

Задание: Name the main advantage of drilling with downhole motors.

Ответы:1). increase in hydraulic power of pumps 2). increased mechanical drilling speed 3). increased flow rate of flushing fluid 4). reduction of labor intensity of drilling processes

Задание: The equipment designed to secure the walls of the well during drilling does not include

Ответы:1). fountain fitting 2). drill pipes 3). equipment for preparation, processing, cleaning of washing solution

Задание: How are natural gas gathering systems categorized by pipeline configuration

Ответы:1). ring collection system 2). individual collection system 3). beam collection system 4). centralized collection system 5). collectorless collection system 6). linear collection system 7). vacuum collection system 8). collection system

Задание: What is the reason for the increased vibration of the pumping unit

Ответы:1). Vibration of pipelines 2). Unit misalignment 3). All below answers 4). Increased clearances in pump bearings 5). Worn bearing

Задание: Rocks are divided into groups according to their origin

Ответы:1). superficial, deep 2). endogenous, exogenous 3). Magmatic, sedimentary, metamorphic

Задание: The viscosity of oil is independent of

Ответы:1). production volume 2). content and condition of asphalt-resin substances 3). on the composition and nature of the dissolved gas 4). content and state of high molecular weight paraffin hydrocarbons

Задание: What was the name of the first petroleum product that mankind was introduced to

Ответы:1). kerosene 2). gasoline 3). oil 4). asphalt

Задание: According to the theory of I.M. Gubkin, the initial for the formation of oil are

Ответы:1). from the waste products of an ancient paleocivilization. 2). organic matter of marine muds, consisting of plant and animal organisms 3). chemical reaction of water and iron carbide

Задание: Which of the following methods are not permeability enhancement methods

Ответы:1). torpedoing 2). gas injection into the gas cap of an oil reservoir 3). heat treatment 4). contour flooding 5). sand jet perforation 6). hydraulic fracturing 7). treatment of bottomhole formation zone with surfactants 8). flooding 9). vibration impact 10). acid treatment 11). in-situ flooding

Задание: What parameter is calculated to control stresses in borehole walls?

Ответы:1). mud density 2). mud viscosity 3). mud flow rate 4). static shear stress

Задание: The gas factor of reservoir oil shows

Ответы:1). ratio of the volume of released equilibrium oil gas to the volume of degassed oil obtained from reservoir oil in the process of its degassing 2). Volume of degassed oil obtained from reservoir oil in the process of its degassing 3). Volume of released equilibrium oil gas

Задание: What is not a diamond point bit designed for?

Ответы:1). for drilling the cement in the borehole 2). for drilling out the casing bottom equipment 3). for preparing the bottom of the well for trapping operations 4). for milling metal objects downhole

Задание: Which wells are drilled with continuous coring?

Ответы:1). exploration wells 2). production wells 3). parametric wells 4). support wells

Задание: What is rock hardness?

Ответы:1). compression resistance 2). indentation resistance 3). shear resistance 4). tensile resistance

Задание: Theories of the origin of oil and gas

Ответы:1). terrestrial and cosmic 2). organic and inorganic 3). internal and external

Задание: Which one of the following is not an indication of a kick?

Ответы:1). decrease in pump 2). increase in flow rate 3). pit gain 4). decrease in pump stroke

Задание: How far can a pressure oilfield gathering system transport gas-saturated oil in a single-phase state to a central gathering point

Ответы:1). up to 100 km 2). up to 10 km 3). up to 1 km 4). up to 7 km

Задание: Which of the following component of a drill string is used to put weight on the drill bit?

Ответы:1). ball sealers 2). float collar 3). drill collars 4). drilling line

Задание: Rod well pumps are

Ответы:1). docked 2). non-displaced 3). plug-in 4). smooth

Задание: The power required to rotate the bit is calculated by the formula $N = 5,14 \cdot 10^6 \cdot c \cdot D^{0,4} \cdot G^{1,3} \cdot n$. Name which of the parameters is chosen according to the hardness of the rock.

Ответы: 1). D 2). n 3). G 4). c

Задание: Which well gives an answer about the presence of oil in a prospective region?

Ответы: 1). injection well 2). observation well 3). structural well 4). exploration well

Задание: To which rocks are commercial accumulations of oil related?

Ответы: 1). to magmatic rocks 2). to metamorphic rocks 3). to soils 4). to sedimentary rocks

Задание: In the normal process of drilling with an open preventer ?

Ответы: 1). the pressure at the entrance to the drill string is greater than the pressure at the exit of the well 2). the pressure at the entrance to the drill string is equal to the pressure at the exit from the well 3). the ratio of inlet to outlet pressure depends on the drill pump used 4). the pressure at the entrance to the drill string is less than the pressure at the exit from the well

Задание: How many oilfield gathering systems are there

Ответы: 1). three 2). five 3). four 4). two

Задание: The choke line at the wellhead is located ?

Ответы: 1). above the rotor 2). above the preventers 3). under the preventers 4). above the lead pipe

Задание: The most common method of bottomhole equipment

Ответы: 1). open cut 2). Bottomhole overlapped by the column shank, perforated before its descent 3). perforated face 4). downhole equipped with a filter

Задание: What is not included in the auxiliary tools for drilling

Ответы: 1). drill locks 2). drill pipes 3). the centralizer 4). chisels

Задание: According to the trajectory of drilling wells are divided into

Ответы: 1). gentle 2). worshipful 3). inclined 4). oblique

Задание: There are different types of tubing

Ответы: 1). smooth 2). docked 3). non-displaced 4). plug-in

Задание: Which of the following vessels are not subject to the requirements of these Rules

Задание: Ответы: 1). Vessels and cylinders with a capacity of not more than 0.025 cubic meters (25 liters), which have the product of pressure in MPa (kgf/ sq cm) for a capacity in cubic meters (liters) does not exceed 0002 (200) 2). All below answers 3). Vessels operating under pressure created by an explosion inside them in accordance with the technological process 4). Vessels operating under vacuum

Задание: When the temperature rises, the corrosion rate

Ответы: 1). Decreases 2). Nothing changes 3). Increases

Задание: 2. Which of the following drilling machine can rotate in all three axis (x, y and z)?

Ответы: 1). all of the above 2). radial drilling machine 3). portable drilling machine 4). pillar type drilling machine

Задание: _____ is provided in drill for the passage of chips and cutting fluid.

Ответы: 1). clearance 2). shank 3). flutes 4). tang

Задание: What is the speed range of the rotor?

Ответы: 1). 110 300 rpm 2). 450 680 rpm 3). 300 450 rpm 4). 45 110 rpm

Задание: Underground equipment for well construction does not include

Ответы: 1). blowout preventer 2). drill pipes 3). packers 4). rock-destroying tool

Задание: What is differential downhole pressure?

