



06 Camino De Los Desmontes, Placitas, New Mexico 87043

Phone: 505-867-0008 Fax: 505-867-0212

Web site: www.xitechinc.com E-mail: xitechinc@xitechinc.com

Application Note #10

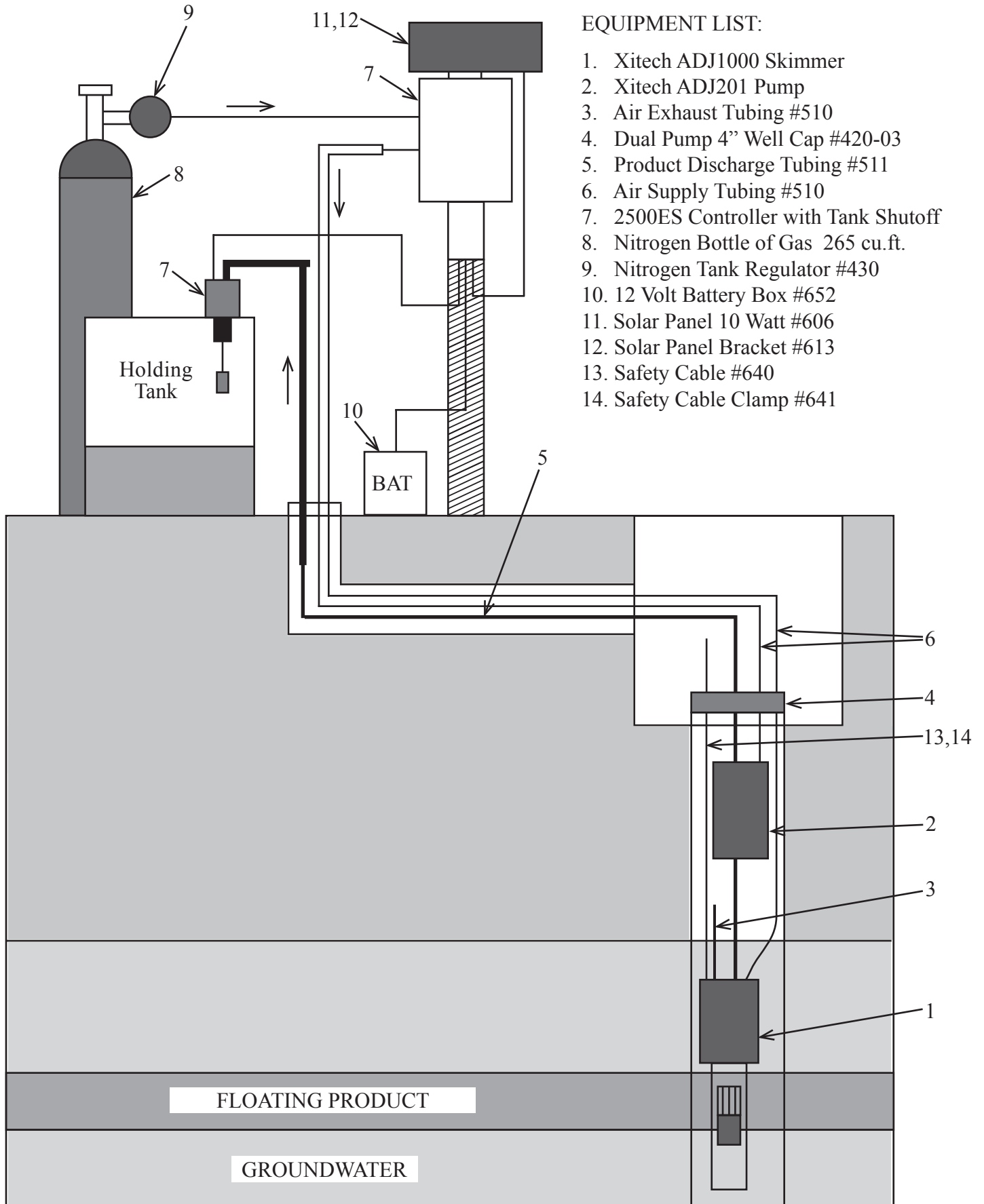
Deep Depth Skimming System

Xitech has developed the ability to recover free floating product from depths up to 500 feet deep. At present, Xitech has been successful at skimming jet fuel from a depth of 492 and 289 feet. The skimmer is being installed at the water / product interface and a relay pump ADJ201 at the mid point depth. The ADJ1000 Skimmer has a special anti-gas lock design that enables the skimmer to prime under great head pressures. The ADJ1000 Skimmer and ADJ201 pump head both have the ability to lift product up to 250 feet each. The reason why we insist on using compressed nitrogen gas, is that bottled nitrogen is a very clean dry gas that is non-explosive. The skimmer pumps the product up to the inlet of the ADJ201 Pump which in turn pumps the product up to the surface. The operating pressure needed to accomplish this task is 120psi. We have observed as much as a 5 gallons per hour flow rate discharge from this depth.

Pulling and putting this pumping system down 500 feet is a real difficult task. You will need at least 3 strong people to install this pumping system. There is currently no powered mechanical way of installing this pumping system. The minimum diameter of the well needs to be 4 inches. The Xitech 2500ES Controller is used to operate both the skimmer and the pump on an intermittent basis. The 2500ES also includes a high level product tank shutoff assembly.

Please feel free to call Xitech with any questions about this product.

Deep Depth Skimming using 2500ES Controller, DC Power



EQUIPMENT LIST:

1. Xitech ADJ1000 Skimmer
2. Xitech ADJ201 Pump
3. Air Exhaust Tubing #510
4. Dual Pump 4" Well Cap #420-03
5. Product Discharge Tubing #511
6. Air Supply Tubing #510
7. 2500ES Controller with Tank Shutoff
8. Nitrogen Bottle of Gas 265 cu.ft.
9. Nitrogen Tank Regulator #430
10. 12 Volt Battery Box #652
11. Solar Panel 10 Watt #606
12. Solar Panel Bracket #613
13. Safety Cable #640
14. Safety Cable Clamp #641

Deep Depth Skimming using 2500ES Controller, AC Power

EQUIPMENT LIST:

1. Xitech ADJ1000 Skimmer
2. Xitech ADJ201 Pump
3. Air Exhaust Tubing #510
4. Dual Pump 4" Well Cap #420-03
5. Product Discharge Tubing #511
6. Air Supply Tubing #510
7. 2500ES Controller with Tank Shutoff
8. Nitrogen Bottle of Gas 265 cu.ft.
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