Productivity Index (PI) Comparison
MCPO Route and Channon Hybrid Route
for the 150-feet Easement Area
Mt. Zion to Kansas

Route	Substation Site	Route Length	Route Acres* 18.18 per Mile	Route Acres** PI Mapping	Class A Acres	Class A Percent
MCPO Mapping	ATXI			1,196.42	930.60	77.8
MCPO	ATXI	69.2	1,258.06		978.77	
Channon Hybrid Mapping	Staff Option 1			1,063.73	794.02	74.6
Channon Hybrid	Staff Option 1	61.2	1,112.62		830.01	

Summary and Comparison of PI and prime acres (sum of Class A, B and C) for MCPO and Channon Hybrid
MCPO Weighted PI = 135.43 Prime Acres 1238
Channon Hybrid Weighted PI = 134.46 Prime Acres 1088

* For a 150-feet easement area the calculated acres per mile are 18.18.
5280 ft/mile x 150 ft / 43,560 sq ft/ acre = 18.18 acres/mile

** The bounding process for drawing the easement area resulted in a small difference in acerage. The PI will vary only slightly or not at all near the borders of the area bounded for mapping. Therefore, percentages for each soil class, as determined by mapping, were multiplied by a route's total easement acres to determine the number of acres per soil class.

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Route	Substation Site	Class B		Class C		Other	
		Acres	Percent	Acres	Percent	Acres	Percent
MCPO PI Mapping	ATXI	203.25	17.0	42.62	3.6	19.95	1.7
MCPO	ATXI	213.87		45.29		21.39	
Channon Hybrid Mapping	Staff Option 1	208.46	19.6	38.74	3.6	22.51	2.1
Channon Hybrid	Staff Option 1	218.07		40.05		23.36	