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Data sheet for mobile oil-well test and development unit (test-separator)

Company: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of oil Field: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| № | **Indicators**  | **Values** |
| ***1*** | ***2*** | ***3*** |
| 1 | Maximum and minimum capacity of the field on liquid (oil+water), m3/day |  |
| 1.1 | Oil flow range (flow rate), m3/day |  |
| 1.2 | Gas flow range (flow rate), NCM/day |  |
| 2  | Planned operating duty |  |
| 2.1 | Pressure in oil-and-gas gathering system, MPa |  |
| 2.2 | Inlet pressure in test-separator, MPa |  |
| 2.3 | Gas factor, m3/m3 |  |
| 3 | Temperature range of the well production, ºС |  |
| 4 | Acidity of the medium, pH |  |
| 5 | Oil properties: |  |
| Oil density, kg/m3 | at 20 °C |  |
| - density, mm2/c (MPa x c) | at 20 °C |  |
| at 50 °C |  |
| - composition of reservoir oil and degassed oil |  |
| Oil-freezing point, °C |  |
| Initial paraffin crystallization point, °C |  |
| Paraffin melting temperature, °C |  |
| 6 | Content, mass %: |  |
| - paraffin |  |
| - total sulfur |  |
| - mercaptan sulfur |  |
| - hydrogen sulfide |  |
| - gum, asphaltene |  |
| - solid particles |  |
| 7 | Gas properties |  |
| - complete gas composition, mol % |  |
| N2 (nitrogen) |  |
| CO2 (carbon dioxide) |  |
| H2S (hydrogen sulfide) |  |
| СН4 (methane)  |  |
| С2Н6 (ethane)  |  |
| С3Н8 (propane)  |  |
| iC4H10 (isobutane) |  |
| nC4H10 (n-butane)  |  |
| iC5H12 (isopentane) |  |
| nC5H12 (n.pentane) |  |
| С6+higher  (hexanes) |  |
| Gas density, kg/m3 |  |

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| 8 | Water property: |  |
| - salt content of reservoir water |  |
| - acidity, pH |  |
| - density at \_\_\_\_\_\_ °C, kg/m3 |  |
| - total salt content, g/dm3 |  |
| 9 | \* Specify oil disposal method | to header  |  |
|  | reservoir pressure, MPa |  |
| automatic calling |  |
| disposal at HFU |  |
| other |  |
| 10 | \* Specify water disposal method | Field of formation pressure maintenance (disposal well)  |  |
| automatic calling |  |
| evaporating on HFU |  |
| other |  |
| 11 | \* Specify gas disposal method | - gas-diesel-electric station |  |
| - gas turbine electric station |  |
| - flare (delivery of mobile flare is possible)- mobile horizontal flare unit (HFU)- mobile vertical flare unit (FU)- flare knock-out drum - with pumpout pump - with disposal to drainage vessel - pilots for FU and HFU- direct ignition for FU or HFU |  |
| - gas-gathering header  |  |
|  | reservoir pressure, MPa |  |
| 12 | Necessity to feed reagent (chemical injection skid is installed on the test-separator unit) | demulsifier |  |
| other reagent (specify) |  |
| 13 | Incision for feeding of | corrosion prevention chemical  |  |
| hydrate growth inhibitor |  |
| paraffin inhibitor |  |
| salting inhibitor |  |
| 14 | Measuring error of the flowrate of  | oil |  |
| gas |  |
| water |  |
| 15 | Additional and associated equipment |
| Accumulation tank v=25 or 50m³ | - chassis-mounted |  |
| - skid-mounted |
| - runners-mounted |
| Oil heating unit  | - with LFPU (liquid fuel processing unit) |  |
| - without LFPU (liquid fuel processing unit)  |  |
| - modular mobile power station  | - diesel |  |
| - piston |  |
| - turbine |  |
| Control room  | on chassis 6х2.5 in assembly with: operator's automated working station, control cabinet, low-voltage package cabinet |  |
| other (specify requirements) |  |
| Loading unit | Hermetic loading |  |
| Non-hermetic loading |  |
| 16 | Control method to measure well production | automatic |  |
| manual |  |
| 17 | Instrumentation requirements: |  |
| 18 | Operation area climate conditions: |  |
| - average temperature of coldest five days, °C |  |
| - absolute minimal temperature, °C |  |
| 19 | Power supply |  |
| 20 | Version | - chassis-mounted |  |
| - skid-mounted |
| - runners-mounted |
| - in precipitation shelter |
| - without shelter |
| 21 | Additional services required or not | Supervised installation |  |
| Start-up and commissioning  |  |
| Transportation (destination) |  |
| 22 | Other requirements |  |  |

***Prepared by:***

***Surname Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Position: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Company: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Postal address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Stamp here \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *Signature of the enterprise (department) head***

***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Printed name***