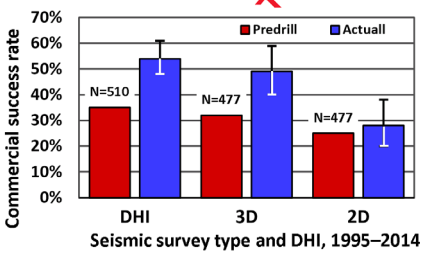
DEPROIL

DETAILED OIL & GAS PROSPECTING

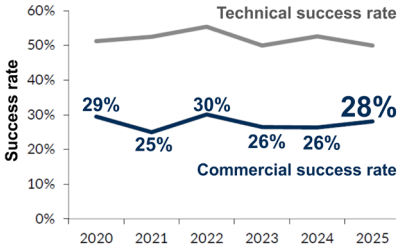
- 89 PROJECTS AT THE AREA OF 700,000 KM²
- 84 NEW WELLS, 51 WITHIN THE POOLS (61%)
- 44 COMMERCIAL WELLS WITHIN THE POOLS. COMMERCIAL SUCCESS RATE 86-100%
- 12 COMMERCIAL WELLS OUTSIDE THE POOLS. COMMERCIAL SUCCESS RATE 16-36%

CURRENT SEISMIC PARADIGM

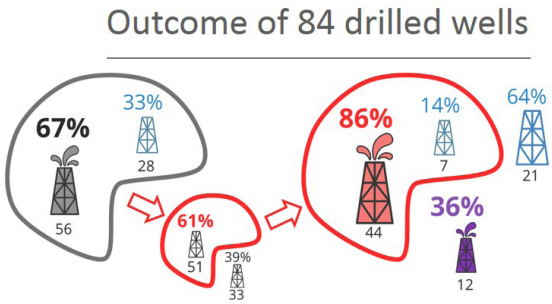
ExxonMobil

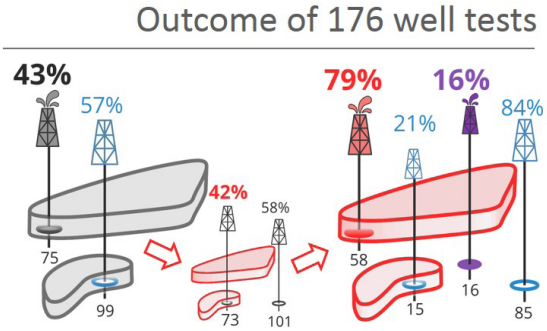


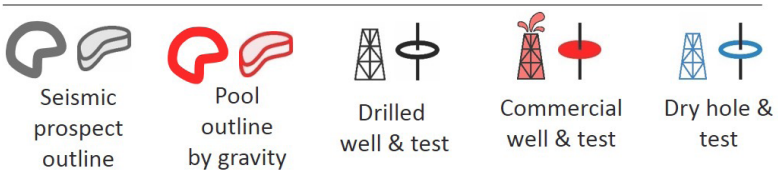
Westwood Global Energy Group



NEW GEOLOGICAL PARADIGM







DIRECT COMMERCIAL HYDROCARBON POOL MAPPING

DEPROIL

DETAILED OIL & GAS PROSPECTING

Scientific and technical company DEPROIL Ltd. since 1991 has been cooperating with Ukrainian and international oil and gas companies, providing geophysical services for oil and gas exploration, appraisal and development of oil and gas fields, and underground gas storage monitoring.

Over 30 years of scientific reserach and 20 years of industrial application have been implemented into proprietary technology of "Mapping of commercial hydrocarbon pools of different morphology and origin before drilling" and GCIS (Geophysical Complex Interpretation System, 1989) software, which provides for joint regularization-free geologically meanigful 3D inversion of gravity, well-log, and seismic data. During this time, DEPROIL Ltd. has completed 89 projects of mapping commercial hydrocarbon pools covering an area of over 700,000 km^2. A total of 138 commercial pools with resources of 251 million tons of oil equivalent have been mapped. Drilling of 177 wells has been proposed.

