

Challenger Rayroux No. 1
660' FSL & 660' FEL
Section 19, T-21-S, R-27-E
Burton Flat Field
Eddy County, New Mexico

PURPOSE: Add pay in Morrow Zone.

AFE NO.: 44684

ELEVATION: 3168' KB; 3147' GL

TOTAL DEPTH: 11,600' **PBTD:** 11,328' **DV-TOOL:** 9,997'

SURFACE CASING: 13 3/8", 48#/ft, N-40, ST&C set @ 500'. Cemented with 200 sxs of "Thick Set" and 600 sx of Class "C". Topped off cementing by pumping 75 sxs Class "C" down 1" pipe. Circulated cement to pit.

INTERMEDIATE CASING: 8 5/8", 32 & 23#/ft, K-55, ST&C set @ 2,865'. Cemented with 300 sxs "Thick Set" with 1200 sxs of 35/65 poz followed by 200 sxs of "Class C". Circulated cement to pit.

PRODUCTION CASING: 4 1/2", 13.5 & 11.6#/ft, N-80, LT&C set @ 11,600 with DV-Tool @ 9997'. Cemented 1st stage w/378 sxs "H" 50/50 poz. Cemented 2nd stage w/534 sxs "H" 50/50 poz. Top of cement @ 7682'.

PRODUCTION TUBING/BHA: 361 jts of 2 3/8", 4.7#/ft N-80 EUE tubing, sliding sleeve (closed @ 8944'), ER receptacle, Model F nipple (1.875") & Guiberson Uni VI set @ 11,148'.

PERFORATIONS: Wolfcamp: 8,936-64', 1 SPF - Casing side
Morrow: 11,198-202', 11,228-18', 11,268-274', 11,282-88' and 11,306-320', 1 SPF - Tubing side.

SAFETY: Maximum potential surface pressure.

<u>Formation</u>	<u>Surface Pressure</u>	<u>Producing Rate</u>	<u>H2S</u>
Wolfcamp	800 psi*	20 MCFD	No
Morrow	770 psi*	160 MCFD	No
Morrow (proposed)	2500 psi	500 MCFD	No

*Two day shut-in tbq pressure.

1. Inspect location and test safety anchors. MIRU pulling unit.
2. RIH and set selective tubing plug in profile nipple @ 11,148'. Blow tbq down, check for flow. Load tubing w/2% KCl water and kill Wolfcamp w/2% KCl water.
3. ND wellhead. NU 6" 1500 series hydraulic BOP. Unlatch ER receptacle and pull out of hole w/ tubing and downhole assembly.
4. RIH w/pkr, plug and test blinds and pipe rams to maximum working pressure.