



Wellbore Schematic

Well Name: MARINER FEE 23 28 19 WA 10H

| | | | | | | |
|---------------------------------------|--------------------------------|-------------------------|-----------------------------------|----------------------------------|---------------------------|------------------------------|
| State/Province NEW MEXICO | Prospect Area MALAGA | Field Name CARLSBAD | Well Subtype | Lat/Long Datum NAD27 | Latitude (°) 32.299738 | Longitude (°) -104.122889 |
| Well Configuration Type HORIZONTAL | Well Objective EXPLOITATION | Well Status DRILLING | Ground Elevation (ft) 3,066.00 | KB-Ground Distance (ft) 26.50 | | |

HORIZONTAL - MARINER FEE 23 28.19 WA 10H, 6/29/2018 8:23:09 AM.

| MD (ftKB) | TVD (ftKB) | Incl (°) | Vertical schematic (actual) | |
|--------------|------------|----------|-----------------------------|--|
| 26.5 | 26.6 | 1.2 | | <p>No. 1; Des: Conductor 1; OD: 20.000 in; ID: 19.000 in; Depth MD: 26.5-146.5 ftKB; Length: 120.00 ft</p> <p>No. 2; Des: Surface; OD: 13.375 in; ID: 12.615 in; Depth MD: 26.4-440.9 ftKB; Length: 414.45 ft</p> <p>No. 3; Des: Intermediate 1; OD: 9.625 in; ID: 8.921 in; Depth MD: 26.5-2,441.4 ftKB; Length: 2,414.87 ft</p> <p>No. 4; Des: Intermediate 2; OD: 7.000 in; ID: 6.184 in; Depth MD: 26.5-9,858.3 ftKB; Length: 9,831.82 ft</p> <p>No. 5; Des: Liner 1; OD: 4.500 in; ID: 3.920 in; Depth MD: 8,950.4-14,621.0 ftKB; Length: 5,670.59 ft</p> |
| 27.9 | 27.9 | 1.2 | | |
| 29.2 | 29.2 | 1.2 | | |
| 69.6 | 69.6 | 1.2 | | |
| 146.7 | 146.6 | 1.2 | | |
| 396.9 | 395.9 | 1.5 | | |
| 397.6 | 397.6 | 1.5 | | |
| 439.3 | 439.2 | 1.4 | | |
| 440.9 | 440.9 | 1.4 | | |
| 2,396.7 | 2,393.3 | 7.2 | | |
| 2,398.3 | 2,394.9 | 7.2 | | |
| 2,439.6 | 2,435.9 | 7.5 | | |
| 2,441.3 | 2,437.5 | 7.5 | | |
| 5,850.1 | 8,864.7 | 3.9 | | |
| 8,950.5 | 8,865.0 | 3.9 | | |
| 8,966.3 | 8,881.3 | 4.4 | | |
| 8,969.2 | 8,883.6 | 4.5 | | |
| 8,970.1 | 8,884.6 | 4.5 | | |
| 8,975.4 | 8,889.8 | 4.7 | | |
| 8,977.0 | 8,891.5 | 4.7 | | |
| 9,814.0 | 9,459.3 | 78.6 | | |
| 9,815.3 | 9,459.5 | 78.7 | | |
| 9,856.6 | 9,466.6 | 80.2 | | |
| 9,859.3 | 9,466.9 | 80.3 | | |
| 9,866.1 | 9,468.2 | 80.6 | | |
| 14,574.1 | 9,486.3 | 90.2 | | |
| 14,577.4 | 9,486.3 | 90.2 | | |
| 14,618.6 | 9,486.2 | 90.2 | | |
| 14,621.1 | 9,486.2 | 90.2 | | |
| 14,632.9 | 9,486.1 | 90.2 | | |

Directions to Well: FROM THE MARATHON OFFICE AT 411 TIDWELL ROAD, OTIS, NEW MEXICO, HEAD SOUTH ON TIDWELL ROAD TOWARD U.S. HIGHWAY 285 FOR 0.2 MILES. TURN LEFT ON U.S. HIGHWAY 285 SOUTH HEADING SOUTH FOR 5.9 MILES TO A CALICHE ROAD. TURN RIGHT ON CALICHE ROAD HEADING SOUTHWEST, CROSSING A CATTLE GUARD, FOR 0.4 MILES TO THE PROPOSED LEASE ROAD FOR MARINER FEE 23-28-19 WELL LOCATIONS. TURN LEFT ON PROPOSED LEASE ROAD FOR 0.3 MILES ENTERING THE NORTHEAST CORNER OF THE MARINER FEE 23-28-19 WELL LOCATIONS.