Ответы: 1). difference of pressure in the well at the bottom hole and pressure in the fractures at the bottom hole 2). the sum of downhole pressure during drilling and formation pressure 3). difference between drilling fluid hydrostatic pressure and formation pressure 4). the difference between the downhole pressure at the bottom of the well while drilling and the formation pressure

Задание: Name the main disadvantage of rotary drilling.

Ответы: 1). difficulties in controlling the drilling mode 2). increased pressure of flushing fluid 3). increased flow rate of flushing fluid 4). increased wear of drill pipes

Задание: What is the main disadvantage of the hydro monitor bit flushing system?

Ответы: 1). hydrodynamic impact on the bottom hole 2). cleaning of cutters from sticking rock 3). cooling of armour and roller cone bearings 4). organisation of fluid flow in the bottom hole zone

Задание: The main components of oil are

Ответы: 1). sulfur compounds 2). nitrogenous compounds 3). soot 4). hydrocarbons

Задание: The fountain tree is not intended to

Ответы: 1). installation of pressure gauges, thermometers and devices for lowering-lifting of depth gauges 2). casing top connections 3). well flow control 4). regulation of well flow parameters

Задание: What was the use of oil in ancient Babylon

Ответы: 1). Embalming the dead 2). Binder in construction 3). Medicinal product 4). Room lighting

Задание: What is the purpose of a separator

Ответы: 1). degassing to separate gas from oil 2). dehydrations 3). separation of light fractions from oil 4). desalting

Задание: What value is measured when determining the "abrasiveness" parameter?

Ответы: 1). hardness of rock minerals 2). metal wear rate 3). rock destruction rate 4). surface hardness of the wear metal

Задание: Which drilling rig system includes a crown block?

Ответы: 1). hoist system 2). flushing system 3). drilling process control system 4). anti blowout equipment system

Задание: What is the purpose of the drilling fluid?

Ответы: 1). To support the weight of the drill string 2). To cool and lubricate the drill bit 3). All of the above 4). To remove cuttings from the wellbore

Задание: Who is the author of the organic origin of petroleum

Ответы: 1). D.I. Mendeleev 2). K.E. Tsiolkovsky 3). I.M. Gubkin 4). H. D. Zelinsky

Задание: Identify the missing word in the following definition: Petroleum is a naturally oily, flammable liquid with a specific odor, consisting mainly of a complex mixture of _____ of different molecular weights and some other chemical compounds

Ответы: 1). Organic compounds 2). Parafinov 3). Asphalt 4). Hydrocarbons

Задание: What is a swivel for?

Ответы: 1). for shutting off a well with a raised drill string 2). for shutting off a well with a lowered drill string 3). for ensuring fluid circulation in the drill string 4). for transmission of torque from the rotor to the drill string

Задание: SPAR Platforms are used only

Ответы: 1). in the northern arctic zones 2). at great depths 3). at shallow depths 4). in calm waters

Задание: Where the killing line is located at the wellhead?

Ответы: 1). under the preventers 2). above the preventers 3). above the rotor 4). above the leading pipe

Задание: What is a characteristic feature of a high-pressure, single-pipe oilfield gathering system

Ответы: 1). joint transport of well products over several tens of kilometers due to high wellhead pressures 2). Reduction of energy costs due to gravity flow of the fluid 3). single-pipe transportation of oil and gas to district separation units and transportation of gas-saturated oil in a single-phase state to the central gathering point

Задание: How many stages does the oil and gas extraction process involve

Ответы: 1). two 2). one 3). three

Задание: The power required to rotate the bit is calculated by the formula $N = 5,14 \cdot 10^6 \cdot c \cdot D^{0,4} \cdot G^{1,3} \cdot n$. Name which parameter(s) characterize the bit.

Ответы: 1). c и D 2). G и n 3). c 4). D

Задание: Rock cutting mechanisms of drag bits are primarily by

Ответы: 1). scraping and grinding actions 2). crushing action 3). twisting action 4). wedging action

Задание: What parameter is calculated to ensure mud removal from the well?

Ответы: 1). mud density 2). mud viscosity 3). mud flow rate 4). static shear stress

Задание: At what weight of the lid of the pressure vessel must be equipped with a lift-and-turn or other device for opening and closing it

Ответы: 1). With a hatch mass of more than 30 kg 2). With a hatch mass of more than 20 kg 3). With a hatch mass of more than 40 kg

Задание: Recoverable reserves are the part of geological reserves that can be extracted from the subsurface _____

Ответы: 1). rational use of modern technical means in production technology, taking into account the acceptable level of costs and compliance with requirements for the protection of subsurface resources and the environment 2). using mechanized mining method 3). using the fountain method of extraction 4). for the entire period of field development

Задание: If the technical conditions do not specify a specific value for the temperature of the hydraulic test of the vessel, then under what conditions is the test carried out

Ответы:1). At any condition 2). Not lower than 2 °C and not higher than 50 °C 3). Not lower than 5 °C and not higher than 40 °C

Задание: At what pressure well products are separated at gravity two-pipe system of oil gathering at oilfields

Ответы:1). 10 MPa 2). 1-5 MPa 3). 0.6 MPa 4). 3 MPa

Задание: What is the "depressurizing pressure" of the flushing fluid at the bottom of the well while drilling?

Ответы:1). the difference between bottom hole pressure and fracture pressure at fracture depth 2). difference of pressure on the bottom hole of the flushing fluid and geostatic pressure 3). difference between drilling fluid pressure and lateral rock pressure 4). the difference between bottom hole pressure during drilling and formation pressure

Задание: Oil with a density below 830 kg/m³ is called

Ответы:1). light 2). average 3). heavy

Задание: How many groups (series) are second class roller cone bits divided into according to the International Association of Drilling Contractors (code IADC) system?

Ответы:1). five 2). three 3). one 4). four

Задание: In the borehole of wells operated by submersible electric submersible centrifugal pumps are

Ответы:1). submersible motor 2). rocker 3). check valve 4). multistage pump

Задание: To which well operation method does an airlift belong

Ответы:1). fountain 2). uncompressed 3). compressor 4). nasal

Задание: What is a drill head coring factor?

Ответы:1). the ratio of the diameter of the drill head to the diameter of its coring hole 2). the ratio of the diameter of the coring device body to the diameter of the core tube 3). the ratio of the core length to the length of the drilled interval 4). the ratio of the inner diameters of the core barrel and the core pipe

Задание: How long is it allowed to operate a vessel with a faulty safety valve

Ответы:1). Allowed for weeks 2). Allowed for months 3). Not allowed

Задание: What is the procedure for conducting hydraulic testing of vessels with a protective coating or insulation

Ответы:1). After coating or insulation is applied 2). During coating or insulation is applied 3). Before coating or insulation is applied and It is allowed to subject enamelled vessels to hydraulic pressure testing after enamelling

Задание: For what purposes was oil used in ancient Egypt

Ответы:1). In cosmetics 2). For lighting 3). When heating 4). When embalming the dead

Задание: Which of the following is NOT a part of the drilling rig?

