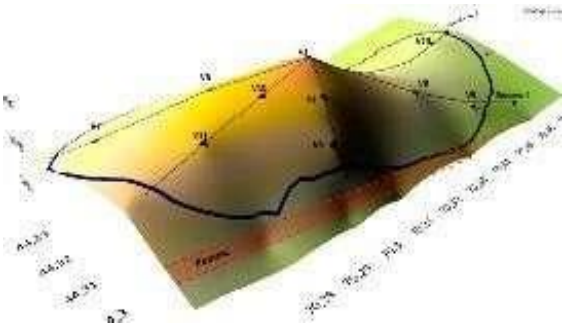
Hydrocarbons – oil

№	Country	Context of work	Results of work
1	**Ukraine** 2007	Wells 18, 21, 22, 24 of Vladislavsko e oilfield were explored	Measurement errors did not exceed 5%
2	**Ukraine** 2007	Wells 1 and 18 of Moshkarevskoye field were explored	Measurement errors did not exceed 5%
3	**USA** 2009	Testing of technology on 5 wells in the state of UTA 100% efficiency. Error of depth measurements less than 3 %	 
4	**USA** 2009	An oil reservoir in Utah has been identified and investigated in detail The parameters of occurrence and predicted resources of the deposit have been determined	
5	**Ukraine** 2010	The Vasilevskiy field was surveyed in detail	The results of the research were confirmed by drilling
6	**Ukraine** 2010	The Subbotins field was examined in detail	The results of the research were confirmed by drilling on the Black Sea shelf
7	**Indonesia** 2011	Regional and detailed exploration of the Brantas block with a total area of 3050 sq. km	The data of the identified oil and gas anomalies coincided with the discovered drilling and promising geological structures
8	**Guinea** 2011	Detailed survey of two offshore platforms in the Gulf of Guinea	The data obtained coincided with the Customer's data with sufficient accuracy

9	**Kazakhstan** 2012	Regional and detailed study of a 300 sq. km	Identified, delineated and investigated 3 oil deposits within the oil and gas basin Kumkol
11	**Ethiopia** 2012	Regional survey of the area of 3600 sq. km	2 large oil basins have been identified and delineated
12	**Russia** 2012	Regional survey of the area of 3600 sq. km	2 large oil basins have been identified and delineated
13	**Russia** 2012	Detailed remote sensing of two oil deposits. ata of occurrence, points for drilling and predicted resources of the deposit were obtained	
14	**Russia** 2013	Preliminary remote testing of 2 drilling points in the Komi Republic. Drilling has shown 100% research efficiency	
15	**Libya** 2014	Drilling Point Remote Testing for Al Wahha	Research Results Confirmed by Drilling
16	**Lithuania** 2015	Remote testing of two drilling points	Survey data and well data matched
17	**Greece** 2016	Regional survey of the 8350 sq. km Gas a d oil deposits were identified and delineated on the island and on the shelf	

18	**Mongolia** 2016	A regional survey of the license area i the east of the country with an area of 17,000 sq. km 4 oil deposits have been identified, contoured and examined in detail	
19	**Morocco** 2017	Regional survey of an area of 4200 sq. km Highlighted a site containing a promising oil reservoir	
20	**Italy** 2017	Regional survey of an area of 1,500 sq. km on the island of Sardinia Highlighted a site containing a promising oil reservoir	
21	**USA** 2017	Remote testing of two points for drilling in Iowa. Recommendations and a forecast for drilling are given	
22	**Kazakhstan** 2018	Regional survey of a 315 sq. km and a detailed survey of the identified gas and oil reservoir with an area of 45 sq. km.	

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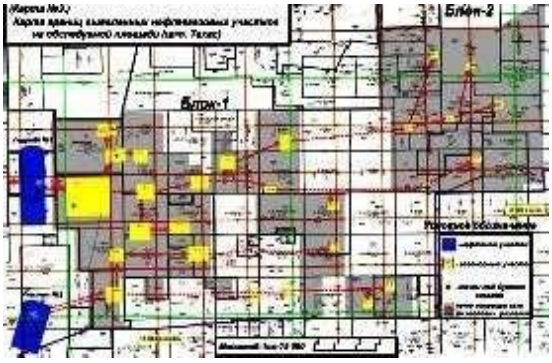
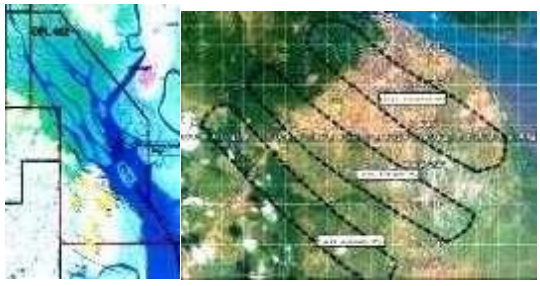
Hydrocarbons - gas, gas condensate, gas hydrates

