

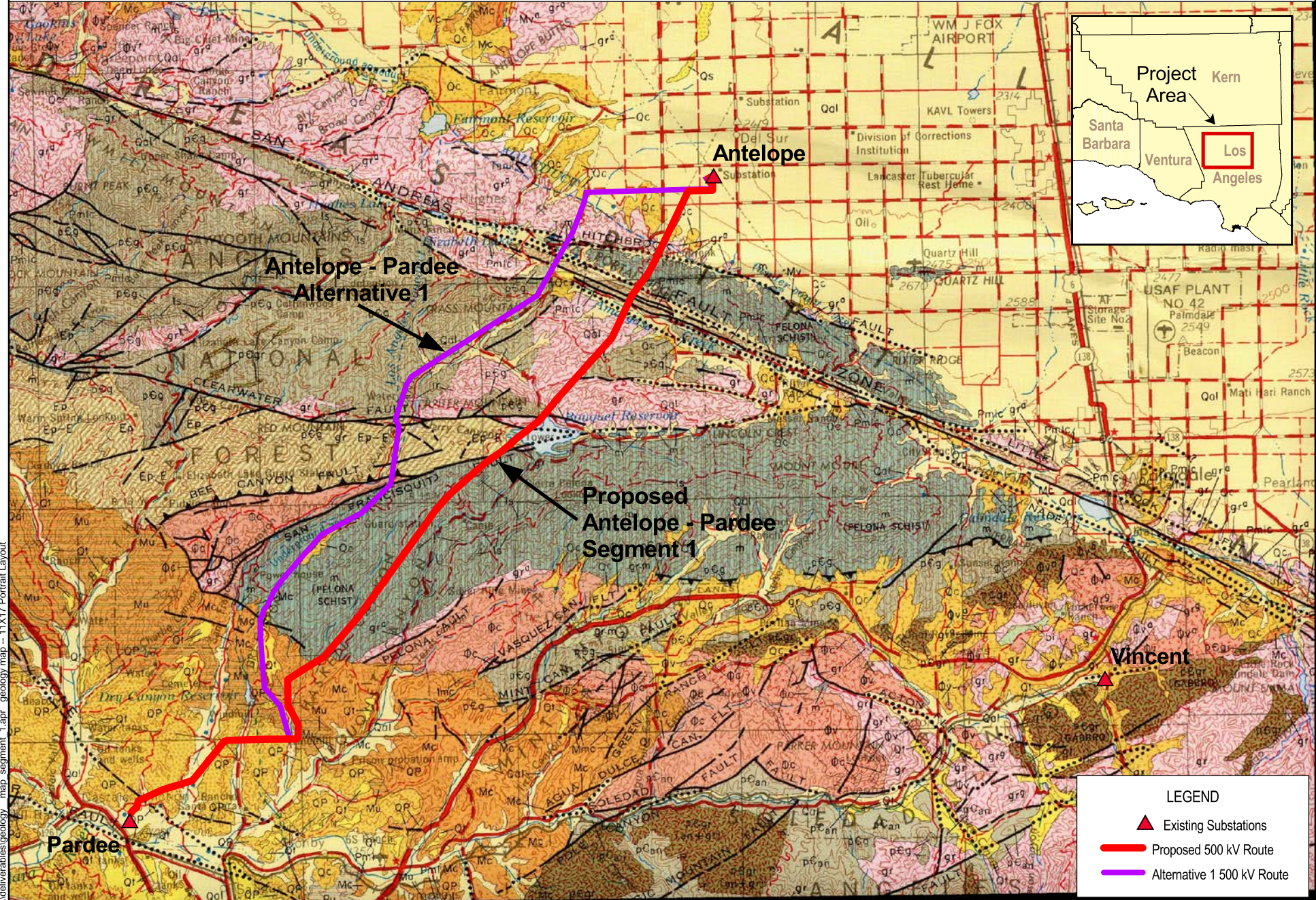
EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

