



## ***Geophysics innovative RSS / NMR in questions And answers***

### **1. That is the RSS / NMR?**

The technology RSS / NMR is the approach innovative for the revelation and remote inspection of hydrocarbon deposits, minerals and also sources of water restored drinking in deep water. The technology RSS / NMR is the approach innovative for the revelation and inspection remote and terrestrial deposits of hydrocarbons, minerals and also sources of sweet water restored in deep water.

The inspection remote of the sites and deposits provides the RSS service (spectral resonance research) through spectral processing resonant of images space analog (air). The use of said service does not require any permission or coordination since it is they use the images space of the access open. The NMR (Nuclear Magnetic Resonance) service provides the investigation of deposits in land crazy through a method of magnetic resonance. It is possible to familiarize yourself with this method in more detail in the scientific article "About the possibility of identification of deposits of hydrocarbons with the help of NMR" (<http://www.geosci-instrum-method-data-syst.net/5/551/2016/>). HE requires the authorization official for the realization of the expedition in the territory of the Customer.

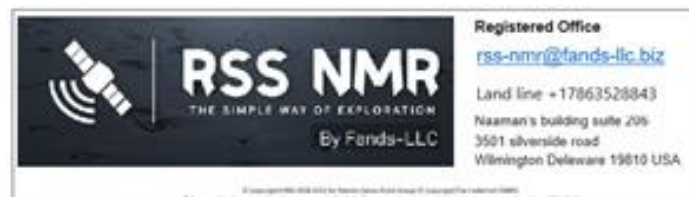
### **2. By that the technology RSS / NMR HE refers to innovative.**

Our technology is innovative in the geophysics market, as it realizes an essentially new physical approach to the revelation and investigation of underground hydrocarbon, mineral and freshwater deposits, and also provides the Client with much higher efficiency of the investigations. Of manner preliminary, we score the specters of the substances required and then through a resonance effect we reveal them on site. Regarding This, RSS / NMR technology is a direct method of investigations when the presence of required substances at an inspection site is carried out directly, and only then your further examination is taking place. In this consists his major difference with the methods indirect where HE makes an interpretation of the various data indirect received in a place research.

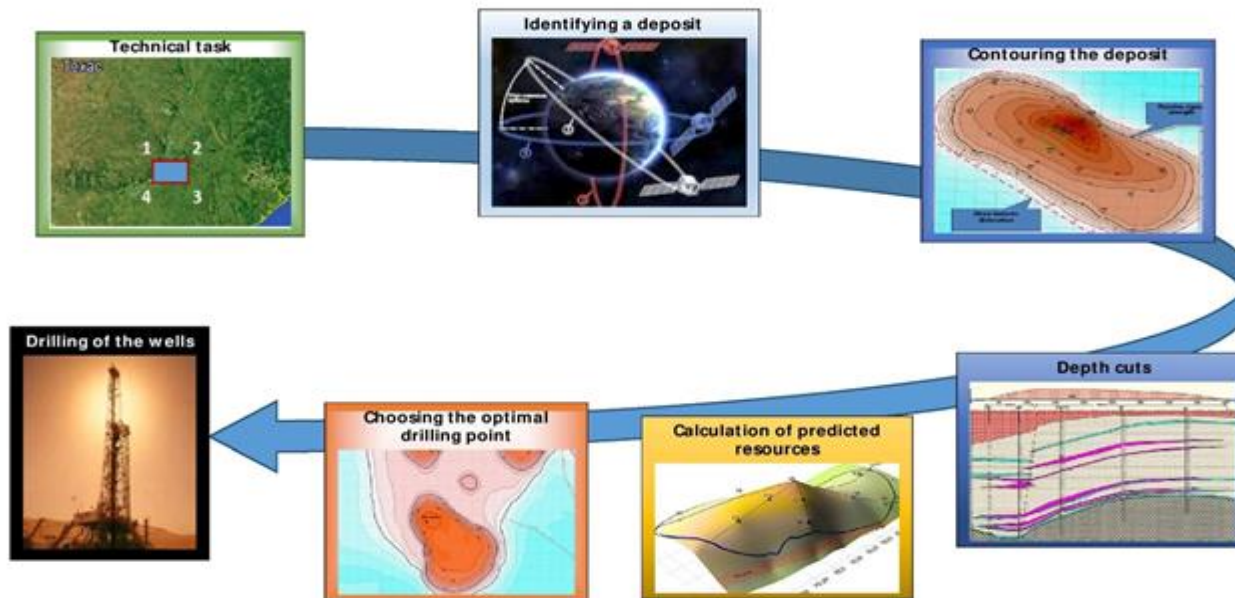
### **3. Which is the efficiency of the technology offered?**

