

SYSTEM	ROCK UNIT		DESCRIPTION	
CRETACEOUS SYSTEM	MESA VERDE GROUP	Dalton Sandstone Member	Massive clean white to buff, medium to coarse-grained sandstone. This sand outcrops at the site; forms cap of Ram Mesa. Regressive coastal barrier sand. Gradational with Mulatto tongue.	
		Mulatto Tongue	Chiefly dark gray mudstone and silty sandstone with scattered thin beds of sandstone. Disconformable with Dilco Coal. Offshore marine deposit.	
		Dilco Coal Member	Paludal and fluvial deposits. Chiefly irregular buff to gray medium-grained sandstone, light gray clay, and lenticular coal beds and carbonaceous shales. Interfingered with underlying Gallup sandstone. Mill site complex lies in this member.	
		1st Gallup Sandstone Member	Predominantly a light gray to buff, fine to coarse-grained sandstone interbedded with gray siltstone and mudstone, and minor amounts of coal. Coastal barrier deposit.	
		Upper D-Cross Tongue	Sandy marine shales and thin lenticular sandstones. Transgressive marine deposits.	
	Gallup Formation	2nd Gallup Sandstone Member	Generally buff to light gray, fine-grained and silty becoming gradually finer grained towards the base merging with the rather thick transitional zone which comprises the upper 100 ft or so of the underlying Mancos Shale. Regressive, littoral or nearshore deposits.	
		Lower D-Cross Tongue	Fissile shale with calcareous zone. Thin sandstone and/or siltstone beds. Late Cretaceous subregional marine transgression.	
		Mancos Shale Formation	Limey medium gray to black marine shale interbedded infrequently with platy laminated light gray to grayish-yellow to white limestone and gypsum.	
			Two Wells Sandstone Member	
			Dakota Formation	Continental and marginal marine. Uniformly fine-grained well sorted gray to pure white sandstone, with some interbedded siltstone and coal.
JURASSIC SYSTEM	Morrison Formation	Brushy Basin Member	A green to grayish-green mudstone of continental deposition, split occasionally by discontinuous sandstone lenses.	
		Poison Canyon		
		Westwater Canyon Sandstone Member	Gray to light grayish-red to yellowish-gray, locally conglomeritic fine to coarse-grained sandstone characterized by scour-and-fill crossbedding and by angular grains of unweathered feldspar. Discontinuous lenses of grayish-green sandy mudstone are present.	
		Cowsprings Sandstone Member	Chiefly gray to light yellowish-gray, fine to medium-grained sandstone with some interbedded siltstone.	

0	Issued for Review	4/03	M.Ross	N.Gonzalez	J.Redmond
REV. No.	REVISIONS	REV. DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
PROJECT No.: 1003717			AutoCAD FILE: GEOLOGY-FIG3		
SCALE: Not to Scale			FIGURE No. 3		

UNITED NUCLEAR CORPORATION

NORTHEAST CHURCH ROCK MINE  
SITE STRATIGRAPHIC COLUMN

