

## Dragos 7-25-69-6W6 - Cardium Formation

### Projected Injection Volumes (m³)

Injection Rate (m³/hr)	# of Years			
	5	10	15	20
5	219,000	438,000	657,000	876,000
10	438,000	876,000	1,314,000	1,752,000
15	657,000	1,314,000	1,971,000	2,628,000
21	919,800	1,839,600	2,759,400	3,679,200

### Theoretical Area of Influence (meters)

Injection Rate (m³/hr)	# of Years			
	5	10	15	20
5	180	254	311	359
10	254	359	440	508
15	311	440	539	622
21	368	521	638	736

#### Constants

Pi 3.141593

#### Variables

Pay Thickness 12

Porosity 18%

#### Calculation

$$r = \sqrt{V / \pi \times \tau \times \emptyset}$$

r = Radius of Theoretical Drainage Area

$\pi$  = Pi

$\tau$  = Formation Pay Thickness

$\emptyset$  = Average Formation Porosity

V = Volume Injected into Formation

Based on 12 meters of porosity averaging 18% and 21 m³/hr (504 m³/d) for 20 years, the Area of Influence is 0.736 km.