

SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 31, T19S, R29E, NMPM, Eddy County, NM

The associated access road will measure 12 X 3700 ft and will be situated in the:

SE $\frac{1}{4}$ NE $\frac{1}{4}$ , Section 36, T19S, R28E, NMPM, Eddy County, NM

SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 31, T19S, R29E, NMPM, Eddy County, NM

SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 31, T19S, R29E, NMPM, Eddy County, NM

Map Reference: USGS OIL CITY QUADRANGLE, 15 Minute Series, 1943.

### Terrain

MARATHON OIL COMPANY's proposed location is situated on the crest of a ridge overlooking Burton Flat to the south and west. As a whole, surficial deposits are highly gypsiferous in content being marked by outcroppings of this material as well as other evaporates. Drainage is toward the west, generally speaking, and moves as a result of ephemeral sheetwash. Small rills and water courses bisect the immediate area. Observed soil individuals are dominated by the silt and clay separates and are fine-textured silty clay loams and clay loams belonging to the Typic Gypsiorthid, Calcic Gypsiorthid, and Typic Torriorthent subgroups. Inclusions, for the most part, are gypsiferous, however, secondary-type duripan is present on a sporadic basis.

### Floristics

Gypsiferous soils host mixed stands of *Coldenia canescens* and *Bouteloua breviseta*. Associated forbs include: *Lepidium* sp., *Amelocaulis gypsogenus*, *Mentzelia* sp., *Dicranocarpus* sp., *Haploethes greggii*, *Nerisyrenia linearifolia*, and *Cuscuta indecora*. More calcic soils support *Hilaria mutica* and occasional *Yucca glauca* and *Ephedra* sp. Frequent forbs on these soils are *Perezia nana*, *Sartwellia* sp., *Senecio longilobus*, *Cirsium* sp., *Solanum eleagnifolium*, *Phacelia* sp., and *Cryptantha* sp. Cacti commonly