Technology's accuracy has been validated by 176 well tests in 84 wells across 25 license areas, demonstrating a commercial success rate of 86–100%. The drilling results demonstrated that the estimates accuracy of commercial pools' properties reaches 68–84% for density with a relative error of 1.7–2.5%; 85–90% for porosity and saturation; 86% for recoverable reserves; and 85% for initial production rate.

GLOBAL SOLUTION FOR QUANTITATIVE MAPPING OF COMMERCIAL HYDROCARBON POOLS

Solotvyno and Dibrivka gas fields. "Dry" wells №23 (2005) and №28 (2011) and producing well №15 (2012) confirmed the location of subsult gas reservoirs, mapped in 3D density model in 2005. CSR - 100%.

Oil field named after Academician Shpak. Well №110 (2013) discovered the oil reservoir, mapped in the 3D density model in 2012. CSR - 100%.

Jamsovej gas field. Time-lapse on-land gravity survey of 1998 and 2008, and borehole gravity measurements of 2011 has been used for creation of 4D model of gas reservoir (1 meter depth resolution), identifying local areas of pressure drop and gas-water contact rise within the reservoir in Cenomanian formation.

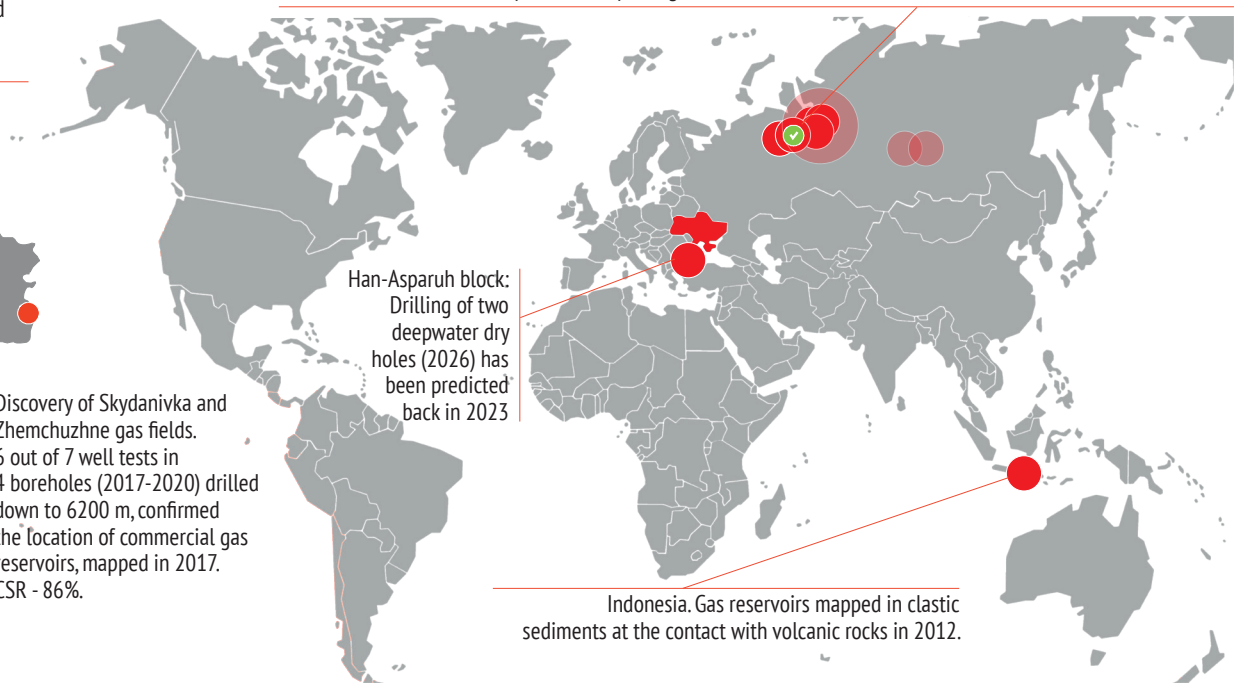
Sadzgava gas field discovery, 2023.3 commercial wells. CSR 100%

Giant "Flounder" prospect: Cretaceous deepwater fan within the ultra-deepwater and continental slope offshore the Black Sea, mapped in 2007. Estimated GIIP is 2.1 TCM. POS - 86%

Subbotina oil field. "Dry" well №3 (2012) confirmed tight reservoir, mapped in the 3D density model in 2011. CSR - 100%.