Ответы:1). Power plant 2). Derrick 3). Kelly 4). Mud pump

Задание: Which vessels are subject to hydraulic testing after their manufacture

Ответы:1). Only intended for operation at temperatures above 450 deg C 2). All vessels 3). Only related to the 1st and 2nd groups 4). Only designed to work under a pressure of more than 1.6 MPa (16 kgf/ sq cm)

Задание: What is not included in the well construction cycle?

Ответы:1). dismantling of the drilling rig 2). carrying out geological exploration 3). drilling and casing of wells 4). construction of a drilling rig

Задание: Why do you need a topping tank on a drilling rig?

Ответы:1). for filling the drill string during drilling 2). for filling the receiving tank 3). for filling the well during lowering and lifting operations 4). for filling the drill string during tripping operations

Задание: What causes corrosion of metals and alloys

Ответы:1). stabil 2). all of the above 3). insubmersibility 4). Which of the following factors affect the installation performance of the offshore vessels? 5). buoyancy

Задание: The anti blowout equipment includes ?

Ответы:1). drilling pump 2). lead pipe 3). swivel 4). preventer

Задание: A measure of how rapidly the teeth of a milled tooth will wear when drilling the formation is known as

Ответы:1). corrosiveness 2). fleet angle 3). journal angle 4). abrasiveness

Задание: Following drilling machine can drill numbers of workpiece at a time

Ответы:1). gang drilling machine 2). multi station drilling machine 3). all of the above 4). pillar type drilling machine

Задание: Which gas makes up the majority of natural gas

Ответы:1). methane 2). ethane 3). propane 4). butane

Задание: Where was rotary drilling first used

Ответы:1). U.S. 2). Venezuela 3). Arab Emirates 4). Russia

Задание: What information do the three digits of the International Association of Drilling Contractors code (code IADC) reflect?

Ответы:1). bit body reinforcement 2). bit design 3). application area 4). bit size

Задание: The cause of corrosion is such instability of structural materials to the effects of substances in contact with them

Ответы:1). static 2). thermodynamic 3). structural

Задание: The equipment designed to secure the walls of the well after drilling does not include

Ответы:1). emergency response tool 2). casing pipes 3). cementing units 4). rappelling complex 5). cement mixing machines

Задание: Methods not used for gas drying

Ответы:1). cooling 2). adsorption 3). degassing 4). absorption

Задание: The functions of drilling pumps include

Ответы:1). Degassing of drilling mud from drilled rock 2). drill pipe cooling 3). Injection of drilling mud into the well to clean the bottom hole and borehole from the drilled rock and bring it to the surface 4). actuation of downhole hydraulic motors 5). cooling of cutting tools

Задание: It does not participate in the process of rock fracture

Ответы:1). casing pipes 2). rock-destroying tool 3). drill pipes 4). winch, rotor, pump 5). downhole motors

Задание: What material was used to make drill pipes in China in 200 BC

Ответы:1). bamboo 2). metal 3). steel 4). aluminum

Задание: What is the purpose of the oil stabilization process

Ответы:1). oil degassing 2). reduction of oil losses during its further transportation 3). particle removal

Задание: What is the unit of measure for a centrifugal pump

Ответы:1). percent 2). m Art 3). cubic m / time 4). kilowatt

Задание: What is the secondary parameter for the bit mode of operation in rotary drilling?

Ответы:1). Torque 2). Bit rotation frequency 3). Flushing fluid flow rate 4). Bit load

Задание: Which of the following drilling machine is suitable for a job with multiple hole

Ответы:1). gang drilling machine 2). all of the above 3). portable drilling machine 4). radial drilling machine

Задание: What is the main source of reservoir energy in the elastic-pressure regime

Ответы:1). elastic forces of water, oil and the rocks themselves, compressed in the subsurface under the action of rock pressure 2). edge (bottom) water head 3). pressure of gas dissolved in oil 4). pressure of gas compressed in the gas cap

Задание: The main industrial method for producing olefin hydrocarbons is

Ответы:1). rectification 2). pyrolysis 3). cracking 4). coking

Задание: For military purposes, in addition to Greek fire, oil was used for

Ответы:1). sabotage 2). intelligence 3). executions 4). to strengthen arrowheads and spearheads

Задание: The equipment designed to remove the products of rock destruction does not include

Ответы:1). rock-destroying drilling tool 2). drill pipes 3). equipment for preparation, processing, cleaning of washing solution 4). downhole motors 5). perforating equipment

Задание: Dehydrogenation is

Ответы:1). the reaction in which one or more hydrogen atoms are separated from the original hydrocarbon molecule 2). a reaction consisting in the addition of hydrogen to hydrocarbons 3). the combination of different or identical simple molecules (monomers) into one giant molecule 4). the direct effect of oxygen or air on hydrocarbons

Задание: What do the numbers in the drill head code mean, for example 124.0/52?

Ответы:1). diameter of the drill head and its core forming hole 2). outer diameters of the drill head and the core pipe 3). outer diameters of the drill head and the coring device 4). outer diameters of the drill head and coring head body

Задание: At the fountain method of operation in the wellbore is placed

Ответы:1). submersible motor 2). tubing 3). air and lift tube 4). pump rods

Задание: Who was in charge of drilling the first oil well in the world

Ответы:1). P.P. Shumilov 2). V.N. Semyonov 3). N.I. Voskoboynikov 4). Count Vorontsov

Задание: What is the term for the process of testing the well to see if it contains oil or gas?

Ответы:1). Completing 2). Logging 3). Testing 4). Perforating

Задание: Casing pipes are used for

Ответы:1). for rotating the rock-cutting tool 2). for injection of clay solution 3). transfer of energy flow to the face, lifting rock samples 4). well support after drilling

Задание: What is the term for the process of pumping cement down the drill string?

Ответы:1). All of the above 2). Perforating 3). Fracturing 4). Cementing

Задание: _____ are two large blocks of steel that are designed to close the around the pipe in the well .

Ответы:1). None of the above 2). Pipe rams 3). Shear rams 4). Blind rams

Задание: Drilling wrenches (pipe unscrewing devices) are designed for

Ответы:1). rotating the pipe string in the borehole 2). pipe handling 3). rotational transmission to the rotor 4). assembly of downhole assemblies and engines 5). tool delivery to the bottom hole 6). sinking, extraction of casing 7). wellhead retention 8). tacking 9). mechanization and automation of pipe screwing and unscrewing during downhole operations

Задание: Which of the following natural gas field gathering systems is not a system classified by operating pressure

Ответы:1). high pressure 2). low pressure 3). collectorless 4). medium pressure 5). vacuum

Задание: Which method of bit rotation has the greatest effect of the oppressive downhole pressure?

