

Wellbore Schematic

Well Name: MARINER FEE 23 28 20 WXY 18H

State/Province NEW MEXICO	Prospect Area MALAGA	Field Name PURPLE SAGE	Well Subtype	Lat/Long Datum NAD27	Latitude (°) 32.283973	Longitude (°) -104.113023
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION	Well Status DRILLING	Ground Elevation (ft) 3,075.00	KB-Ground Distance (ft) 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)
-5.6	-5.6	0.0	
-5.2	-5.2	0.0	
0.0	0.0	0.0	
2.6	2.6	0.0	
26.6	26.6	0.1	
28.9	28.9	0.1	
31.2	31.2	0.2	
33.1	33.1	0.2	
146.6	146.6	0.7	Des: Conductor Cement; Depth MD:26.5-146.5 ftKB; Date:3/1/2018
493.4	493.4	0.5	Des: Surface Casing Cement; Depth MD:26.5-493.4 ftKB; Date:4/3/2018
2,314.5	2,314.5	3.4	Des: Intermediate Casing Cement; Depth MD:26.5-2,402.0 ftKB; Date:4/5/2018
2,315.8	2,315.8	3.4	
2,399.7	2,399.7	3.1	
2,401.3	2,401.3	3.1	Des: Intermediate Casing Cement; Depth MD:26.5-9,887.0 ftKB; Date:4/13/2018
8,749.3	8,749.3	2.5	
8,749.9	8,749.9	2.5	
8,776.5	8,776.5	2.7	
8,796.1	8,796.1	2.9	
9,461.0	9,461.0	81.7	
9,461.3	9,461.3	81.8	
9,470.3	9,470.3	86.0	
9,470.4	9,470.4	86.1	No.:1; Des: Conductor 1; OD:20.000 in; ID:19.000 in; Depth MD:26.5-146.5 ftKB; Length:120.00 ft
9,471.2	9,471.2	86.4	No.:2; Des: Surface; OD:13.375 in; ID:12.615 in; Depth MD:26.5-493.4 ftKB; Length:466.90 ft
9,442.4	9,442.4	90.6	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
9,442.3	9,442.3	90.5	
9,442.1	9,442.1	89.6	
9,442.1	9,442.1	89.6	
9,442.2	9,442.2	89.6	
9,442.5	9,442.5	89.6	
9,442.5	9,442.5	89.6	Des: Liner Cement; Depth MD:8,848.0-14,304.0 ftKB; Date:5/25/2018
			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
			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

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.