of the Dean of geology department of Kyiv National University which period is called as "epoch of Shabatyn". Mr. Shabatyn, Viktor Stepanovych is the author of more than 80 scientific papers among which there is a study-book on regional engineering geology, a study-book on fundamentals of hydrogeology and engineering geology, a study-book on engineering geology in Ukraine.

Gift of the scientist and administerial ability, invaluable pedagogical experience of Mr. Shabatyn, Viktor Stepanovych came in handy during organization of the teaching process on the basis of the Institute.

On the occasion of the 20th anniversary of NADRA Group Mr. Shabatyn, Viktor Stepanovych was awarded with corporate medal "For Extraordinary Merits".



S.V. Petrushenko., had been working in the position of Deputy Director General and Director of the Institute from 2001 till 2009

S.V.Petrushenko has been working at NADRA Group since 1995. Within his service he holds leading positions at NADRA Group, CJSC, in Corporation "Ukrzarubizhnaftogaz", CJSC "Gazbudinvest". Actually he holds position of Vice-Chairman of the Board of NADRA Geophysical Company, JSC.

Organization of scientific conferences

NADRA Group considers organization of scientific conferences and wide introduction of the results as for work of important world events as an integral part of its activity.

NADRA Group together with the Ukrainian Association of Geologists took part or sponsored more than 60 scientific conferences. The most significant ones are among them: the VI World Conference "Geodynamics, Earthquake Activity and Oil-And-Gas-Bearing Capacity of the Black Sea and the Caspian Sea Region" (Crimea, 12–16.09.2005); scientific and technical conference "Prospects of Oil-And-Gas-Bearing Capacity of Deeply Submerged Horizons of Sedimentary Basins of Ukraine" (Yaremche, Ivano-Frankivsk region, 20–23.09.2005); World Scientific and Pedagogical Conference "Geological Education and Science in the 21-st Century. The Problems of Teaching Geological Disciplines"

(Kyiv, 17–19.05.2006); Scientific Conference "Secondary Natural Reservoirs and Non-Structural Trap as the Objects of Sufficient Growth of Hydrocarbon-in-Place in Ukraine" (Kyiv, 24–26.05.2006); International session and geological tour of European Association in charge of geological inheritance preservation (3–9.09.2006.); Scientific conference devoted to the 40th anniversary of the Geology Department of the Ivano-Frankivsk National Technical University of Oil and Gas (Ivano-Frankivsk, 3–9.12.2006); 1st Scientific and practical conference "Ukrainian Bernstein Area" (Kyiv, 17–20.10.2007); 5th Scientific reading in honor of Yevhen Lazarenko, Academician "The Problems of Mineralogical Crystallography" (L'viv, 13–14.12.2007); World conference "Current Problems of Lithology and Minerageny of Sedimentary Basins of Ukraine and Adjacent Area" (Odesa, 02.09.2008).

In October 2003 the International Scientific Conference consecrated to 150th anniversary of kerosene lamp invention was held in Lviv and sponsored by Nadra Group.

NADRA Group is a general sponsor of AAPG International conference in Kyiv 2010 devoted to exploration and hydrocarbons extraction in the Black Sea and the Caspian Sea region





On April 16–17, 2008 International conference "The problems of stratigraphic geology of carboniferous system" was held and devoted to 100th anniversary of the birth of Einor, Olherd Leonardovych, a famous geologist, stratigraphic geologist, paleontologist and professor of the Taras Shevchenko Kyiv National University. Due to assistance of NADRA Group collection of scientific articles "The Problems of Stratigraphic Geology of Carboniferous System" and biographical book about O.L. Einor were published.

Scientific and practical conference devoted to the problems of coal bed methane extraction, shale gas and other alternative fuels, Donetsk,2009



Due to organization and financial support of NADRA Group International conference "Oil and gas research and exploration in the Black Sea and the Caspian Sea region: current achievements and prospects" was held that made available to gain attention of prominent oil companies and service companies in the world regarding the prospects of the Black Sea and the Caspian Sea region and at the same time raw material potential of the Azov and the Black Sea oil-and-gas bearing province of Ukraine.