Ответы:1). Volumetric engine 2). Turbodrill 3). The influence is the same 4). Rotor

Задание: The volume of Russian oil production in 2017 was

Ответы:1). 456 million tons 2). 586 million tons 3). 554million tons 4). 654 million tons

Задание: What is the main condition for the formation of an oil and gas accumulation

Ответы:1). oil and gas migration 2). permafrost 3). formation water availability 4). presence of oil-bearing rocks

Задание: To what time does the first wells were drilled in Russia

Ответы:1). Seventeenth century. 2). X century. 3). IX c. 4). 20th century.

Задание: Which term is not considered when determining the power for rotation of the drill string?

Ответы:1). The power for rotation of drill pipes 2). The power for rotation of the bit 3). The power for rotation of weighted pipes 4). The power for lifting the drill string out of the borehole

Задание: In which drilling method is rotation of the drill string mandatory?

Ответы:1). bottom hole motor drilling 2). rotary method 3). turbine drilling 4). electric drilling

Задание: What is not included in the well flushing stages?

Ответы:1). separation of cuttings from the bottom hole 2). lifting of cuttings along the borehole to the surface 3). removal of cuttings from the bottomhole zone 4). cleaning the flushing fluid from cuttings

Задание: A bend in a formation that points upward with convexity is called

Ответы:1). reservoir roof 2). reservoir base 3). syncline 4). anticline

Задание: Who developed the turbo drill

Ответы:1). N.S. Timofeev 2). A.P. Ostrovsky 3). M.A. Kapelyushnikov 4). N.V. Alexandrov

Задание: List the functions of the swivel

Ответы:1). mud storage 2). free rotation of the drill string 3). drilling fluid delivery through the drilling hose 4). load bearing from the weight of the drill string 5). running drill pipe, casing pipe

Задание: What information is missing from the International Association of Drilling Contractors (code IADC) bit code?

Ответы:1). Armament type and class 2). bearing type 3). bit size 4). flushing system types

Задание: Which of the following is a type of drill bit?

Ответы:1). PDC bit 2). Tricone bit 3). Roller bit 4). All of the above

Задание: What elements of the drill string are absolutely necessary for any kind of well work?

Ответы:1). drill pipes with their connecting elements, lead pipe and weighted drill pipes 2). drill pipes with their connecting elements 3). bottom hole motor 4). drill pipes and lead pipe with their connecting elements

Задание: What is the main method of rock destruction in borehole drilling?

Ответы:1). electro physical 2). thermal 3). plasma method 4). mechanical

Задание: Open-pit mining (in quarries) is of the total coal production

Ответы:1). 66% 2). 18% 3). 40% 4). 82%

Задание: Which is the correct inequality for the moment capacity of drill bits? (m_{III} three cone bit; m_o single cone bit; m_{OK} PDC bit, sharp edged cutters; m_{TK} PDC bit, blunt edged cutters)?

Ответы: 1). $m_{OK} < m_{TK} < m_o < m_{III}$ 2). $m_o < m_{TK} < m_{OK} < m_{III}$ 3). $m_{TK} < m_{OK} < m_{III} < m_o$ 4). $m_{III} < m_o < m_{TK} < m_{OK}$

Задание: The angle measured in degrees between the actual well path at some and at some depth and a vertical line directly below the rig site is called

Ответы: 1). fleet angle 2). journal angle 3). azimuth 4). drift or inclination angle

Задание: The beginning of the development of the oil industry in Russia is considered

Ответы: 1). the XIX century 2). the XX century 3). the XVIII century 4). the XVII century

Задание: Which activities are not part of the well completion process

Ответы: 1). Structural design of the wellbore in the interval of the productive horizon and its isolation from neighboring intervals with water-bearing and permeable formations 2). reservoir studies 3). creation of hydrodynamic connection between the productive horizon and the wellbore 4). transfer of information from the bottomhole to the surface 5). development of productive formations with commercial reserves 6). penetration of productive horizon 7). Determining the current bottom hole position

Задание: Which of the following is measured when determining the "hardness" parameter?

Ответы: 1). shear stresses 2). stress intensity 3). compression stresses 4). contact pressure

Задание: What information is missing in the bit code according to GOST 20692 2003 "Bits cone bits"?

Ответы: 1). type and size of connecting thread 2). types of flushing system and bearing system 3). bit size 4). type and class of armament

Задание: Who is the author of the inorganic origin of petroleum

Ответы: 1). D.I. Mendeleev 2). H. D. Zelinsky 3). I.M. Gubkin 4). K.E. Tsiolkovsky

Задание: In 1848, a French engineer named Fauvel proposed a process that is still used in drilling today. What is this process

Ответы: 1). bit use 2). cementation 3). reinforcing the borehole walls with pipes 4). well flushing

Задание: Identify the missing word in the following definition: Natural gas is a mixture of gases formed _____ by the anaerobic decomposition of organic matter

Ответы: 1). In the refinery 2). On the surface of the Earth 3). Organic compounds 4). In the bowels of the Earth

Задание: No sucker rod pumping wells are placed in the borehole

Ответы: 1). pump rods 2). drill pipes 3). pump 4). tubing

Задание: Balanced individual mechanical drive of a rod well pump is

Ответы: 1). packer 2). fountain tree 3). anchor 4). rocker

Задание: The methods that increase the permeability of the formation and the bottom-hole zone do not include

Ответы: 1). hydraulic fracturing 2). hydrochloric acid treatment of the bottom-hole zone of the formation 3). abrasive jet perforation 4). there is no correct answer

Задание: What is the term for the process of rotating the drill string?

Ответы: 1). Percussion drilling 2). Rotary drilling 3). All of the above 4). Cable tool drilling

Задание: How do single cone bits break rock?

Ответы: 1). by crushing chipping 2). by cutting only 3). by cutting chipping 4). by cutting scratching

Задание: Where is the dead end of the tackle rope attached?

Ответы: 1). to the crown block 2). to the base of the tower 3). to the traveling block 4). to the winch

Задание: How do tricone bits break rock

Ответы: 1). by cutting chipping 2). by cutting only 3). by cutting scratching 4). by crushing chipping

Задание: What is the origin of oil and gas

Ответы: 1). organic 2). combined (inorganic and organic) 3). synthetic 4). inorganic

Задание: The pumping method of oil well operation does not include

Ответы: 1). rod 2). submersible screw 3). rodless 4). compressor

Задание: What elements of the pressure vessel are subject to inspection during the technical examination

Ответы: 1). All below answers 2). verification of compliance of installation, piping with technological pipelines, equipment with instrumentation and safety devices of the vessel with the requirements of design and technical documentation; 3). carrying out visual and measuring control from the internal (if available) and external surfaces of the vessel; 4). control of the wall thickness of vessel elements;

Задание: How many principles of gas purification from mechanical impurities are there

Ответы:1). one 2). three 3). two 4). ten

Задание: Weight indicator shows?

