

Reconsidering our views on the fully formed world of modeling technologies. We try to make it more convenient, flexible to the specialists' enquiries.

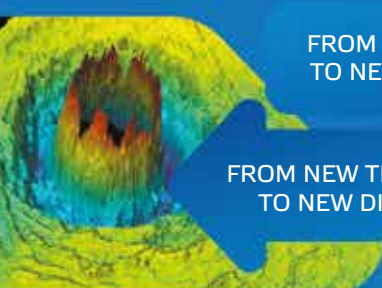
INGEOSERVICE LLC is one of the leaders in the Russian market of services in the field of geological and geophysical modelling and a developer of specialized software.

Resource Modelling (RM)[®] is a specialized software for estimating resources and calculating reserves of oil, gas and gas condensate fields.

IMPORTANT TOOL IN THE OPERATION FOR:

geologists | geological modelling specialists |
resource and geological hazard assessment
specialists | estimation reserves specialists.

**RESOURCE MODELING (RM)[®]
IS SUCCESSFULLY APPLIED
IN GEOLOGICAL EXPLORATION.**



FROM NEW KNOWLEDGE
TO NEW TECHNOLOGIES

FROM NEW TECHNOLOGIES
TO NEW DISCOVERIES

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IngeosRM

HC resource modeling

Resource Modelling (RM)[®] - estimating resources and calculating reserves of oil, gas and gas condensate fields in accordance with Russian and foreign standards

Patent No 2022668857 dated on October 12, 2022
Unified register No 16980 dated on March 21, 2023



10 ADVANTAGES OF THE RESOURCE MODELLING (RM)[®]

01

Estimation of resources of all types of hydrocarbon fluid – oil, gas, gas condensate and their combinations

02

Estimation methods accepted in Russia and abroad - probabilistic estimate, volumetric and other deterministic methods

03

With stochastic simulation by Monte-Carlo method, hundreds of thousands models are formed in real time (less than 1 minute), allowing to obtain reliable probabilistic estimates of the analyzed parameters

04

The possibility of statistical models building using theoretical dependencies with a minimum of a priori information, as well as taking into account a priori information on ideal analogues

05

Ability to take into account functional and correlation relationships between parameters

06

Obtaining probabilistic estimates taking into account geologic hazards

07

Probability estimation of successful development of multilayer objects and areas with several hydrocarbon reservoirs

08

Presentation of work results in the form of tables and graphs. Export formats allow using the results obtained in reports

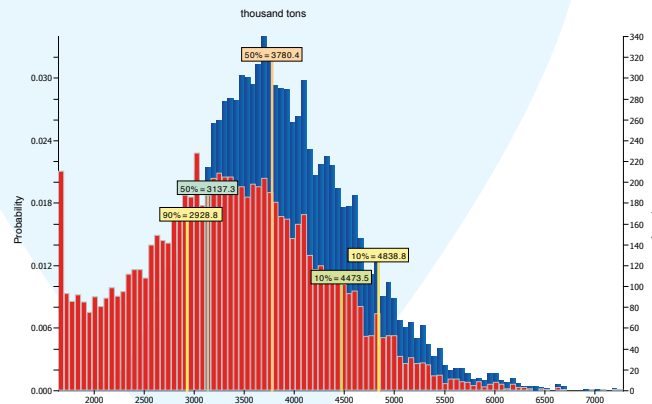
09

The ability to save work sessions and restore them for further analysis. Russian and English languages of the interface and the resulting materials

10

Continually changing and technical support of the software, including the custom programming upon users requests

GEOLOGICAL OIL RESOURCES



STOCHASTIC SIMULATION BY MONTE-CARLO METHOD

	Unit	Distrib.	Min	Max	P90	P50	P10
Productive Area	sq.km	uniform	10	20	11,01	14,99	19,01
Net Pay Thickness	m	lognormal	1	5	1,4	1,9	2,9
Porosity		normal	0,12	0,18	0,14	0,15	0,16
Oil Saturation		normal	0,3	0,4	0,33	0,35	0,37
Oil Gravity	g/cub.sm	normal	0,8	0,96	0,849	0,88	0,911
1/FVF		normal	0,5	0,88	0,616	0,69	0,764
Oil Recovery Factor		normal	0,5	0,7	0,561	0,6	0,639
GOR	cub.m/ton	normal	100	200	130,4	149,9	169,4
Oil Saturated Rock Volume	MMcub.m				18,7	28,4	45,4
risk-adjusted	0	21,7	40,6				
OIIP	Mtons				579,4	900,2	1469,4
risk-adjusted	0	675,5	1311,1				
Recover. Oil Reserves	Mtons				345,7	539,5	885,4
risk-adjusted	0	404	788,9				
Initial Associated Gas in Place	MMcub.m				84,8	134,6	222,7
risk-adjusted	0	99,7	198,3				
Recover. Associated Gas Reserves	MMcub.m				50,6	80,7	134,1
risk-adjusted	0	59,6	119,1				

1 ton = 1366.30 bbl (standard conditions - 20C, conversion temperature - 60F)