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## Опыт применения и перспективы развития систем подводной сепарации нефти и газа

Разработка систем подводной сепарации нефти и газа является перспективной с точки зрения совершенствования технологий подводной добычи углеводородов. По мере освоения все более удаленных от берега морских месторождений, расположенных соответственно на больших глубинах, возрастает требования к технологическим операциям, которые необходимо выполнять под водой в непосредственной близости от устья скважины. Целью развития систем подводной добычи на современном этапе является создание полностью подводного процесса, оборудования которого обеспечивает высокую степень подготовки скважинной продукции.

В последние десять лет происходит активное развитие технологий подводной подготовки скважинной продукции [1]. Размещение технологического оборудования на морском дне в непосредственной близости от устья скважины позволяет более эффективно осуществлять разработку месторождения, в частности:

- поддерживать необходимое для добычи тяжелой нефти давление на устье;
- повышать давление на входе во внутритрубовую систему сбора для месторождения с низким пластовым давлением;
- снижать расход, связанный с гидратообразованием в системе сбора;
- обеспечивать эффективную добычу нефти при повышении уровня обводненности за счет использования сепараторов нефть-вода;
- более глубоко подходить к проектированию верха строений морских платформ за счет размещения части технологического процесса на морском дне;
- значительно снижать эксплуатационные затраты за счет подбора оптимального доавального оборудования (применение однофазных насосов вместо многофазных).

На сегодняшний день технологии подводной сепарации успешно применяются не только в скважинах в эксплуатационных месторождениях, но и на месторождениях, где добыча осуществляется уже достаточно длительное время. Для таких старых месторождений уровень добычи, коэффициент извлечения и, как следствие, общий экономический коэффициент могут быть увеличены за счет продления периода эксплуатации уже существующей технологической инфраструктуры. Например, сепарация попутной воды с ее последующей закачкой в пласт позволяет повысить проницаемость трубостранов и райберов и исключить необходимость модернизации технологического оборудования на верхних строениях платформ. При разработке новых месторождений система подводной добычи может быть сразу спроектирована с учетом размещения первичной сепарации на морском дне, в результате чего могут быть снижены требования к производительности вспомогательного оборудования на морской платформе.

Технология подводной сепарации наиболее привлекательна при освоении удаленных и глубоководных месторождений, поскольку с одной стороны, способна обеспечить как ускоренный ввод в эксплуатацию, а с другой стороны, приводит к повышению коэффициента извлечения нефти и газа. В ряде случаев использование подводных сепараторов позволяет существенно увеличить гибкость проекта и повысить его экономическую эффективность.

На сегодняшний день в море применяются несколько технологий первичной подводной сепарации:

- двухфазная сепарация жидкость-жидкость, реализуемая с применением традиционных гравитационных сепараторов достаточно большого размера или с помощью компактных сепараторов (мембранной конструкции или внутритрубных);

**Ключевые слова:**  
глубоководное месторождение, подводный сепаратор, подводное технологическое оборудование, двухфазная сепарация, утилизация песка.

**Keywords:**  
deep-sea field, submarine separator, submarine process equipment, two-phase separation, sand recycling.

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