Ответы:1). the load on the bit 2). the load on the rotor 3). the load on the hook 4). the load on the downhole engine

Задание: How are field natural gas gathering systems divided by the degree of centralization of technological processes

Ответы:1). linear collection system 2). individual collection system 3). collectorless collection system 4). centralized collection system 5). group collection system

Задание: Fountain fittings are distinguished by the size of the passage cross-section of the trunk

Ответы:1). from 50 to 150 mm 2). from 250 to 350 mm 3). there is no correct answer 4). from 550 to 750 mm

Задание: What type of drilling is used in the construction of oil and gas wells

Ответы:1). percussive 2). explosive 3). rotational 4). chemical

Задание: What is a manifold

Ответы:1). system of pipes and branches with gate valves and taps 2). wellbore separation device 3). rod pump drive

Задание: What is the name of the surface bounding the formation from below

Ответы:1). reservoir roof 2). syncline 3). anticline 4). reservoir base

Задание: A combustible mixture of liquid hydrocarbons (C 8 to C 15) with a boiling point of +150 to +250 °C, transparent, colorless (or slightly yellowish), slightly oily to the touch, obtained by direct distillation or rectification of oil

Ответы:1). gas oil 2). Kerosene 3). gasoline

Задание: Which coal basin is not Russian

Ответы:1). Gorlovsky 2). Minusinsky 3). Appalachian 4). Lensky

Задание: The standard provides for the production of pump and compressor pipes

Ответы:1). two-seam 2). seamless 3). spiral welded 4). straight-seam

Задание: The hoist system has the following functions

Ответы:1). conversion of rotary motion of the winch drum into translational motion of the hook 2). reducing the tension force of the strings and the end of the rope pulled on the winch drum 3). lifting the column to the candle length 4). maintaining the candles, when screwing with the column during the descent process 5). tool delivery to the bottom hole 6). winding on the drum, winding off the drum and locking the leading string of the hoist rope during well construction process operations

Задание: What factors do not determine the choice of fluid flow rate for flushing a well?

Ответы:1). drilling pump performance 2). bottom hole cleaning from cuttings 3). removal of cuttings from the well 4). ensuring the operation of downhole motor

Задание: Why is there a limit to the dynamic load on the bit?

Ответы:1). well flushing deteriorates 2). tool rotation stability deteriorates 3). because of the danger of tool fracture 4). rock fracture deteriorates

Задание: Mud density is measured using

Ответы:1). filter press 2). rotational viscometer 3). marsh funnel 4). mud balance

Задание: Which effect does oppressive pressure create?

Ответы:1). increases the resistance of the rock to fracture 2). increases resistance of the bit to rotation 3). increases hydro losses in the flushing system 4). increases the wear of the bit armament

Задание: Oil has been used since ancient times

Ответы:1). for lighting and heating 2). medicinal 3). as a means of execution 4). like poison 5). as a weapon of war

Задание: The purpose of an injection well is

Ответы:1). for systematic monitoring of changes in pressure, water-oil contact during operation of the deposit 2). for injecting water, gas or air into the reservoir 3). for the location of charges that generate seismic waves when detonated 4). to evaluate reservoirs of productive horizons

Задание: The purpose of a column head is to

Ответы:1). sealing of the interstitial space between the production string and fountain pipes 2). pipe sealing 3). support for fountain valves 4). strapping of one or two rows of fountain pipes 5). connection of the upper ends of the casing strings

Задание: Which category of wells does not exist

Ответы:1). Drilling 2). Supports 3). Seismic 4). Exploration

Задание: In which country was offshore drilling first used

Ответы:1). U.S. 2). Japan 3). Saudi Arabia 4). USSR

Задание: What pressure should hydraulic tests of vessels and apparatus operating under atmospheric pressure and under filling be carried out with satisfactory results of an internal examination

Ответы:1). Atmospheric pressure 2). Working pressure 3). Design pressure 4). Hydrostatic pressure

Задание: Is wastewater used for injection into the reservoir

Ответы:1). no 2). yes

Задание: Modern world coal production is at the level of

Ответы:1). 1 2-1 5 billion tons 2). 2 2-3 0 billion tons 3). 4 5-5 0billion tons 4). 3 8-4 4 billion tons

Задание: Readings of the hydraulic weight indicator during wellbore development (while casing string running and lifting) ?

Ответы:1). in both cases equal to zero 2). while running is greater 3). while running and lifting are equal and greater than zero 4). while lifting is greater

Задание: In what year was the first well drilled in the United States

Ответы:1). 1799 г. 2). 1901 г. 3). 1826 г. 4). 1801 г.

Задание: Drilling methods, subdivided by the type of mechanism that transmits rotation to the rock-destroying tool, do not include

Ответы:1). screw downhole motors 2). turbine 3). rotary 4). rod

Задание: Surface equipment for well construction does not include

Ответы:1). transportation 2). casing layout 3). cementing equipment 4). blowout preventer

Задание: The wellbore of wells operated by submersible screw pumps contains

Ответы:1). submersible motor 2). check valve 3). rocker 4). screw pump

Задание: What chemical is used to purify natural gas from

Ответы:1). ethylene glycol 2). hydrogen sulphide 3). methane 4). propylene

Задание: How many times will the pressure drop across the bit change when the nozzle diameter is doubled?

Ответы:1). eight 2). four 3). sixteen 4). two

Задание: This type of drilling equipment is necessary for servicing the process tools and securing the walls of the borehole being drilled

Ответы:1). Special 2). Auxiliary 3). Technological 4). Emergency

Задание: How are pumps classified according to the type of liquid being pumped

Ответы:1). Oil or water 2). multiphase 3). gas

Задание: Which parameter is not part of the 'drilling mode' characteristics?

Ответы:1). drilling fluid flow rate and quality 2). bit rotation rate 3). riser pressure 4). axial load on the bit

Задание: Types of quality control of work in the manufacture, reconstruction, installation, commissioning and repair of vessels

Ответы:1). All below answers 2). Operational 3). Acceptance 4). Entrance

Задание: What is the name of the deposits, which include gas deposits with oil rim, in which the oil part is less than 50% of the fuel equivalent

Ответы:1). Gas and oil 2). Oil and gas 3). Gas 4). Gas condensate

Задание: Which of the following is not related to bit failure?

Ответы:1). sudden change in pressure on the riser 2). decrease of liquid level in the pump receiving tank 3). sudden change of torque on the bit 4). decrease in mechanical drilling rate

Задание: Part of a natural reservoir where oil and gas can be screened and accumulation can occur

Ответы:1). Deposit 2). Trap 3). Deposit 4). Reservoir

Задание: The most common natural trap for oil and gas in nature is

Ответы:1). lithological 2). arched trap 3). shielded 4). tectonic

Задание: How can we increase the load on the bit while drilling?

