

## Wellbore Schematic

Well Name: MARINER FEE 23 28 20 WXY 18H

|                                       |                                |                           |                                   |                                  |                           |                              |
|---------------------------------------|--------------------------------|---------------------------|-----------------------------------|----------------------------------|---------------------------|------------------------------|
| State/Province<br>NEW MEXICO          | Prospect Area<br>MALAGA        | Field Name<br>PURPLE SAGE | Well Subtype                      | Lat/Long Datum<br>NAD27          | Latitude (°)<br>32.283973 | Longitude (°)<br>-104.113023 |
| Well Configuration Type<br>HORIZONTAL | Well Objective<br>EXPLOITATION | Well Status<br>DRILLING   | Ground Elevation (ft)<br>3,075.00 | KB-Ground Distance (ft)<br>26.50 |                           |                              |

### HORIZONTAL - MARINER FEE 23 28 20 WXY.18H, 6/5/2018, 11:01:15 AM

| MD (ftKB) | TVD (ftKB) | Incl (°) | Vertical schematic (actual)  |
|-----------|------------|----------|--|
| -5.5      | -5.6       | 0.0      |  |
| -5.2      | -5.2       | 0.0      |  |
| 0.0       | 0.0        | 0.0      |  |
| 2.5       | 2.6        | 0.0      |  |
| 26.5      | 26.6       | 0.1      |  |
| 23.9      | 28.9       | 0.1      |  |
| 31.2      | 31.2       | 0.2      |  |
| 33.1      | 33.1       | 0.2      |  |
| 146.7     | 146.6      | 0.7      |  |
| 493.4     | 493.4      | 0.5      | <p>Des: Conductor Cement; Depth MD:26.5-146.5 ftKB; Date:3/1/2018</p> <p>Des: Surface Casing Cement; Depth MD:26.5-493.4 ftKB; Date:4/3/2018</p> <p>Des: Intermediate Casing Cement; Depth MD:26.5-2,402.0 ftKB; Date:4/5/2018</p>   |
| 2,315.0   | 2,314.5    | 3.4      |  |
| 2,315.3   | 2,315.8    | 3.4      |  |
| 2,400.3   | 2,399.7    | 3.1      | <p>Des: Intermediate Casing Cement; Depth MD:26.5-9,887.0 ftKB; Date:4/13/2018</p>   |
| 2,401.9   | 2,401.3    | 3.1      |  |
| 5,845.1   | 8,749.3    | 2.5      |  |
| 5,845.3   | 8,749.9    | 2.5      | <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:26.5-493.4 ftKB; Length:466.90 ft</p> <p>No.3; Des: Intermediate 1; OD:9.625 in; ID:8.835 in; Depth MD:26.5-2,402.0 ftKB; Length:2,375.50 ft</p> |
| 5,875.3   | 8,776.5    | 2.7      |  |
| 5,895.0   | 8,796.1    | 2.9      |  |
| 9,790.7   | 9,461.0    | 81.7     | <p>Des: Liner Cement; Depth MD:8,848.0-14,304.0 ftKB; Date:5/25/2018</p>   |
| 9,792.3   | 9,461.3    | 81.8     |  |
| 9,805.5   | 9,470.3    | 86.0     |  |
| 9,837.1   | 9,470.4    | 86.1     | <p>No.4; Des: Intermediate 2; OD:7.000 in; ID:6.184 in; Depth MD:26.5-9,887.0 ftKB; Length:9,860.50 ft</p>   |
| 9,890.0   | 9,471.2    | 86.4     |  |
| 14,200.5  | 9,442.4    | 90.6     |  |
| 14,204.1  | 9,442.3    | 90.5     |  |
| 14,251.5  | 9,442.1    | 89.6     |  |
| 14,253.3  | 9,442.1    | 89.6     |  |
| 14,254.9  | 9,442.2    | 89.6     | <p>No.5; Des: Liner 1; OD:4.500 in; ID:3.920 in; Depth MD:8,848.6-14,304.0 ftKB; Length:5,455.39 ft</p>  |
| 14,301.5  | 9,442.5    | 89.6     |  |
| 14,304.1  | 9,442.5    | 89.6     |  |

Directions to Well: FROM THE INTERSECTION OF U.S. HIGHWAY 62/WEST GREENE STREET AND U.S. 180 W/U.S. 62 W/S. CANAL STREET IN CARLSBAD, NEW MEXICO, TRAVEL SOUTH ON U.S. 62 W/S. CANAL STREET TOWARD W. TANSILL STREET FOR 2.0 MILES TO SLIGHT LEFT ONTO U.S.-285 SOUTH. TRAVEL SOUTH ON U.S.-285 SOUTH FOR 10.4 MILES TO JAYDERS ROAD/CO. RD. 730 ON THE RIGHT. TRAVEL WEST ON JAYDERS ROAD/CO. RD. 730 FOR 0.7 MILES TO PROPOSED WELLS 233 FEET ON THE RIGHT.