As parameters main of efficiency of the methods geophysicists, serving three parameters basics:

- *The productivity of works R* (is a degree of achievement of the results planned, is say, the attitude of the cracks perforated with success forehead to the number general of cracks perforated by the given technology).
- *The operability of the works T*, that is the time during which the Client will receive the results of the plays geophysics ordered.
- *He cost of the plays C*, - this parameter is extremely clear for the consumer.



**How RSS technology works  
for remote deposits survey directly**





#### 4. Productivity

Work productivity RSS/NMR Rt exceeds 90%, which means that the number of mistakes in the research is lower at 10%.

The productivity of works accomplished by 3D seismicity Rs - makes up approximately 30%, that is, about 70% of the jobs compliments they lead to the drilling of the wells "dry." Comparing the percentage of possible errors, we see that RSS / NMR reduces approximately the risks of drilling of wells "dry" by a order minor.

#### 5. Has technology testing been performed on known deposits?

Upon completion of the scientific and technical work on the creation of technology, repeated tests of technology have been carried out in Ukraine and also in Indonesia, Russia and USA. In 2009, the technology was tested in the difficult geological structures of the Green River formation in the state of Utah (USA). During the tests provided, technology has completely confirmed high parameter efficiency: 100% productivity and 98% precision of results. The High efficiency of technology is confirmed by more than 50 projects executed with success in twenty-one countries of the world.

#### 6. Costs

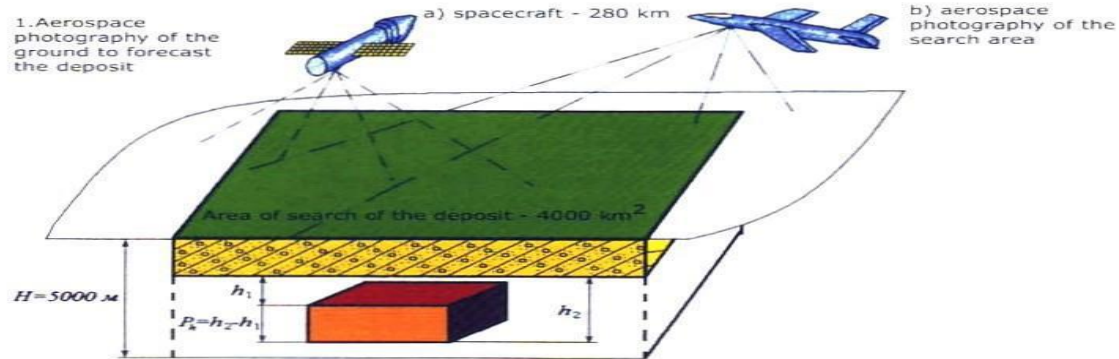
The cost of our service considerably lower per 1 square kilometer. Furthermore, the larger the research area, the lower the cost of research services for 1km<sup>2</sup>. In this sense No have competitors.