Ответы:1). by holding the winch brake 2). by increasing the rotor rotation rate 3). by raising the rotor wedges 4). by releasing the winch brake

Задание: Which calibrator design does not exist?

Ответы:1). all of them exist 2). spiral design 3). spherical design 4). straight bladed design

Задание: According to the theory of D.I. Mendeleev, the initial for the formation of oil are

Ответы:1). Organic matter of marine muds consisting of plant and animal organisms 2). From the waste products of an ancient paleocivilization 3). Chemical reaction of water and iron carbide

Задание: Any rock that can absorb and give off liquids and gases

Ответы:1). Non-collector 2). Trap 3). Collector

Задание: How do bits equipped with PDC (polycrystalline diamond composite) cutters break rock?

Ответы:1). by cutting only 2). by cutting crushing 3). by cutting chipping 4). by cutting and scratching

Задание: Deposits in which the main part of the deposit is oil and the gas cap does not exceed the oil part of the deposit in terms of fuel equivalent volume

Ответы:1). Oil and gas 2). Gas 3). Gas condensate 4). Gas and oil

Задание: Following drills are made of one piece of material.

Ответы:1). all of the above 2). tipped solid drills 3). solid drills 4). composite drills

Задание: How many theories of the origin of petroleum are there

Ответы:1). Three 2). Four 3). Alone 4). Two

Задание: Which of the drilling indicators better reflects the achieved level of drilling technique and technology?

Ответы:1). technical drilling rate 2). commercial drilling rate 3). cyclic rate 4). trip drilling rate

Задание: The calorific value of the conventional fuel is

Ответы:1). 7 thousand kcal/kg 2). 5 thousand kcal/kg 3). 4 thousand kcal/kg 4). 6 thousand kcal/kg

Задание: How many groups (series) are class 1 roller cone bits divided into according to the International Association of Drilling Contractors (code IADC) system?

Ответы:1). two 2). one 3). four 4). three

Задание: Where Diaphragm Valves Are Used

Ответы:1). Used for low pressure corrosive service 2). Used for high pressure corrosive service 3). Used for low pressure non corrosive service

Задание: What system is missing in bits equipped with PDC (polycrystalline diamond composite) cutters?

Ответы:1). lubrication system 2). flushing system 3). connecting thread 4). armament

Задание: What is a drill head?

Ответы:1). instrument for pulling the core from the bottom hole 2). core drilling instrument 3). it is not an instrument. 4). instrument for eliminating accidents in the well

Задание: The hydrochemical methods of exploration of oil and gas fields do not include

Ответы:1). luminescence-bitopologically method 2). the method of radioactive survey 3). the gas method 4). the gravity method

Задание: Which instrument is designed for drilling with simultaneous expansion of the well?

Ответы:1). blade bit 2). bicentric bit 3). multi cone bit 4). single cone bit

Задание: What system is only present in roller cone bits?

Ответы:1). armament 2). flushing system 3). bearing 4). connecting thread

Задание: Underground equipment for well construction does not include

Ответы:1). blowout preventer 2). rock-destroying tool 3). drill pipes 4). packers

Задание: Which Federal District of the Russian Federation is the leader in oil production

Ответы:1). North-Caucasian 2). Ural 3). Siberian 4). Privolzhsky

Задание: Which of the following properties, indicators or conditions does not affect the choice of the type of tank for storing oil and oil products

Ответы:1). Physical and chemical properties of stored petroleum products 2). Indicators of the explosiveness of stored petroleum products 3). The annual number of tank filling-emptying cycles

Задание: What is the range of speeds realized by gearless turbo drills and electric drills?

Ответы:1). 300 450 rpm 2). 45 110 rpm 3). 450 680 rpm 4). 110 300 rpm

Задание: How are oil wells operated at the initial stage of field development

Ответы:1). uncompressed 2). fountain 3). compressor 4). pumping

Задание: Natural accumulation of hydrocarbons (oil and/or gas) in a trap, a holistic fluid dynamic system

Ответы:1). Reservoir 2). Deposit 3). Trap 4). Deposit

Задание: At the same time as which process is the process of purifying natural gas from carbon dioxide

Ответы: 1). in conjunction with gas drying 2). together with hydrogen sulfide purification 3). in conjunction with decontamination

Задание: The power required to rotate a roller cone bit is calculated by the formula $N = 5,14 \cdot 10^6 \cdot c \cdot D^{0,4} \cdot G^{1,3} \cdot n$.

Name which of the parameters is chosen according to the hardness of the rock?

Ответы: 1). G 2). D 3). N 4). C

Задание: When using a conventional drilling rig (not coiled tubing, not top drive), during tool build up, drilling fluid circulation ?

Ответы: 1). do not stop 2). switch to reverse circulation 3). stop 4). depends on the pump used

Задание: The length of the well-bore measured along the actual well path is known as

Ответы: 1). both of these 2). measured depth 3). true vertical depth 4). measured depth

Задание: From what section does the endurance calculation of a drill string begin?

Ответы: 1). from the top section of the drill string 2). from the section of the end of the curvature set 3). from the section of the beginning of the curvature set 4). from the 'neutral' section

Задание: The density of a liquid gas is

Ответы: 1). 426 kg/m³ 2). 400 kg/m³ 3). 503 kg/m³ 4). 420 kg/m³

Задание: What is the main disadvantage of the central bit flushing system?

Ответы: 1). weak hydrodynamic influence on the bottom hole 2). poor cooling of the armament and cone bearings 3). poor distribution of fluid flow along the bottom hole 4). insufficient cleaning of cutter bits from sticking rock

Задание: How is oil desalting carried out

Ответы: 1). centrifuged 2). continuous passage of the treated mixture through the settling tank 3). thermal effects and in-line demulsification 4). Blending of dewatered oil with fresh water, followed by dehydration

Задание: The removal of methane, ethane, propane and partially butane from gas gasoline is called

Ответы: 1). drying 2). compressing 3). deep cleaning 4). stabilization

Задание: When drilling wells with a drilling rig without an overhead drive, the load on the bits is created?

Ответы: 1). by the rotor table 2). by the drilling winch 3). by the drill string 4). by the talus block

Задание: Petroleum gases are characterized by an increased content of

Ответы: 1). ethylene glycol 2). methane, ethane and propane 3). octane, decane and diesel fractions 4). propane, butane and gasoline fractions

Задание: What is not an element of well construction?

Ответы: 1). wellhead preventers 2). casing cementing intervals 3). casing running depths 4). casing strings

Задание: What is the differential pressure at the bottom of the wellbore?

Ответы: 1). difference between geostatic rock pressure and formation pressure 2). the difference between lateral rock pressure and formation pressure 3). the difference between the hydrodynamic downhole pressure and the formation pressure 4). the difference between hydrostatic pressure on the bottom hole and formation pressure

Задание: What characteristic of a roller cone bit determines the choice of its rotational speed?