<table>
<tr><th>№</th><th>Country</th><th>Context of work</th><th>Results of project</th></tr>
<tr><td>1</td><td>Ukraine
2006</td><td>Testing of equipment at 2 wells with natural gas and 2 wells with gas condensate</td><td>The data obtained coincided with the data of wells with gas and gas condensate.
Measurement accuracy within 3-10%</td></tr>
<tr><td>2</td><td>Ukraine
2007</td><td>Drilling point survey at Novokonstantinovsky area</td><td>The data of the conducted study coincided with the data of geophysics and was confirmed by drilling</td></tr>
<tr><td>3</td><td>Ukraine
2008</td><td>Inspection of the Chernobyl exclusion zone with an area of 2,600 sq. Km.</td><td>Identified and delineated 2 gas deposits within the exclusion zone and an oil deposit at the border of the zone</td></tr>
<tr><td>4</td><td>USA
2010</td><td>2 licensed blocks in the state of Texas were examined. Areas of shale and natural gas have been identified. The drilling point was recommended instead of the one previously selected by the Customer. The field was discovered from the first well, without seismic</td><td>  </td></tr>
<tr><td>5</td><td>Ukraine
2010</td><td>The mine «Zasyadko» was examined.
Revealed 5 horizons of gas under the coal horizons.
Drilling showed high data agreement</td><td><table><tr><th>Horizon, m</th><th>Occurrence depth, m data: our/drilling</th><th>Gas pressure, atmospheres data: our/drilling</th></tr><tr><td>h_1</td><td>544 – 584/ 535 - 595</td><td>10 – 20 / 16</td></tr><tr><td>h_2</td><td>974 - 1043/ 906 - 1020</td><td>15 – 20 / 92</td></tr><tr><td>h_3</td><td>1272 - 1317/ 1266 - 1324</td><td>18 – 20 / -</td></tr><tr><td>h_4</td><td>1753 - 1857/ 1794 - 1808</td><td>150 – 160 / 164</td></tr></table></td></tr>
<tr><td>6</td><td>Nigeria
2011</td><td>Block OPL-452 with an area of 200 sq. km
Revealed 3 gas deposits in two horizons with a total area of 21 km2.
Estimated forecast resources</td><td>  </td></tr>
</table>