Discovery of Skydanivka and Zhemchuzhne gas fields. 6 out of 7 well tests in 4 boreholes (2017-2020) drilled down to 6200 m, confirmed the location of commercial gas reservoirs, mapped in 2017. CSR - 86%.

Han-Asparuh block: Drilling of two deepwater dry holes (2026) has been predicted back in 2023



Indonesia. Gas reservoirs mapped in clastic sediments at the contact with volcanic rocks in 2012.

- **REGIONAL - mapping areas of increased concentration of commercial hydrocarbon pools within oil and gas basins for licensing and further prospecting**
- **EXPLORATION - mapping commercial hydrocarbon-bearing pools within licenses and their ranking by the volume of total and recoverable reserves and initial production rate of new wells**
- **DEVELOPMENT - mapping production-induced changes within hydrocarbon reservoirs: pressure drop, gas saturation change, gas-water contact rise, identification of the unswept zones**
- **MONITORING - mapping operation-induced changes in the reservoir system of a hydrocarbon field or an underground gas storage: change of pressure, gas saturation, location of dynamic gas reservoirs, gas pathways**

Technology development:	1974	1984	1989	2000	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
	IDEA	KARPATY	ELENA-2D	GCIS-2D		GCIS-3D				GCIS-4D		GCIS-4D+1D						Resources (Monte Carlo)	3D density of resources	Total and recoverable reserves		Initial production rate
Basin study:																						
Total area (628 490 km^2)					90 180	2 988	67 124		30 000		104 717	67 131	247 866	491	17 933							
Number of projects (21)					1	1	3		1		3	5	3	1	3							
Exploration & production:																						
Total area (72 430 km^2)			10	168	2 295	147	6 579	23 509	11 285	15 949	1 495	675	934	2 268	878	655		532	1 350	721	1 025	1 955
Number of projects (69)			1	1	8	1	5	7	7	8	3	2	6	4	3	2		1	4	2	1	3
High-precision observations:																						
3D gravity survey												618	996	756	738	606	312	715	467	753	1 022	110
Total area (7 093 km^2)												1	3	4	4	3	2	5	2	2	3	1
Number of projects (24)																						
3D magnetic survey													423	903	564	401	63	620	489	699	946	186
Total area (5 295 km^2)													1	3	3	2	1	4	2	2	3	1
Number of projects (18)																						
Results & recommendations:																						
Hydrocarbon resources: gas, bcm / oil, million tons (175.9 BCM of gas and 18.4 M t of oil)									2100 / 0										16,2 / 0	40,2 / 0	8,9 / 0	129,5 / 18,4
Recommended wells (177)								4	21	1	1	7	5	14	6	15			13	5	5	41
Confirmation by drilling:																						
Name of the license					Western Lukva		Gashyniv		Chertizh Mykulychyn Western Vilshany		Dobrjany South Bushtyno		Bogatojka Buchach Lischyny Solotvyno	Orohovychi-Dubanevychi Mykytyntsi Subbotina		Krasnyi Kut	Hersevanivka Novomeche-bylivka	Budyshchany Chutovo	Suhodil Dashava Ostroverhivka	Mehedivka Holotovshchyna Vasyshchi Svyrydivka	Yuzivska	Kosachi	North Skvortsi Skydanivka Khorosheve Olyshivka	Tyniv Machukhy	Zhdenievo	Marchenky Tarhanivka Rozpashna Novoukrainka Western Novoukrainka
Wells (89) / Well tests (170)			1 / 1		5 / 5		10 / 11		8 / 21			10 / 43	19 / 52			5 / 6	2 / 3	1 / 1	2 / 2	5 / 5			6 / 9	6 / 5	1 / 2	
Well tests confirmed the prognosis (146)			1		3		11		18			42	33			4	2	1	2	5			8	4	2	
Actual commercial succes rate (CSR) of mapping hydrocarbon reservoirs (86%)			100%		60%		100%		86%			98%	63%			67%	67%	100%	100%	100%			89%	80%	100%	
Discovered fields (5)													Chkaliv				Medvezhe	Academic Shpak						Zhemchuzhne	Skydanivka	

OUR CLIENTS:

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