Ответы: 1). support type 2). armament type 3). flushing system type 4). armament class

Задание: Surge chamber is used after the mud pump to

Ответы: 1). dampen pressure surges and flow pulsations 2). remove solid particles 3). prevent barite settling 4). stabilize the draw works

Задание: What are the armamentation of the drill bits for drilling non abrasive rocks?

Ответы: 1). carbide 2). composite material 3). steel 4). diamond

Задание: Gas wells are operated only by

Ответы: 1). gas lift method 2). the fountain method 3). retaining method 4). pumping method

Задание: What is the name for the longest string of casing run in a well?

Ответы: 1). production casing 2). intermediate casing 3). conductor casing 4). surface casing

Задание: Readings, what instrument does not characterize the mode of operation of the bit?

Ответы: 1). manometer on the riser 2). drilling fluid level indicator 3). weight indicator 4). flow meter

Задание: The power required to rotate the bit is calculated by the formula $N = 5,14 \cdot 10^6 \cdot c \cdot D^{0,4} \cdot G^{1,3} \cdot n$. Name which of the parameters characterize the bit operating mode.

Ответы: 1). G и n 2). c и D 3). D 4). c

Задание: What is the reason for the increased vibration of the pumping unit

Ответы: 1). The rotor balance is broken 2). Air leakage through the pipeline and seals; 3). Clogged mesh at the reception; 4). Increased resistance in the pressure line (discharge valves closed)

Задание: What is a well construction cycle?

Ответы: 1). the time of drilling, casing and completion of the well 2). the time to construct a rig and drill wells without taking into account downtime 3). the well drilling time including downtime 4). the time from drilling the previous well to drilling the next well

Задание: What is the range of speeds realized by screw downhole motors?

Ответы: 1). 450 680 rpm 2). 300 450 rpm 3). 45 110 rpm 4). 110 300 rpm

Задание: In which drilling method is rotation of the drill bit mandatory?

Ответы: 1). rotary 2). volumetric engine 3). turbodrill 4). electric drill

Задание: Which of the following is not a part of Drilling machine?

Ответы: 1). Head 2). Spindle 3). Column 4). Mandrel

Задание: By drilling, which wells discover accumulations or deposits of oil and/or gas?

Ответы: 1). evaluation wells 2). exploration wells 3). search wells 4). injection wells

Задание: How does the penetration per revolution of a roller cone bit change with increasing bit load?

Ответы: 1). monotonically increases 2). unchanged 3). along the S curve 4). monotonically decreases

Задание: Name the main method of oil production in Russia

Ответы: 1). pumping 2). gas lift 3). fountain

Задание: Which drilling method is the main method of drilling a well to the productive formation?

Ответы: 1). repression drilling 2). equilibrium drilling 3). regression drilling 4). underbalanced drilling

Задание: With increasing, what factor increases the oppressive pressure on the bottom of the wellbore?

Ответы: 1). fluid loss 2). bit rotation rate 3). the size of the annular gap between the borehole wall and drill pipes 4). bottomhole rock permeability

Задание: Which of the following parameters does not characterize the energy of the work of a rock destroying instrument (drilling bit)?

Ответы: 1). torque 2). bit load 3). bit power 4). energy intensity of rock destruction

Задание: The first written mention of the use of petroleum dates from

Ответы: 1). 6000 BC. 2). 1000 BC. 3). 300 B.C. 4). 1865 г. 5). 1000 CE.

Задание: What are the names of one- and two-phase deposits characterized both by the presence of lithological replacements or tectonic disturbances, and uncontained thicknesses and reservoir properties of productive formations, as well as deposits of complex structure with heavy oil

Ответы: 1). Simple structure 2). Complex structure 3). A very complex structure

Задание: Which of the following methods belong to methods of reservoir pressure maintenance

Ответы: 1). hydraulic fracturing 2). in-situ flooding 3). heat treatment 4). treatment of bottomhole formation zone with surfactants 5). gas injection into the gas cap of an oil reservoir 6). flooding 7). contour flooding

Задание: Today, the Russian Federation has

Ответы: 1). 42-projected and 34% of proven natural gas reserves 2). 22-projected and 14% of proven natural gas reserves 3). 72-predicted and 52% of proven natural gas reserves 4). 52-projected and 24% of proven natural gas reserves

Задание: What welding technologies are allowed to be used in the repair of pressure vessels

Ответы: 1). Flat weld only 2). should be only butt and Flat weld 3). should be only butt

Задание: How many hardness groups are rocks divided into in relation to bit classification?

Ответы: 1). five 2). eight 3). four 4). six

Задание: What function does the drain valve in a column shell perform?

Ответы: 1). provides flushing of bottomhole during drilling; 2). Provides drainage of fluid from the core pipe during drilling; 3). closes the internal channel of the instrument at water, oil and gas spillage; 4). prevents sudden fluctuations in fluid pressure in the well

Задание: Which of the reamer designs does not exist?

Ответы: 1). all of them exist 2). sliding 3). roller cone 4). rigid

Задание: Aeromagnetic survey allows you to detect anticlines at a maximum depth of up to

Ответы: 1). 700 km 2). 1 5 km 3). 7 m 4). 4 km

Задание: The deposit is

Ответы:1). A spatially restricted subsurface area containing a deposit or several deposits of oil and gas located in a section one above the other within the same area 2). an oil and gas deposit within the same area 3). reserves of oil, gas, condensate and associated components contained therein 4). hydrocarbon accumulations in thick reservoir rock strata

Задание: The most common type of corrosion on main pipelines is

Ответы:1). bio corrosion 2). electrochemical corrosion 3). chemical corrosion 4). contact corrosion

Задание: How many ways are there to break oil-water emulsions

Ответы:1). 3 2). 5 3). 7 4). 4

Задание: Which is the main method of drilling for oil and gas?

Ответы:1). hydraulic drilling 2). mechanical percussive drilling 3). fire drilling 4). mechanical rotary drilling

Задание: How many operations are there to prepare water for injection

Ответы:1). 5 2). 2 3). 6 4). 4

Задание: Parametric wells are designed to

Ответы:1). to study the main features of the deep structure of little explored large regions, to determine the general regularities of stratigraphic and spatial location of sediments favorable for oil and gas accumulation 2). for liquid and gas injection, discharge of produced water, elimination of open oil and gas fountains, preparation of structures for underground gas storages and gas injection, exploration and production of technical water 3). to recover oil and gas from a development well 4). to study the depth structure and comparative assessment of oil and gas prospects of possible oil and gas accumulation zones

Задание: The method of legal flooding is used when

Ответы:1). options a and b are correct 2). low permeability of productive layers in the part filled with water 3). the development of an oil deposit that occupies a significant area 4). the development of relatively small deposits

Задание: In addition to sulfur and saltpeter, Greek fire also includes

Ответы:1). kerosene 2). fuel oil 3). asphalt 4). crude oil

Задание: What is the name of sedimentary rocks capable of releasing free hydrocarbon fluids under certain geological conditions, formed in the process of dia- and catagenetic transformations of the dispersed organic matter contained in them.