Presentation of the advanced technology for the representatives of Shell regarding degasification of coal-bearing strata using the method of gravity discharge as registered invention of NADRA Group when participating in the International conference "Energy efficiency–2009"

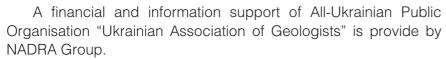


Social Programs of NADRA Group

Nadra Group stands actively for maintenance and augmentation of achievements of Ukrainian geology, participates in social work, assisting in creation of democratic public society and development of pro-active attitude for young people, supporting activity of corresponding non-government associations, propagating a healthy life in ecologically attractive environment.

The bright confirmation is long-term successful activity of All-Ukrainian Public Organisation "Ukrainian Association of Geologists" and "Chysta Khvylia".

The number of scientific, popular scientific issues are published with informative and financial support of Nadra Group in particular for a youth audience.



Ukrainian Association of Geologists is All-Ukrainian public organization that involves geologists, geophysics, engineers and scientists in the field of geology in Ukraine. The Association was founded on the initiative of NADRA Group. Prominent geological and exploration associations, governmental organizations, academic, scientific and research institutes, service companies and geophysical institutions of Ukraine took part in its establishment.

Current Ukrainian Association of Geologists is the successor of the Kharkiv Geological Society founded in Ukraine in 1916.

All-Ukrainian Public Organisation "Ukrainian Association of Geologists" was founded on the 23rd of February 2000. On that day statutory meeting was held in Kyiv wherein the Statute of the organization was adopted and the first membership of the Board was appointed. On May 10 of the same year the Ukrainian Association of Geologists was registered by the Ministry of Justice of Ukraine.



Public speaking of Chairman of The Board of AUPO "Ukrainian Association of Geologists" P.Zagorodnyuk during the visit of AAPG President Mrs.Roberta Gries to Kyiv, 2001

The Association has been working successfully for 11 years and has 22 regional centers as well as divisions in Kyiv and Republic of Crimea and accounts for 4 thousand of actual members. Ukrainian Association of Geologists includes 34 geological societies, associations and enterprises. Among them there are collectives of such organisations and companies, as: State Geological and Subsoil Survey of Ukraine, State geological information fund of Ukraine "Geoinform of Ukraine"; State Commission of Ukraine on Mineral Resources; Academy of Mining Science of Ukraine, Ukrainian Mineralogical Society, Ukrainian Paleontological Society, Scientific Centre for Aerospace Research of the Earth, PJSC "Ukrnafta", State Geophysical Company "UkrGeofizyka"; State PJSC "Chornomornaftogaz".



Ceremony on the occasion of Geologist's Day Celebration, 2005

Ukrainian Association of Geologists is the founder of the journal "Geologist of Ukraine" that has been publishing since 2003. In addition to the journal NADRA Group supports the activity of the Association far and wide, assists in implementation of educational projects for youth, work with long-service employees, support of geological museums and measures relating to conservation of geological monuments, organizing of scientific and practical conferences (national and international), publishing activity.

In 2001 the Council of long-service employees of the Ukrainian Association of Geologists was established for the maintenance of the relations between generations, efficient implementation of scientific, production and managerial experience as well as in order to pay a tribute to honored people of the field. Due to assistance of NADRA Group the effective Aid system was established in the Union for retired persons and their families.

Within the project "Young Geologist" and due to charitable contributions of NADRA Group the series of scientific and popular literature has been publishing for schoolchildren, Ukrainian teams of children have been formed, trained and delegated abroad for participation in the international geological academic competitions.

Ukrainian Association of Geologists provides active cooperation with international geological and geophysical organizations, such as: AAPG, EAGE, EAGO, AWL.



L.F. Gafych is Senior Vice-Chairman of the Board of All-Ukrainian Public Organisation "Ukrainian Association of Geologists"

Gas Institute in 1979. She started her labor activity at Stryi State Geophysical Enterprise "Ukrgeophysics" in 1973. She was involved directly in the first natural gas deposit discovery in folded rock of the Carpathians as well as in discovery of the oil and gas deposits and basins in the Western region of Ukraine.

Since 1999 she was transferred to the position of the Main Specialist in the Ministry of Ecology and Natural Resources of Ukraine being in charge of control and management over geological and exploration works, research and exploration of the deposits in Dniprovo-Donets basin and since 2001 she has been Senior Vice-Chairman of the Board of the Ukrainian Public Organisation "Ukrainian Association of Geologists"

On the occasion of 20th anniversary of NADRA Group Mrs. Gafych, Lyudmyla Feliksivna was awarded the corporativee Medal of Merits.