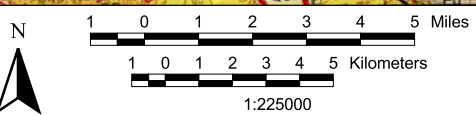
IGNEOUS AND META-IGNEOUS ROCKS

QUATERNARY	Recent	Qs	Dune sand	GREAT VALLEY	Recent volcanic: Q _v ^r - rhyolite; Q _v ^a - andesite; Q _v ^b - basalt; Q _v ^p - pyroclastic rocks	Undivided	Q _{tc}	Cenozoic nonmarine	Q _{tv}	Cenozoic volcanic: Q _{tv} ^r - rhyolite; Q _{tv} ^a - andesite; Q _{tv} ^b - basalt; Q _{tv} ^p - pyroclastic rocks	
		Qal	Alluvium				T _{3c}	Tertiary nonmarine	T _{3g}	Tertiary granitic rocks	
		Qsc	Stream channel deposits				T _{3l}	Tertiary lake deposits	T _{3i}	Tertiary intrusive (hypabyssal) rocks: T _{3i} ^r - rhyolite; T _{3i} ^a - andesite; T _{3i} ^b - basalt	
		Qf	Fan deposits				T _{3m}	Tertiary marine	T _{3v}	Tertiary volcanic: T _{3v} ^r - rhyolite; T _{3v} ^a - andesite; T _{3v} ^b - basalt; T _{3v} ^p - pyroclastic rocks	
		Qb	Basin deposits								
		Qst	Salt deposits								
		Ql	Quaternary lake deposits								
		Qg	Glacial deposits								
		Qt	Quaternary nonmarine terrace deposits								
		Qm	Pleistocene marine and marine terrace deposits								
PLEISTOCENE		Qc	Pleistocene nonmarine								
		Qp	Plio-Pleistocene nonmarine								
	Pliocene		Pc	Undivided Pliocene nonmarine							
			Puc	Upper Pliocene nonmarine							
			Pu	Upper Pliocene marine							
			Pmk	Middle and/or lower Pliocene nonmarine							
			Pml	Middle and/or lower Pliocene marine							
			Pm	Undivided Miocene nonmarine							
			Puc	Upper Miocene nonmarine							
			Pu	Upper Miocene marine							
		Pmc	Middle Miocene nonmarine								
		Pml	Middle Miocene marine								
MIOCENE		Mm	Lower Miocene marine								
		Mc	Undivided Miocene nonmarine								
		Muc	Upper Miocene nonmarine								
		Mu	Upper Miocene marine								
		Mmc	Middle Miocene nonmarine								
		Mm	Middle Miocene marine								
		Ml	Lower Miocene marine								
	OLIGOCENE		Oc	Oligocene nonmarine							
			o	Oligocene marine							
		Eocene		Ec	Eocene nonmarine						
			e	Eocene marine							
			Epc	Paleocene nonmarine							
			Ep	Paleocene marine							
PALEOCENE				Ep	Paleocene nonmarine						
				ep	Paleocene marine						
				Qv	Oligocene volcanic: Q _v ^r - rhyolite; Q _v ^a - andesite; Q _v ^b - basalt; Q _v ^p - pyroclastic rocks						
				Mv	Miocene volcanic: M _v ^r - rhyolite; M _v ^a - andesite; M _v ^b - basalt; M _v ^p - pyroclastic rocks						
			Ev	Eocene volcanic: E _v ^r - rhyolite; E _v ^a - andesite; E _v ^b - basalt; E _v ^p - pyroclastic rocks							
			Q _v ^r	Recent volcanic: Q _v ^r - rhyolite; Q _v ^a - andesite; Q _v ^b - basalt; Q _v ^p - pyroclastic rocks							
		Q _v ^a	Recent volcanic: Q _v ^a - andesite; Q _v ^b - basalt; Q _v ^p - pyroclastic rocks								
		Q _v ^b	Recent volcanic: Q _v ^b - basalt; Q _v ^p - pyroclastic rocks								
		Q _v ^p	Recent volcanic: Q _v ^p - pyroclastic rocks								
		Q _v ^r	Recent volcanic: Q _v ^r - rhyolite; Q _v ^a - andesite; Q _v ^b - basalt; Q _v ^p - pyroclastic rocks								
MESOZOIC	CRETACEOUS	K	Undivided Cretaceous marine								
		Ku	Upper Cretaceous marine								
		Kl	Lower Cretaceous marine								
	JURASSIC	Jk	Knoxville Formation								
		Ju	Upper Jurassic marine								
		Jml	Middle and/or Lower Jurassic marine								
	TRIASSIC	Jm	Middle and/or Lower Jurassic marine								
		T	Triassic marine								
	PALEOZOIC	UNDIVIDED	ls	Pre-Cretaceous metamorphic rocks (ls = limestone or dolomite)							
			ms	Pre-Cretaceous metasedimentary rocks							
p			Paleozoic marine (ls = limestone or dolomite)								
PERMIAN		ri	Permian marine								
		c	Undivided Carboniferous marine								
		cp	Pennsylvanian marine								
CARBONIFEROUS		cm	Mississippian marine								
		d	Devonian marine								
		s	Silurian marine								
DEVONIAN		ps	Pre-Silurian meta-sedimentary rocks								
	o	Ordovician marine									
	c	Cambrian marine									
SILURIAN	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
ORDOVICIAN	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
CAMBRIAN	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
PRECAMBRIAN	UNDIVIDED	pc	Undivided Precambrian metamorphic rocks (cg = gneiss, cs = schist)								
		lpc	Later Precambrian sedimentary and metamorphic rocks								
		epc	Earlier Precambrian metamorphic rocks								
	SILURIAN	ps	Pre-Silurian meta-sedimentary rocks								
		o	Ordovician marine								
		c	Cambrian marine								
	DEVONIAN	ps	Pre-Silurian meta-sedimentary rocks								
		o	Ordovician marine								
		c	Cambrian marine								
	CARBONIFEROUS	ps	Pre-Silurian meta-sedimentary rocks								
o		Ordovician marine									
c		Cambrian marine									
PERMIAN	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
TRIASSIC	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
JURASSIC	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									
CRETACEOUS	ps	Pre-Silurian meta-sedimentary rocks									
	o	Ordovician marine									
	c	Cambrian marine									

HEAVY BORDER ON BOXES INDICATES UNITS THAT APPEAR ON THIS SHEET



C:\Tehachapi_PEA\deliverables\geology_map_segment_1.apr geology_map -- 11X17 Portrait Layout



Antelope Transmission Project PEA -- Segment 1

Figure 4.7-1. REGIONAL GEOLOGY MAP

2004