

SUPPLEMENTAL TO APD FOR  
Rustler Bluff Federal No. 1  
NM 53229  
Sec. 29, T24S, R29E  
Eddy County, NM

<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Weight Per Foot</u>	<u>Setting Depth</u>	<u>Quantity of Cement</u>
17-1/2"	13-3/8"	48# H-40 ST&C	600'	635 sx Prem Plus w/2% CaCl; 14.8#/gal slurry, 1.32 cuft/sx, water ratio 16.35 gals/sx This cement blend was designed to circulate from 600' to surface; the calculations incorporate 100 percent excess.
11"	8-5/8"	24# J or K-55 ST&C 32# J or K-55 ST&C	2800'	450 sx Prem Plus w/20% Diacel D, 3% Salt, 12.0#/gal slurry, 2.78 cuft/sx, water ratio 16.35 gals/sx; tail in with 150 sx Prem Plus w/2% CaCl, 14.8#/gal slurry, 1.32 cuft/sx Water Ratio 6.3 gals/sx. These cement blends were designed to circulate from 2800' to surface. The calculations incorporate 100% excess.
7-7/8"	5-1/2"	15.5# J or K-55 ST&C	7500'	1st stage w/multiple stage cmt at +/-5500' Mix 400 sx Prem Plus w/0.5% Halad-322, slurry 14.8#/gal, 1.32 cuft/sx, water ratio 6.3 gals/sx. This cement blend was designed to circulate from 7500' to 5500'; the calculations incorporate 50% excess.  2nd stage w/multiple stage cmt at 5500' Mix 325 sx Prem Plus w/20% Diacel D, slurry 12.0#/gal, 2.78 cuft/sx, water ratio 16.35 gals/sx; tail in w/400 sx Prem Plus 14.8#/gal slurry, 1.32 cuft/sx, water ratio 6.3 gals/sx. These cement blends were designed to circulate from 5500' to surface with the tail-in slurry top at +/- 3500'. The calculations incorporate 50% excess.

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