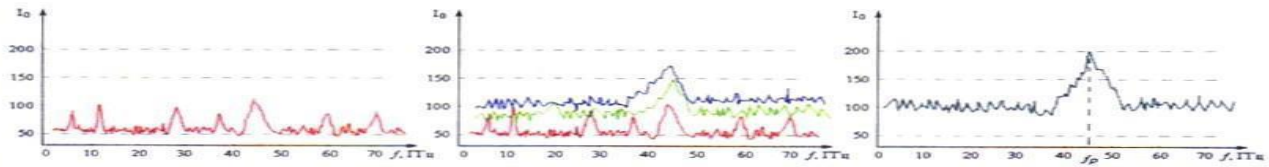
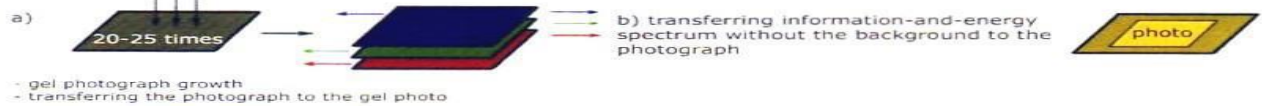


**REMOTE SEARCH METHOD USING THE GEOHOLOGRAPHIC SYSTEM "Poisk"**

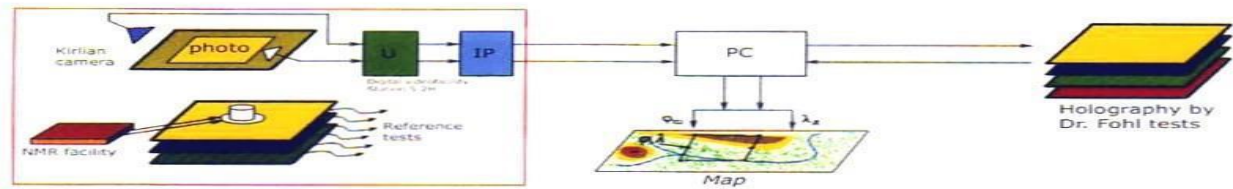
1. Aerospace photography of the ground to forecast the deposit



