APPLICATION OF: _____ PERMIT NO.: ____
LEASE NAME: _____ WELL NO.: ____
TYPE OF INSPECTION: ____ SECT. ___ TWP. ___ RANGE ___

Estimation of Zone of Endangering Influence

Specific Gravity = SP. GR. = _____ X .433 = _____ PSI/FT

(Hydrostatic Gradient)

Injection Rate	=	Q	= _____	B/D
Pay Thickness (EFF.)	=	h	= _____	FT.
Compressibility	=	c	= 7.5×10^{-6}	PSI^{-1}
Fluid Viscosity	=	μ	= 1.0	cps
Injection Time	=	t	= 7300	Days
Permeability	=	k	= _____	mds
Porosity	=	φ	= _____	%
Formation Volume Factor	=	β	= 1.0	
Initial Reservoir Pressure	=	P_i	= _____	PSI
Top of Injection Zone			= _____	FT.
Base of USDW			= _____	B/D

Reservoir Pressure (at Radius r) $P_r = P_i + 162.6 \frac{Q\mu\beta}{kh} \log \frac{kt}{(70.4\varphi\mu c r^2)}$

P_r = _____ + 162.6 (_____) log (_____)
_____ ( )
(70.4( )1.0(7.5×10^{-6}) ( )^2)

_____ 1 _____ = _____ 1 _____ = _____
FT./PSI.
Hydrostatic Gradient ( )

At r = 1 FT. P_r = _____ PSI x ____ = Hydrostatic Column
Hydrostatic Column = _____ FT.
At r = 10 FT. P_r = _____ PSI x _____ = Hydrostatic Column
Hydrostatic Column = _____ FT.
At r = 100 FT. P_r = _____ PSI x _____ = Hydrostatic Column
Hydrostatic Column = _____ FT.
At r = 1000 FT. P_r = _____ PSI x _____ = Hydrostatic Column
Hydrostatic Column = _____ FT.
At r = 1320 FT. P_r = _____ PSI x _____ = Hydrostatic Column
Hydrostatic Column = _____ FT.

Radius of Endangering Influence = _____ FT.
(From plot of Hydrostatic Column)