V.V. Ogar
is Vice-Chairman of the Board
of All-Ukrainian Public Organisation
"Ukrainian Association
of Geologists", Doctor
of geological sciences

Ogar, Viktor Volodymyrovych is a graduate of the Taras Shevchenko Kyiv National University in 1977. In 1986 he is the Candidate of Geological and Mineralogical Sciences. He is one of the founders of Scientific and Production Center "Terra Ukraine" that became a prototype of NADRA Group. From 1997 till 2002 he is Vice-Chairman of the Board of NADRA Group, CJSC.

In 2009 Mr. Ogar, Viktor Volodymyrovych received a Degree of an Assistant professor of the Department of Mineral Deposit Geology. In conformity with the Resolution of Presidium of the Higher Attestation Commission of Ukraine dated 01.07.2010 he was conferred an academic degree of Doctor of geological sciences with a specialization in general regional geology. Viktor Volodymyrovych is a teacher of the geology department of the Taras Shevchenko Kyiv National University, Vice-Chairman of the Board of All-Ukrainian Public Organisation "Ukrainian Association of Geologists", Deputy Chief Editor of the journal "Geologist of Ukraine", and Chief Editor of "Collection of Scientific Papers of the Tutkovsky Institute

On the occasion of 20th anniversary of NADRA Group Mr. Ohar, Viktor Volodymyrovych was awarded the corporativee Medal of Merits.



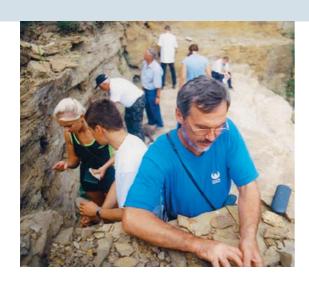
O.A. Kitchka

is a member of the Board of All-Ukrainian Public Organization "Association of Geologists of Ukraine" and the editorial board of the journal "Geologist of Ukraine", duly authorized representative of American Association of Petroleum geologists (AAPG) in Ukraine

Litchka, Oleksandr Anatoliiovych graduated from the Geology Department of the Taras Shevchenko Kyiv National University with a specialization in hydrogeology and engineering geology in 1983. Having received higher education he worked at UkrDIPRONIInafta, the Scientific and Research Institute of the Ministry of Oil industry of the USSR and from 1989 till 2000 he had been working at the Institute of Geological Sciences of NAS of Ukraine and then he was a Scientist of the Center for Aerospace Research of the Earth.

Mr. Kitchka, Oleksandr Anatoliiovych is the author of many scientific, scientific and popular publications in Ukrainian and foreign publishing companies, he used to take part in the International scientific conferences, symposiums that were held in Germany, Austria, Netherlands, Finland, France, Italy, Greece, Czechia, Romania, Turkey, Iran, Canada, Poland, Greece, Russia and Azerbaijan as well as in the geological congresses in Florence and Oslo. His main scientific interests touched the problems of oil and gas origin, regional tectonics, application of remote sensing for oil and gas exploration in the sea.

Mr.Kitchka, Oleksandr is a member of the Ukrainian Association of Geologists, was awarded with Golden award badge for success in work and with medal "For Merits" of 2nd grade. Since 1999 he is duly authorized representative of American Association of Petroleum Geologists (AAPG) in Ukraine and since 2004 he is a Vice-President of Kyiv Center of European Association of Geological Engineers (EAGE), curator of the Students Center AAPG at the Geology Department of the Taras Shevchenko Kyiv National University. He is a member of the editorial board of the journal "Geologist of Ukraine" and "AAPG Bulletin".



The Association supports the effective profession-oriented circles at schools and encourages creating new ones; therefore it organizes geological schools, seminars, field surveys and tours

A team of young geologists of Ukraine during International academic competition in Tomsk city of Russian Federation, 2011



A financial and information support is provided by NADRA Group for All-Ukrainian Public Organization "Chysta Khvylia".

