



## PRODUCTION SOLUTIONS

## **CASE STUDY**

### **Eunisell Production Solutions**

Eunisell has been providing solutions for the Nigerian oil and gas marketplace for over 10 years. Using years of experience in engineering, production, operations and enhanced production techniques, Eunisell has provided the means for operators to achieve production goals sooner and at less capital costs on a number of occasions. Detailed examples of Eunisell depth of experience in bringing production to market quickly and production enhancement are the focus of this document.

#### **Modular Central Production Facility / Operations and Maintenance**

*Initial average production rate: 2200BPD*

An indigenous exploration and production company in southeast Nigeria required an expeditious path to producing existing and planned wells for their field. A quick path to first oil and subsequent production provided the means for executing a long-term solution for growth. After performing well tests on three producing wells in the field, Eunisell provided engineering, design, procurement and commissioning of a Modular Central Production Facility. This facility includes management of incoming effluent streams, optimization of effluents with chemical and temperature, multistage separation, gas management and tankage for crude storage. The facility was designed and built to accommodate the expansion planned for the field by the operator.

The project was completed within 6 months of inception and additionally, Eunisell provided operations and maintenance for the facility during its initial years of operation while training the operator's staff on the proper operation of the facility.

#### **Barge Mounted Early Production Facility with Produced Water Management**

*Initial average production rate: 2000BPD*

A marginal field operator had made the initial investment to complete an existing well in their concession and needed to bring the well online and start production as soon as possible.

Eunisell provided design and engineering, equipment and personnel to place a mobile early production facility at the remote site in the swamp. The facility includes flowing capacity of 20,000BPD with multistage 3 phase separation, water treatment, storage, instrumentation and control, chemical injection and export.

With an initial production rate of 2000BPD, the operator was able to quickly achieve first oil and subsequent continued production to provide a revenue stream for further development planning for the field. The facility was in continuous operation for 6 months.

#### **Extended Well Test / Modular Production Facility**

*Initial average production rate: 1500BPD*

An indigenous operator of a developing field required testing for new and existing wells and the means for the establishment of long-term production performance. Eunisell provided

engineering, equipment and personnel to conduct a series of testing programs with single well performance up to 3500BPD.

Subsequent provision of a Modular Production Facility allowed for extended production from a single remote well with multistage separation and storage. Client was able to produce at a consistent rate of 1500BPD over a period of 7 months. Facility included multistage separation and storage as well as safety systems and data acquisition.

### **Extended Well Test / Modular Production Facility**

*Initial average production rate: 650BPD Condensate 15MMSCFD Gas*

A marginal field operator required testing for an existing well and the establishment of long-term production performance while providing revenue from sales. Eunisell provided engineering, equipment and personnel to provide a Modular Production Facility allowed for extended production from a single remote well with multistage separation and storage. Client was able to produce at a consistent rate of 650BPD of condensate over a period of 6 months. Facility included multistage separation and storage, gas flaring up to 15MMCFD as well as safety systems and data acquisition.

### **Extended Well Test / Modular Production Facility**

*Initial average production rate: 5000BPD / Final average production rate 15000BPD*

Operator of an established field with multiple wells required performance of Maximum Efficiency Rate testing on all well strings in the field. Eunisell provided equipment and personnel to perform MER testing and evaluation on 35 strings.

Subsequently, the operator, based on the results of the campaign, selected a target well for provision of gas lift supply. Eunisell performed an extended isochronal test and afterwards provided a modular production facility on the well site to produce the well at 4MMSCFD for use in application of enhanced production solutions across the field. The length of the overall campaign was 17 months including 10 months of production on a continuous basis.

The application of the production of the based on the previous testing campaign allow for a 300% increment to total field production rates

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