2. Transferring the photograph to the gel photo and filtering the information-and-energy in the photochemical laboratory

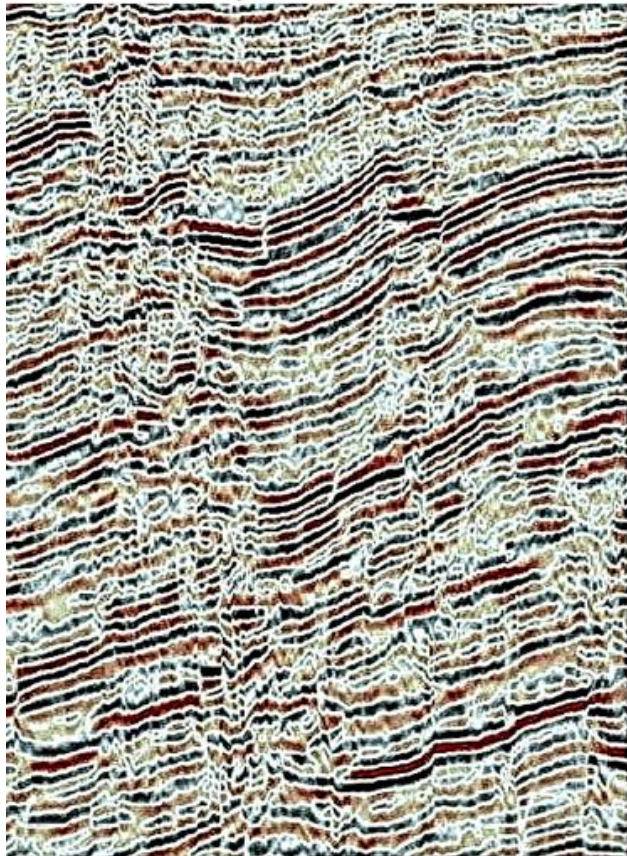


3. Identification of deposit type and contouring its area, definition of coordinates, transferring them to the map

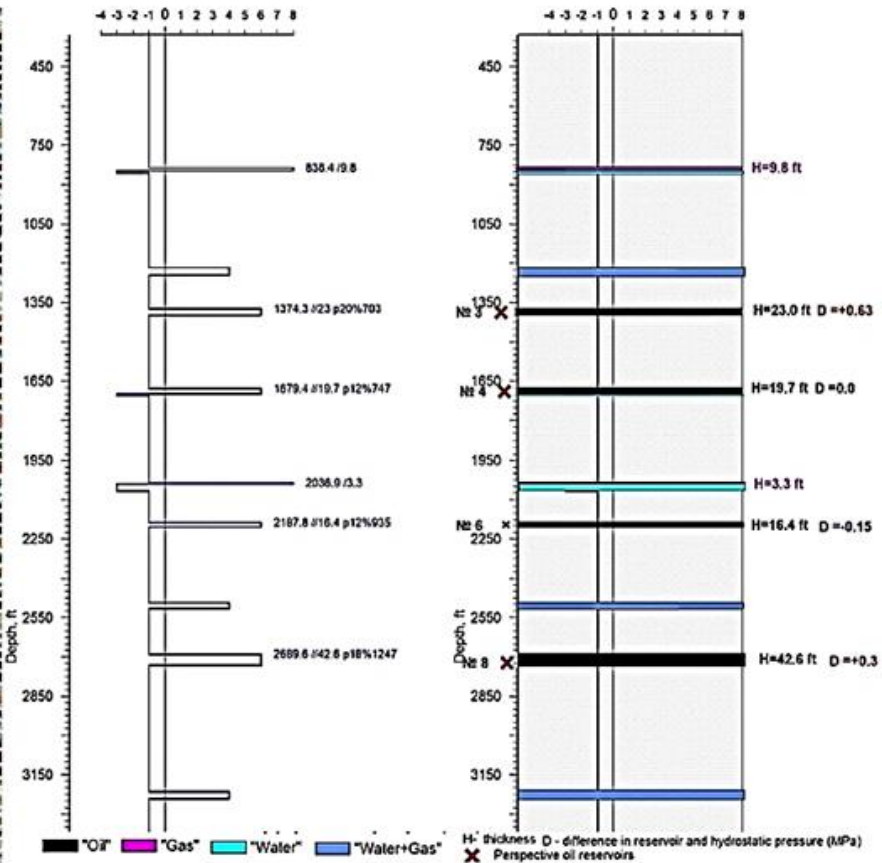


Como la RSS-NMR y las sismicas clasicas muestran los resultados de terrenos

Sismica , una larga interpretacion es necesaria



RSS-NMR lectura directa de los resultados , sin interpretacion





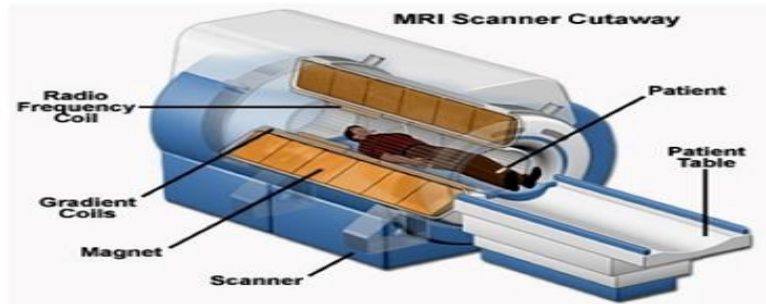
## THE GENERAL IDEA

Technology is based on the effect of nuclear magnetic resonance. Nuclear magnetic resonance (NMR) - a physical phenomenon is used to study the properties of molecules under irradiation of atoms' nuclei by radio waves in magnetic field.

The essence of the nuclear magnetic resonance phenomenon is that during exposure of object placed in constant magnetic field to radio frequency impulses electromagnetic energy is consumed and further released in the form of response impulses that can be registered and analyzed.

For the discovery of the effect of nuclear magnetic resonance in 1952 the American scientist Felix Bloch and Edward Mills Purcell were awarded the Nobel Prize in Physics. Nuclear magnetic resonance is widely used in science and engineering.

In medicine, it is called a magnetic resonance imaging (MRI).



MRI is based on the principle of re-emission of radio waves by hydrogen nuclei (protons) contained in the tissues of the body, immediately after receiving the energy from the radio wave signal, which the patient is irradiated. The patient is placed in a powerful magnetic field. At him affects the RF signal, causing nuclear magnetic resonance in the desired tissues or organs. The scanner receives response signals, which are then processed in the computer and creates an internal image (visualization).