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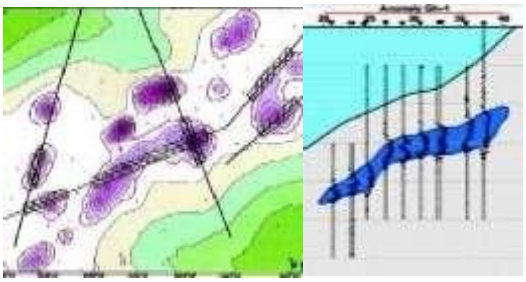
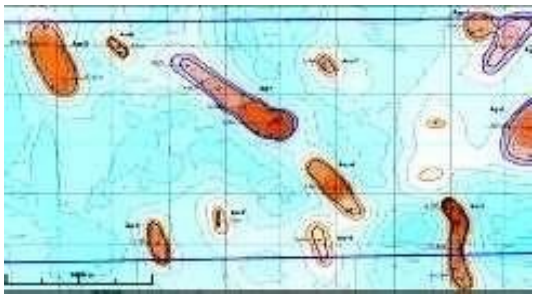
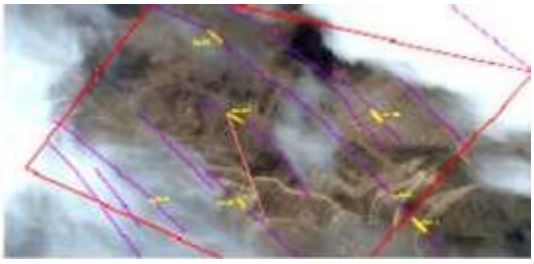
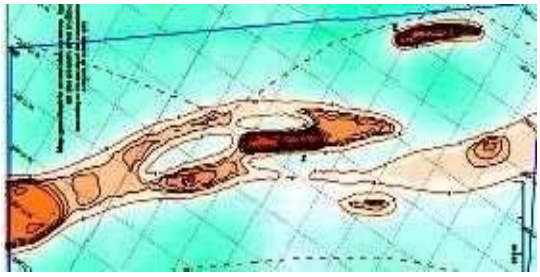
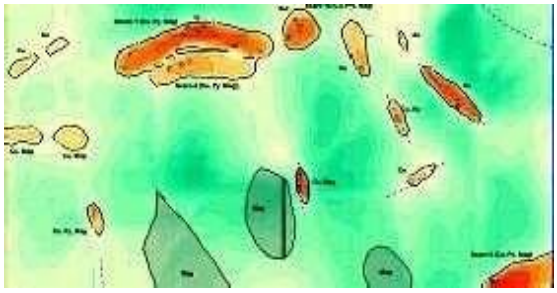
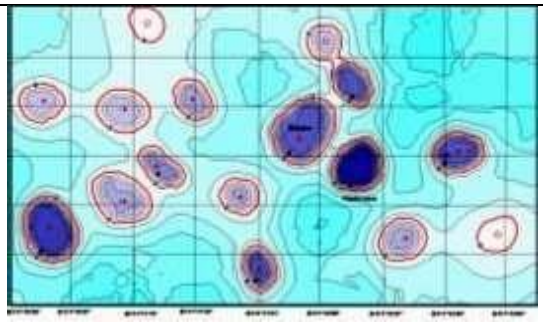
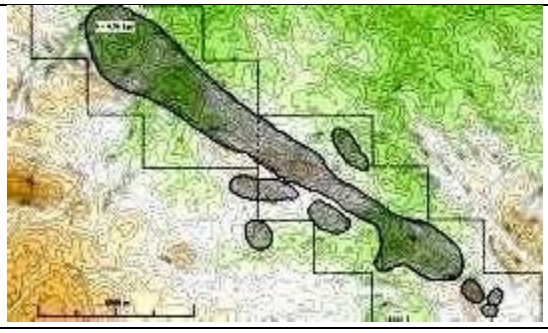
7	**Ukraine** 2012	A survey of the Shetland Islands (Antarctica region) was carried out. A group of gas hydrate deposits has been identified. Deep section of a large deposit	
8	**Ukraine** 2013	The territory f the Kiev region was examined. Revealed 5 promising natural gas deposits located in the DE compacted zones of the granite basement	
9	**Russia** 2013	The northern part of the territory of the Saratov region with an area of 12 thousand square kilometers were examined	Identified, delineated and explored in detail natural gas deposits

Minerals

№	Country	Context of work	Results of work
1	**Ukraine** 2006 -2007	Survey of uranium ore sites at Inguletskoye, Smolinsky and Lesnoye deposits.	The obtained data matched the data of 8 drilled wells
2	**Ukraine** 2006 - 2007	Detailed survey of the Smolinsky uranium ore deposit k	3 new uranium ore bodies identified and delineated
3	**Russia** 2008	Regional survey of a coal basin with an area of 3 thousand sq. m	4 deposits of metallurgical coal have been identified and examined. 12 complex coal horizons have been identified.
4	**Mongolia** 2010	Regional and detailed survey of the territory with molybdenum deposits	3 areas of molybdenum ores have been identified and examined. Research results confirmed by drilling

5	**Madagascar** 2014	Regional and detailed survey of an area of 12.5 sq. km Revealed 3 gold deposits, as well as silver deposits	
6	**Kyrgyzstan** 2016	A gold-bearing site with an area of 1 sq. km. Quartz veins with gold content identified and positioned	
7	**Ecuador** 2017	A gold-bearing site with an area of 1 sq. km. Ore and alluvial gold deposits identified	
8	**Iran** 2017	An area of 50 sq. km was examined. Revealed 5 deposits of skarn and vein copper, as well as 2 deposits of gold	
9	**Yakutia, South Africa** 2018	Kimberlite pipes have been identified and outlined. Determined the presence of diamonds in the identified kimberlite pipes	
10	**Congo** 2020	Regional survey of an area of 38 sq. km within the "copper belt" of southern Africa. 7 copper deposits of various mineralization were identified	

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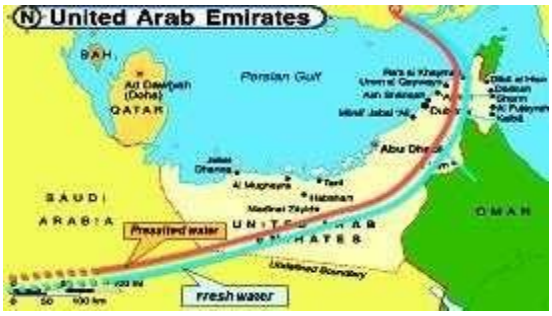
Evolution des technologies en Exploration-Production