All-Ukrainian Public Organization "Chysta Khvylia" was founded in 2000 on the initiative of NADRA Group by prominent Ukrainian scientists and involved leading specialists in ecology, geology, biology, medical science, education in order to solve the ecological problems, implementation of the governmental and internation projects aimed at environmental protection. It has regional centers in major part of regions of Ukraine. During its work "Chysta Khvylia" assembled the best pool of experts in environmental issues in Ukraine under one roof.

"Chysta Khvylia" actively cooperates with institutions of National Academy of Sciences of Ukraine, Kiev-Mogilyanska Academy, National Aviation University and Kiev "Taras Shevchenko" National University as well as with other institutions of higher education.

"Chysta Khvylia" is the founder of subsidiary enterprise "Chysta Khvylia", "Scientific and Technical Center that carries out scientific research in ecological field and especially for NADRA Group.



Participation of All-Ukrainian Public Organization "Chysta Khvylia" at the exhibition "Environment–2011", Kyiv

For the purpose of youth involvement in research of environment, cooperation with outstanding scientists -ecologists, biologists, geographists and geologists the youth section was created of "Chysta Khvylia", All-Ukrainian Public Organization. Youth is involved in implementation of scientific, practical and grant projects.

In the work of the organization great attention is paid to ecological education of the specialists referred to energy mining industry. Educational programs for the specialists of production that contaminate the environment, are initiated and implemented by the members of the organization among which there are also the employees of NADRA Group through the Tutkovsky Institute, Private higher educational institution.



A.I. Yerysheva— Senior Vice-Chairman of the Board of All-Ukrainian Public Organization "Chysta Khvylia"

Yerysheva, Antonina Ivanivna graduated from the Chemistry Technological Department of Kyiv Polytechnic Institute in 1971. She worked at the Scientific and Research Institute of alkali-chlorine industry from the position of a laboratory assistant to the position of a Head of the department. After 1991 she worked in the Ministry of Industry in the division of novel technologies implementation and then at the Department of energy-fuel complex of the Cabinet of Ministers.

She started her work at NADRA Group as a Vice-Chairman of the Board, then more attention was drawn to the ecological issues, she took a course of ecological audit at the State Ecological Academy of Postgraduate studies and she held an office in governmental institutions: the Head of Community Board at the Ministry of Nature, member of community councils of Kyiv Municipal management of ecology and conservation of natural resources and State Environment Agencies, member of Coordinative Council for environmental labelling.

On the occasion of 20th anniversary of NADRA Group Mrs. Yerysheva, Antonina Ivanivna was awarded the corporative Medal of Merits".



"People Are Our Main Assets" (Traditions of NADRA Group)

NADRA Group is an integrated company that has powerful and permanent corporate culture and the system of corporate values, the main of which are competence and professionalism, honesty and impartiality, responsibility, sociability and respect to a person. The atmosphere of mutual respect and support is the key to long-term employment relationship between the companies of NADRA Group and among each employee.

For 20 years of NADRA Group history the staff developed their own traditions. We share the joy of delivery of a child in the families of our colleagues greeting a newborn with a traditional gift - Ukrainian embroidery and a greeting card that is the first one in his life. And on Christmas, St. Nicholas has been coming with

gifts to the children and grandchildren of employees for almost 20 years.

Among the traditions of the employees of NADRA Group we may also find a joint active recreation and sports. In 2000 initially the employees created small informal sport club of NADRA Group. Among favorite sports there is a football, tennis and cycling. At employees' disposal there are tennis tables and trainers. Cooperation with Sailing Federation caused an interest to sailing among the members of sport club.

Among the traditions that are supported by the Board of NADRA Group, there is a financial and social aid for the long-service employees of NADRA Group. People, who have made

outstanding professional contributions to the development of the companies, continue to be an integral part of a large family of NADRA.

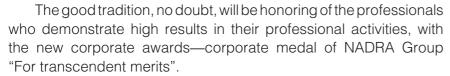
Conservation and environmental protection are not only the principles declared by the Board of NADRA Group but also it is a perceived position of each member of NADRA Company. So, it is not a surprise that for three consecutive years with coming of spring and warmth everybody is already waiting for a traditional subotnik (cleaning day), a holiday of labor that is so concordant with our Ukrainian community aid. On these labor holidays (there is no other way of calling it) the whole families come together. And then all together are gathered at a makeshift table because of delicious smell of fish soup and shashlyki.

