

# OIL AND GAS ACTIVITIES IN FLORIDA, 1967

by  
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## PRODUCTION

### SUNOCO-FELDA OIL FIELD

The Sunoco-Felda oil field as shown in figure 1, is the newer of Florida's two currently producing fields. It was discovered by the Sun Oil Company on October 9, 1964, and is located in Hendry and Collier counties of southern Florida. The structural configuration of the field is shown on figure 2; the character on representative induction-electrical logs of the marker contoured is depicted on figure 3, a cross section. As of December 31, 1967 this field contains 26 producing wells drilled on 160-acre spacing, and it appears that nine dry holes have mostly defined the limits of the field. In 1967 there was no field drilling.

It is possible that additional fields are present along a northwest-southeast trend of which the Sunoco-Felda field is a part. At the present time there is insufficient control to definitely determine if the Sun, No. 1 Red Cattle Company "B" well located 3½ miles northwest of the main part of the Sunoco-Felda field, and completed August 2, 1966 with an initial production of 56 BOPD, is an extension of the original field, or is a new field discovery.

The Sunoco-Felda field produces on pump from the microfossiliferous (miliolitic) limestone of the Roberts zone, which is reached at a depth of about 11,460 feet, and which occurs about 60 feet below the top of the Sunniland Limestone of Lower Cretaceous (Trinity) age. A large percentage of salt water is yielded by up-gradient producing wells to the north, where the porosity of the Roberts zone is reported by the operator to be poor. Woodson R. Oglesby (1967, p. 278) has suggested that hydrodynamic factors may have contributed to the oil accumulation in the Sunoco-Felda field.

The yield of the better wells of the field ranges from about 230 to 285 BOPD, with 19 and 11 percent, respectively, of the total fluid recovery being salt water. The gravity of this oil is about 24 degrees API. Table 1 shows monthly and cumulative oil production from the field for the four-year period, 1964-1967, inclusive. In association with the 1967 production of 982,807 barrels of oil (table 1), the field also produced 1,184,055 barrels of salt water, which was 55 percent of the total fluid yield.

### SUNNILAND OIL FIELD

The Sunniland oil field (fig. 1), discovered in 1943 and operated by the Humble Oil and Refining Company, is located in Collier County, and about 18 miles south of the Sunoco-Felda field. The structural configuration of the field is shown on figure 4. The short-lived Forty Mile Bend field is the only additional discovery of a field similar to the Sunniland field.