### Mobile | The evolution of the cellphone

<b>1984</b> Motorola DynaTAC 8000X The first cellphone to be offered commercially by Nokia. The Motorola DynaTAC 8000X weighed 2.5 pounds and cost \$3,995.	<b>1987</b> Motorola Cityman One of the world's first handheld cellphones, the Cityman weighed 28 ounces with the battery.	<b>1989</b> Motorola MicroTac Initially manufactured as an analog cellphone, the MicroTac was an early example of a flip phone, in which the mouthpiece folded over the keyboard.	<b>1992</b> Nokia 1011 The first digital handheld phone, the Nokia 1011 would become the company's best-selling phone ever.	<b>1993</b> BlackBerry/BM Simon Personal Communicator First phone with a touch screen and smartphone features (pager, calculator, address book, send/receive faxes, games and email). Cost about \$900.	<b>2000</b> Ericsson R380 The first device marketed as a smartphone.	<b>2002</b> BlackBerry 5810 Made by Research In Motion, the 5810 was a cellphone with organizer functions and a keyboard for thumb; a wired headset was mandatory.	<b>2007</b> Apple iPhone Hundreds of people lined up outside Apple stores to buy the first iPhone, priced at \$299 (4GB) and \$599 (8GB).

2D archaic

2D

3D

Nodes et RSS-NMR

### Evolution of mobile phone and seismic technology

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**EFFICIENCY COMPARISON FOR BIG EXTENSIONS**

Method	Job to produce	Results (for a area ~1000 sq . km)		
		Effectiveness	Duration	average number of wells
<i>Methods all traditional</i>	<i>Space study geological study Geophysical study Drilling search</i>	30 – 40 %	1 - 2 years	6 ( Information from Russian State Institute of Oil and Gas)
<b>RSS-NMR</b>	<i>Spectral survey of resonance.  Resonance probe nuclear - magnetic deposited in the place</i>	➤ 80 %  ➤ 90 %	23 Months  2/4 months	1

**Features comparatives with seismograph 3D**

#	Parameters	3D-Seismic	RSS-NMR
1	<i>Binding topographic</i>	+ (anomalies)	+
2	<i>Construction of models 3D of objects</i>	+ (anomalies)	+
3	<i>Search of traps not structured oil and gas</i>	---	+
4	<i>Detection of "caps" of gas in horizons of Petroleum</i>	---	+
5	<i>Definition of the pressure of the gas in the "tapas" of gas</i>	---	+
6	<i>Definition of the presence of mobility oil</i>	---	+

**RSS NMR**  
 THE SIMPLE WAY OF EXPLORATION  
 By Fands-LLC

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## DESCRIPTION OF JOBS

### 1. Stage regional ("diagnoses" remote of the block of the Customer)

No	Name of plays	Volume of the job done	Duration
1.	Jobs preparatory	1.1. Order and receive images of satellite of the zone of study 1.2. Order and reception of products chemicals and consumables 1.3. Preparation of samples of the substances required and record of their ghosts electromagnetic. 1.4. Preparation of equipment for he job.	1st - week
2.	The technological process of detecting and identify the desired objects in area of study	2.1. Prosecution of resonance spectral of Photographs space in presence of Plates proof 2.2. Chemical treatment of negatives that have been exposed by resonance. 2.3. Display of the contours of the objects detected through the camera Kirlian 2.4. ID and selection of the objects desired 2.5. ID and detection of structures of failures	2 days week
3.	Photogrammetric calibration of computer images of objects. The detention of the objects	3.1. Obtain a image of computer of the objects identified wearing a camera Of video digital 3.2. Determination of contours and boundaries of objects, level of luminosity. 3.3. Layout of isolines of signs of answer in units relative	3rd - week