But the most romantic tradition of NADRA Group, of course, is celebrating their professional holiday of Geologist Day! High, bright fire gathers NADRA employees both national and foreign cooperation partners, long-service employees of NADRA Group, professors and students of the Geology department in the wide family circle—the circle of people fascinated with their profession, the profession of geologist!









This corporate award was introduced in 2011—on the occasion of 20th anniversary of NADRA Group, the employees are awarded for their excellent work and support of corporate culture, keeping to the traditions and long-term faithfulness to NADRA Group.



The flowerbed at the office area, 2011



Nadra Data Processing Center's staff at the excursion in Transcarpathian region, May, 2011



Outlook for the Future

For 20 years of its activity minor enterprise "Terra Ukraine" founded by the scientists for performance of scientific and research works has been grown into major private service company in Ukraine for providing services in geological exploration of the mineral resources, research, survey and development of oil and gas deposits.

The main components of success of NADRA Group became effective management, focusing to application of advanced technology and striving for continuous perfection in solving of geological issues and concerns of our customers

Today, potential of 10 service enterprises and factories off NADRA Group is sufficient to transferring from performance of certain types of works and services in the exploration and petroleum industries to comprehensive service for our customers, from exploration of the deposits and evaluation of their reserves to service support of the development process regarding potential of resources, control of development, optimization of the production wells and their intensification.

We are striving and do our best in order the service companies of the Group could continuously increase its human resources and technical potential, improve efficiency and complexity of services as well as solutions provided to the customer, introducing new technologies and research methods. The result of this work can be creation of a number of new service companies (NADRA Drilling

Company, Ltd, Nevskaya Geophysika, Ltd.) and NADRA Integrated PetroleumTechnologies, Ltd. which main task is organization of the works and management of complex and integrated projects for which potential of NADRA Group and its partners are involved.

In designing and manufacturing of the equipment by the plants of the Group that can be used by its service companies for performance of the works, we try our best in order to meet best international standards of industry. For this purpose we cooperate with some foreign scientific and industrial centers of geophysical petroleum instrument engineering. The effectiveness of this collaboration we can see today. Products and technologies of the Group plants are supplied to most oil countries of CIS, the USA, Canada and other foreign countries.

In general it should be noted that the priority for further development of the Group can be implementation of advanced technologies of global industry leaders and their creation by their own means using scientific and technical potential of the company. Our goal is creation of a service company, features and principles of which will meet the best standards of the work of companies such as Halliburton, Shlumberger and others.

Achieving this goal, the people, i.e. the human resources of the Group play the main role. During the 20-year period of its activity in NADRA Group a team of the specialists has been assembled, they are the best experts of research institutions, exploration and mining enterprises in Ukraine. The specialists work In the Board of the company and its service companies who are from Russia and other foreign countries. Within the company we managed to grow and train our own staff for work that now forms the basis of its production activities.

Much attention is paid to work with young people in NADRA Group companies, starting with the support of young geologists for vocational guidance of younger generation in cooperation with leading educational institutions and universities of the country that train professional geologists and petroleum technicians.

On the initiative and support of the Group the Tutkovsky Institute of postgraduate education, Private higher educational institution was established and continues to function, which introduces new technologies and provides advanced training of the Company employees and our customers. The Institute also implements a

number of charitable programs for advanced training of Ukrainian geologists in conformity with Western standards.

We try to increase the achievements and traditions of Ukrainian geology, due to its efforts mineral resources base of the country was created that is one of the largest in Europe and in the world and we are striving to be socially responsible company, as to our employees and to the professional community on the whole.

The results of this policy can be the initiative for creation and extensive support of All-Ukrainian Public Organisations «Ukrainian Association of Geologists», "Chysta Khvylia", sports and youth movements, educational and publishing activities, establishing of the contacts with international unions and associations, including AAPG, EAGE, SEG, AWL, EAGO and others.

We want to be the best in our business and not only in Ukraine and to compete with the leading service companies with dignity including not only the value of works but their quality and completeness as those that can meet the realities of time and the needs of our customers to the best advantage. We believe in success and we will achieve it.

Nadra Group's Future



The book has been organized by Nadra Group's specialists.

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