1883	Theorie de l'anticlinal		1ère période 1860-1930
1900's	Forage Rotary		
1914	Sismographe		Explo.à partir des affleurements et des indices de surface
1924	Log de puits	1° qualités des roches et des fluides	
1930's	1° puits en "mer"	Extension au domaine maritime (> 10m)	
1930	Sismique ponctuelle	Imagerie 1D Subsurface	
1930's-1940's	Géophysique	Généralisation de la 1D	2ème période 1930-1950's
1950's	Biostratigraphie Sismique et de logging	Corrélations et datations géologiques précisées Amélioration des outils	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	3ème période 1950's-1970's Exploration « semi-calibrée »
1970's	2D migration (1970) Forage directionnel Rock Eval	Sismique numérique calibrée Concepts "roche mère et formation des HC" approfondis	4ème période 1970's-1980's Exploration « calibrée »
1977	Analyses stratigraphiques	Amélioration de la prédiction	
1985	Sismique 3D	Meilleure précision des objectifs à forer	5ème période 1980's-1990's " Exploration-Production optimisée"
1985	Système pétrolier	Meilleure définition des zones à potentiel	
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	6ème période 1990's Exploration-Production « rationalisée »

Source : IFP (HM, 2005)

Fresh water

№	Country	Context of work	Results of project
1	**UAE** 2007	Explored the territory of the Emirate of Fujairah with an area of 1,166 sq. км	7 underground fresh water streams identified and delineated
2	**UAE** 2009	The territory of the UAE and adjacent countries has been investigated. The source of the formation of eep underground fresh waters of the Arabian Peninsula is identified.	
3	**Mauritania** 2010	Regional and Detailed Survey of the Western Sahara Desert	A powerful underground flow of fresh water was identified. A well was drilled with a depth of 150 m with a flow rate of 25 l / sec.
4	**Mongolia** 2013	Regional and detailed survey of the Gobi Desert area	Underground fresh water flow was revealed. Well with depth of 300m and flow rate of 7 l/sec was drilled.
5	**Mongolia** 2014	Regional and detailed survey of the site in southwest Mongolia	Drilled well in the area of Dalanzadgad city with a depth of 200m and a flow rate of 7 l/sec.
6	**Cyprus** 2015	Underground fresh water flow was detected & delineated	A 200m deep well with 7 l/sec flow rate was drilled.

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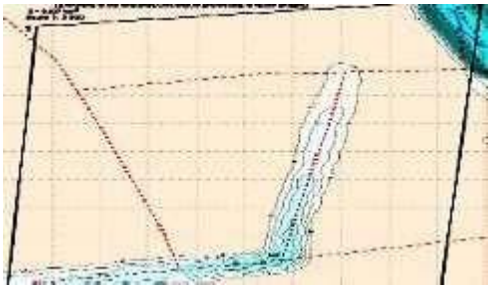
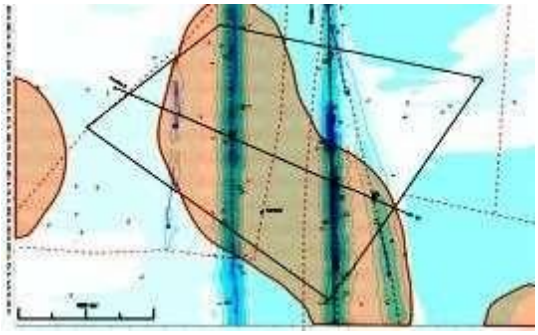
7	**Oman** 2018	Detailed survey of the site in the Wakhiba desert. Underground stream with horizons at depths from 100 to 270m was detected and applied.	
8	**Oman** 2019	Detailed survey of the site in the Wakhiba desert. Underground flow with water horizons at depths from 95 to 260m was detected and applied.	
	USA 2019	Regional survey of the territory of the State of California with an area of 10,000 square kilometers. Identified 2 natural sources of underground fresh water in the area of San Francisco and Los Angeles. 7 powerful streams of underground fresh water were identified	
11	**Ukraine** 2007 - 2019	Over 1,200 sq. km of various plots were surveyed	Over 120 wells were drilled. Maximum depth of wells is 950m with 7 l/sec flow rate.

Mineral resources map of the region

№	Country	Context of work	Results of work
1	**UAE** 2006	The territory of Fujairah Emirate with the area of 3600 sq. km was explored.	Deposits of nickel, platinoids, oil, kimberlite pipes were identified and delineated.

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