		<p>3.4. Geographic referencing of points of the images space studied and contours of objects to the map geographical thezone</p> <p>3.5. Determination of the geographical coordinates of the singularized objects.</p> <p>3.6. Determination of the size and position of the deposits in he land.</p>	
4.	Preparation and presentation of areport to Customer	<p>4.1. Elaboration of a map of the area with the boundaries of the contours ofthe deposits identified in the surveyed area, response isolinesof signals and zones of peeling.</p> <p>4.2. Elaboration of data textual, drafting of note explanatoryOf the report.</p> <p>4.3. Provide he report to the Customer</p>	4 <sup>th</sup> week
	<b>Total</b>	100 % of the volume of jobs by he Contract	4-5 weeks

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**2 days stage**

**Study remote detailed of deposits identified**

№	Name of plays	Volume of the job done	Duration
1a.	Jobs preparatory	1.1. Order and receive images of satellite additional for the exploration volumetric of the deposit identified 1.2. Preparation of products chemicals and consumables	1st - week
1 B.	Jobs preparatory	1.3. Recording of the spectral electromagnetic required on plates of proof 1.4. Verification of the equipment (test of routine)	1st - week
2.	Process technological of study detailed in depth deposit	2.1. Spectral resonance processing of photographs space additional for create a effect "stereoscopic" 2.2. Treatment chemical of negative that they have suffered exposure by resonance. 2.3. Refinement of the contours of the deposit and of the structures of failure in images detailed	2 days week





3	He prosecution of the data received	<p>3.1. Geographic referencing of points of the images space studied and contours of objects to the geographic mapping of the zone</p> <p>3.2. Determination of the number of horizons in the deposit.</p> <p>3.4. Determination of the depths of horizons in the sections transversal and longitudinal of the deposit.</p> <p>3.5. Creation of banks deep of the deposit.</p> <p>3.6. The construction of a model 3D of the horizon - base</p> <p>3.7. The construction of a map structural of the horizon - base</p> <p>3.8. Determination of optimal areas and uncovering points of the deposit.</p>	3rd - week
4.	Preparation and presentation of a report to the Customer	<p>4.1. Preparation of a map of the area with the boundaries of the contours of the deposits identified in the zone studied.</p> <p>4.2. Elaboration of data textual, drafting of note explanatory of the report.</p> <p>4.3. Provide the report to the Customer</p>	4th - week
<b>TOTAL</b>			<b>4-5 weeks</b>





## A LITTLE HISTORY



### Evolution des technologies en Exploration-Production

1882 1900's 1914 1924 1930's 1930	Théorie de l'anticlinal Forage Rotary Sismographe Log de puits 1 <sup>er</sup> puits en "mer" Sismique ponctuelle	1 <sup>er</sup> qualités des roches et des fluides Extension au domaine maritime (> 10m) Imagerie 1D Subsurface	1 <sup>ère</sup> période 1880-1930  Explo. à partir des affleurements et des indices de surface
1930's-1940's 1950's	Géophysique Biostratigraphie Sismique et de logging	Généralisation de la 1D Corrélations et datations géologiques précises Amélioration des outils	2 <sup>ème</sup> période 1930-1950's Exploration encore « hasardeuse » des bassins
1960's	Ordinateur digital (1963) Rift continental (1969) Diagraphie moderne	2D image de subsurface Meilleure connaissance structurale Propriétés des roches et fluides de subsurface	3 <sup>ème</sup> période 1950's-1970's Exploration « semi-calibrée »
1970's  1977	2D migration (1975) Forage directionnel Rock Eval  Analyse stratigraphique	Sismique numérique calibrée  Concepts "roche mère et formation des HC" approfondis Amélioration de la prédiction	4 <sup>ème</sup> période 1970's-1980's Exploration « calibrée »
1985 1985	Sismique 3D Système pétrolier	Meilleure précision des objectifs à forer Meilleure définition des zones à potentiel	5 <sup>ème</sup> période 1980's-1990's " Exploration-Production optimisée"
1990's	Simulation 2D et 3D des bassins et des réservoirs Attributs sismiques Sismique 4D et monitoring	Prédiction des mouvements et de la localisation des fluides Prédiction des fluides et extensions de réservoirs	6 <sup>ème</sup> période 1990's Exploration-Production « rationalisée »

Source : IFP (v1A, 2005)

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