Ответы:1). oil and gas parent 2). sedimentary 3). magmatic

Задание: What is called the flow or performance of the pump

Ответы:1). The ratio of useful power to consumed power; 2). The maximum height of the liquid column, to which the centrifugal pump is able to lift the liquid, working on a vertical pipe 3). The power consumed by the electric motor 4). The amount of fluid pumped per unit of time;

Задание: A surface phenomenon consisting in the interaction of a liquid with a solid in the presence of simultaneous contact of three immiscible phases

Ответы:1). Surface energy 2). Surface tension 3). Interfacial tension 4). Wetting

Задание: The hoisting system does not include

Ответы:1). none of the above 2). rotary table 3). draw works 4). block and tackle

Задание: How many classes are bits divided into according to the abrasiveness of rocks?

Ответы:1). four 2). two 3). three 4). five

Задание: Which drilling method includes rotational rate as one of the drilling mode parameters?

Ответы:1). Electrical drilling 2). Rotary drilling 3). Turbo drilling 4). Drilling with a volumetric engine

Задание: Which country is not among the oil exporting countries (OPEC)

Ответы:1). Algeria 2). Mexico 3). Indonesia 4). Gabon

Задание: The methods of enhanced oil recovery and gas recovery of reservoirs do not include

Ответы:1). carbon dioxide injection 2). Solvent displacement of oil from the reservoir 3). oil displacement by polymer solutions 4). chemical method 5). hydraulic fracturing 6). in-situ flooding method 7). vibration impact 8). Injection of water treated with surface active substances into the formation 9). treatment of bottomhole formation zone with surface active substances 10). in-situ combustion 11). injection of heat transfer fluids

Задание: Estimated percentage of global natural gas production attributable to the Commonwealth of Independent States (CIS) countries

Ответы:1). 30 2). 8 3). 22 4). 42

Задание: Under what conditions is hydraulic testing of vertically installed vessels allowed to be carried out in a horizontal position

Ответы:1). All below answers 2). Subject to ensuring the strength of the vessel body 3). The test pressure should be taken into account the hydrostatic pressure acting on the vessel during its operation 4). The strength calculation must be carried out by the designer of the vessel design, taking into account the accepted method of support during the hydraulic test

Задание: In the hard-water mode, the source of energy is

Ответы:1). the pressure of marginal (or plantar) waters 2). the energy of the dissolved gas released from the oil when the pressure decreases 3). the pressure of the gas cap 4). the elastic force of water, oil and the rocks themselves, compressed in the bowels under the influence of mountain pressure

Задание: Rod depth pumps can extract oil from a maximum depth of up to

Ответы:1). 1,500 m 2). 3,000 m 3). 5,000 m 4). 500 m

Задание: What stage in the well construction cycle does the construction of a pothole belong to?

Ответы:1). to drilling and consolidation of the well 2). to construction and installation work 3). to well development 4). to preparatory work for drilling

Задание: How does the speed of propagation of seismic waves in rocks depend on their density

Ответы:1). the speed of propagation of seismic waves in rocks does not depend on their density 2). the denser the rock, the faster the waves penetrate through it 3). the denser the rock, the slower the waves penetrate through it 4). there is no correct answer

Задание: What is the term for the process of removing the drill string from the wellbore?

Ответы:1). Tripping out 2). Breaking a connection 3). Tripping in 4). Making a connection

Задание: Who was the initiator and designer of the first oil pipeline in Russia

Ответы:1). L M Sokolovsky 2). B A Ivanitsky 3). V G Shukhov 4). D I Mendeleev

Задание: Which drilling metric better characterises the unproductive time and cost of constructing a well?

Ответы:1). technical drilling rate 2). trip drilling rate 3). mechanical drilling rate 4). commercial drilling rate

Задание: What does not characterise a drilling regime?

Ответы:1). type of drilling rig 2). type and class of rock cutting tools 3). mode of operation of the rock cutting tool 4). bit rotation method

Задание: What is the term for the process of lowering the drill string into the wellbore?

Ответы:1). Running casing 2). Drilling 3). Rigging down 4). Rigging up

Задание: The highest oil recovery coefficient, equal to 0.5-0.8, is achieved at

Ответы:1). elastic-water-pressure mode 2). gravity mode 3). gas-pressure mode 4). hard-water pressure mode

Задание: Oil losses are classified into the types

Ответы:1). all options are correct 2). quantitative and qualitative 3). qualitative 4). quantitative

Задание: Simultaneous separate exploitation of several formations by one well is possible with the help of

Ответы:1). drill pipes 2). packers 3). pump rods 4). tubing

Задание: In which city was a pool found with the bottom filled with bitumen

Ответы:1). Pompeii 2). Thebes 3). Mohenjo-Daro 4). Jerusalem

Задание: What is the term for the process of installing casing in the wellbore?

Ответы:1). Cementing casing 2). All of the above 3). Perforating casing 4). Running casing

Задание: The rod is

Ответы:1). the name of the tanks installed on the first river oil barges 2). a small container made of lead plates connected to each other by rivets, and intended for settling crude oil 3). a special scoop device designed to collect oil from the surface of the water 4). an elongated container lowered into the well on a cable and adapted to the narrower transverse dimensions of the well compared to the size of the well

Задание: Which of the following vessels are not subject to the requirements of these Rules

Задание: Ответы:1). Vessels installed on airplanes and other aircraft 2). All the below answers 3). Vessels installed on sea, river vessels and other floating vehicles (except dredges) 4). Air tanks of braking equipment of rolling stock of railway transport, cars and other means of transportation

Задание: The ability of rocks to hold water, liquid and gaseous hydrocarbons

Ответы:1). Permeability 2). Saturation 3). porosity

Задание: The composition of the electric power industry does not include

Ответы: 1). independent boiler houses 2). nuclear power plants (NPPs) 3). oil refineries (refineries) 4). electrical and thermal networks (for example, power lines) 5). oil refineries (refineries)

Задание: How many classifications of natural gas field gathering systems are there

Ответы: 1). three 2). there is no such classification 3). four 4). five

Задание: What is the fundamental difference between a calibrator and a centralizer?

Ответы: 1). reinforcement of working surfaces 2). instrument diameter 3). shape of working elements 4). place of installation

Задание: Which method is not used when working off bits?

Ответы: 1). ensure maximum mechanical drilling speed 2). ensure maximum penetration per bit 3). to ensure maximum life of the bit 4). to ensure maximum travel speed of drilling

Задание: Which range should the fluid flow rate from the flushing nozzle of a hydromonitor flushing system be?

Ответы: 1). 20 30 m/s; 2). 30 40 m/s; 3). 40 60 m/s; 4). more than 60 m/s