

*OCC*  
*Hobbs*

GULF OIL CORPORATION  
FORT WORTH PRODUCTION DIVISION  
P. O. Box 2167  
Hobbs, New Mexico

*124/13*

December 9, 1955

New Mexico Oil Conservation Commission  
P. O. Box 871  
Santa Fe, New Mexico

Re: Application to Dually Complete Gulf  
Oil Corporation's Hugh No. 4, Drink-  
ard Oil Pool and Tubb Gas Pool, Lea  
County, New Mexico.

Gentlemen:

By this letter of application, Gulf Oil Corporation wishes to state the following:

(a) That Gulf Oil Corporation's Hugh No. 4, located in the C NE/4 NE/4 of Section 14-22S-37E, was completed 2-14-48 at a total depth of 6540'. The attached Exhibit "A" shows the location of this well on the Gulf Oil Corporation Hugh Lease together with the location of all offset wells. The attached Exhibit "B" is a schematic drawing of the proposed dual completion.

(b) That subject well has 7" casing set at 6397' and cemented with 504 sacks of cement. The well is an oil well producing from the open hole interval from 6397-6540' in the Drinkard Pool.

(c) That the applicant proposes to dually complete the well in the following manner:

1. Perforate the 7" casing within the approximate interval of 6035-6075', 6100-6120' and 6130-6140' in the Tubb Gas Pool.
2. Set production type packer below these perforations at approximately 6350' to separate the two pay zones.
3. Produce the Drinkard Pool oil through the tubing and the Tubb gas through the tubing-casing annulus.

(d) That the granting of this application for permission to produce the well as a dual completion with gas from the Tubb and oil from the Drinkard is in the interest of conservation and the protection of correlative rights.

(e) That the applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.

(f) That the manner and method of the proposed dual completion is mechanically feasible and practical.

Figure 1 is a line graph showing the percentage of total energy expenditure (TEE) for different activities over a 24-hour period. The Y-axis is 'Percentage of TEE' (0-100) and the X-axis is 'Time of Day' (0-24). The legend indicates: Sleeping (hatched), Sedentary (white), Light (diagonal lines), Moderate (cross-hatch), and Vigorous (solid black). Sleeping is highest at night (~30-40%). Sedentary is highest in the morning (~20-30%). Light activity is highest in the afternoon (~10-20%). Moderate and Vigorous activities are highest in the afternoon/evening (~10-20%).