77-871

SAMOTLOR OILFIELD

Plate 1

Stratum	Stage	Formation	Depth interval	Local uplifts: Samotlor	Martov	Belozer	Mykhpay	Malosamotlor	Pavy	Lithology	Facies changes	Seal	Porosity %	Permeability md	Formation pressure kgs/cm²	Formation temperature °C	Gas-oil ratio m³/m³	Saturation pressure of gas in oil kgs/cm²	Level of water-oil contact	Height of pool, m	Net pay, m	Initial production, m³/day (choke)	Closure, m	Specific gravity, g/cm³	Sulfur, % wt	Nitrogen, % wt	Tars, % wt	Asphalt, % wt	Paraffin, % wt	Paraf. melting, °C	Boiling, °C	200°C Distillate, % vol. to 300°C	Average daily production per well, tons/day	Viscosity of oil, cp, under formation conditions
PK_1	Cenomanian	Pokur (top)	1610-1780	X																			50											
AV_1	Aptian	Alym (bottom)	1610-1780	X	X	X	X	X	X	Sandstones with clays and siltstones	To impermeable on Samotlor local uplift	20-25 m clay	23-28, av. 24	Av. 86	172	63	98.3	170	-1693	145	15.6	60 (6 mm)	100	0.809-0.887	0.82	0.14	8.28	0.91	2.50	52.5	78	23.5	47.0	2.4	1.60
AV_{2-3}	Barremian	Vartov (top)	1640-1760	X	X	X			X	Alternating sandstones, clays, and siltstones	To impermeable on Samotlor local uplift	2-5 m green clay	Av. 22	Av. 470	169-182	57-62	160	97	-1693	100-108	9.5	66-137 (8 mm)	100	0.757-0.880					2.70					16.4	1.71
AV_{4-5}	Barremian	Vartov (top)	1685-1748	X	X	X	X	X	X	Sandstones with clays		20-40 m clay	19-29, av. 22	Av. 510	169	65	162	86	-1693	55-63	15.0	93-162 (8 mm)	100	0.788-0.883	0.85				3.50					19.4	1.97
AV_6	Hauteriv	Vartov (top)	1793-1798							Sandstones with clays and siltstones			Av. 25		174	62				10	5	58 (8 mm)	100											
BV_8	Valanginian	Megion (top)	2020-2140	X	X	X			X	Sandstones with clays and siltstones		5-8 m clay	17-25, av. 18	Av. 114	210-218	65-75	70-100	100-110	Inclined at -2071 to -2076	110-115	30	100-200 (3 mm)	100	0.834 0.865	0.76	0.14	6.86	0.70	4.42	50.0	62	28.0	50.0		1.01
BV'_{10}	Valanginian	Megion (middle)	2125-2220	X	X	X	X	X	X	Sandstones with clays	Replaced by clay toward northwest on flank of Martov uplift	60-70 m clays	21-26, av. 21	Up to 500 Av. 135	220	75	100	100-110	Inclined at -2152 to -2157	95-100	25	52-160 (8 mm)	100		0.58	0.13	5.56	0.64	2.51	53.0	59.5	31.0	55.2	3.5	0.88
BV_{10}	Valanginian	Megion (middle)		X		X	X																											
BV_{11}	Valanginian	Megion (middle)	2150-2230	X						Sandstones with siltstones and clays	Replaced by clays to northwest and northeast	5-6 m clay	21-26 Av. 18	Up to 500 Av. 89			82.9		-2167		20-25													

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