

Cómo generar un muestreo sistemático?, utilizando Hawpaths Tools en ArcGIS

Alba Lucina Martínez Haros



LOCALIZACION DE BARRENOS - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:4,000

Georeferencing inter_z88

Geostatistical Analyst

ETGW Help

Drawing

Anal

46.71

B I U A

Editor

HawthsTools

GPS Unit

Map

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756163.944 2883335.014 Meters

3D Analyst inter_z88

ES 11:05 a.m. 24/09/2016

Descargar Hawth's analisis tools

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Create Random Selection

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Generate Regular Points

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Generate Regularly Spaced Points

Conditional Point Sampling Tool

Create Vector Grid (line)

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Vector Geometry Random Iterative Spatial Resampling

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- Z9A
- Z9A

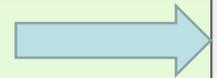
757103.746 2883350.889 Meters

11:06 a.m. 24/09/2016

www.fppt.info

Herramientas de muestreo, generar puntos regulares

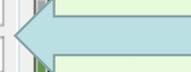
Insertar coordenadas de donde a donde se hara la cuadrícula



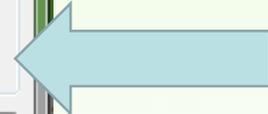
Separacion de cada punto en X y/o Y

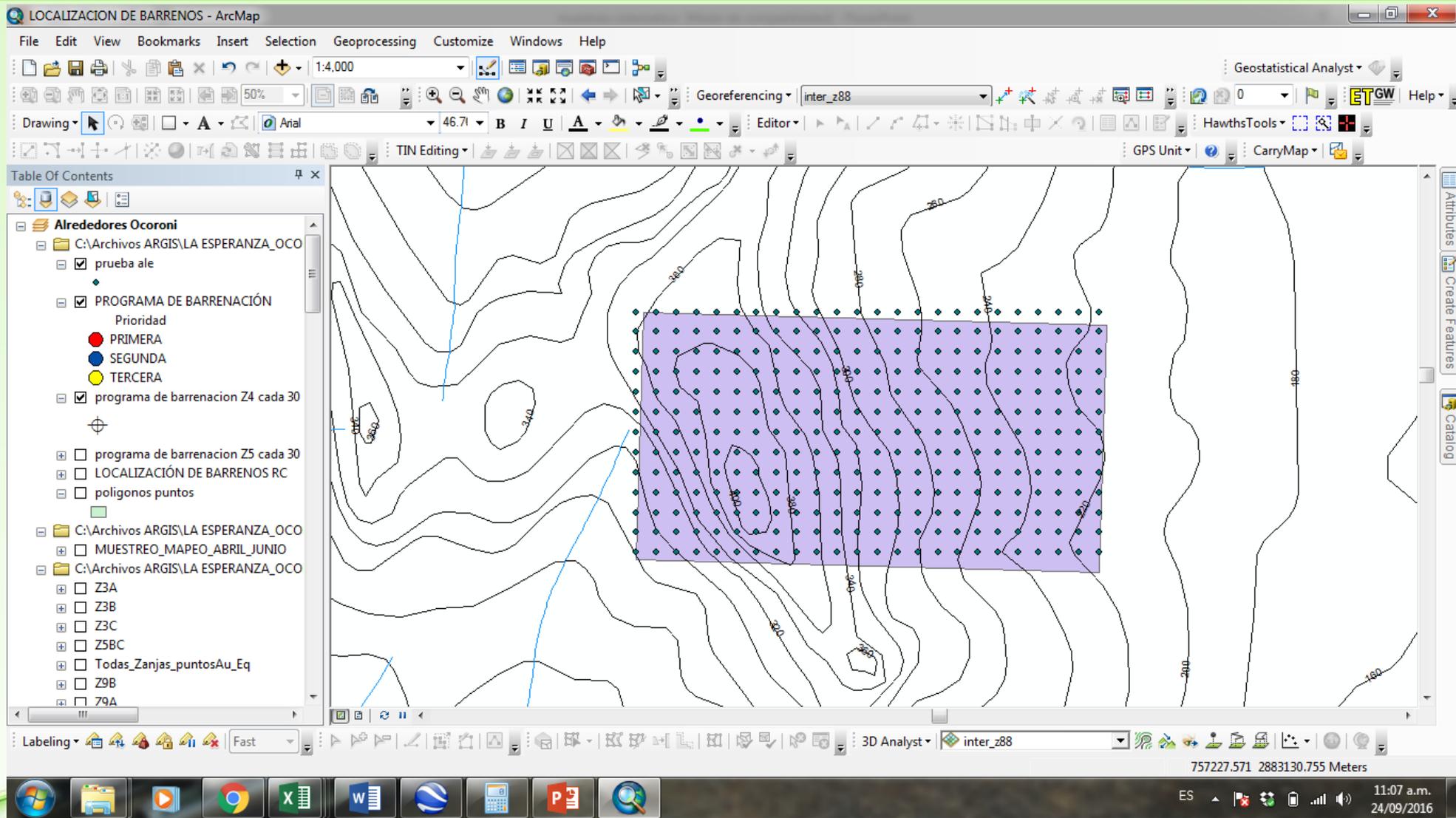


Layer en la que se hara la cuadrícula

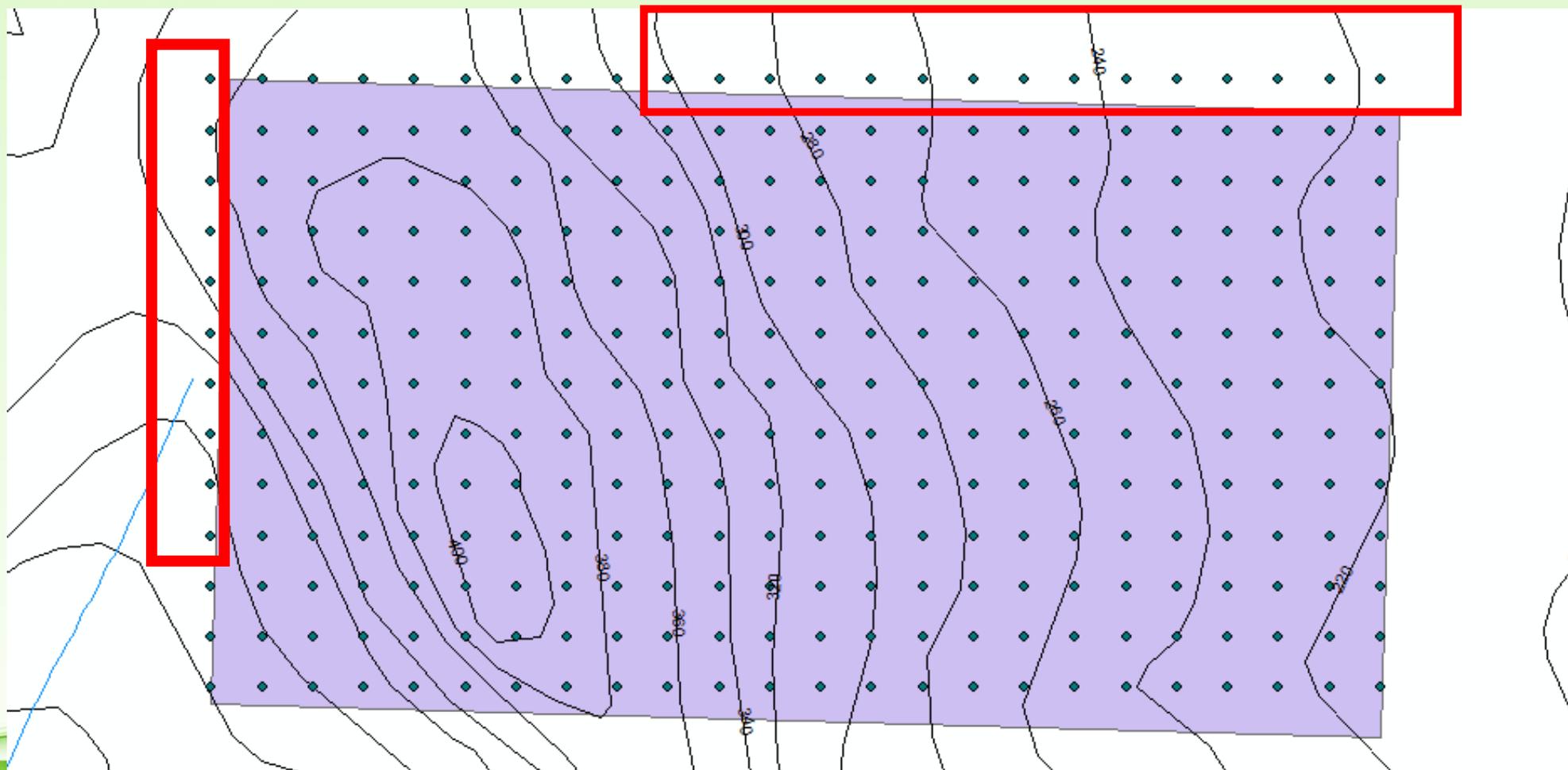


Donde se guardara el shapefile

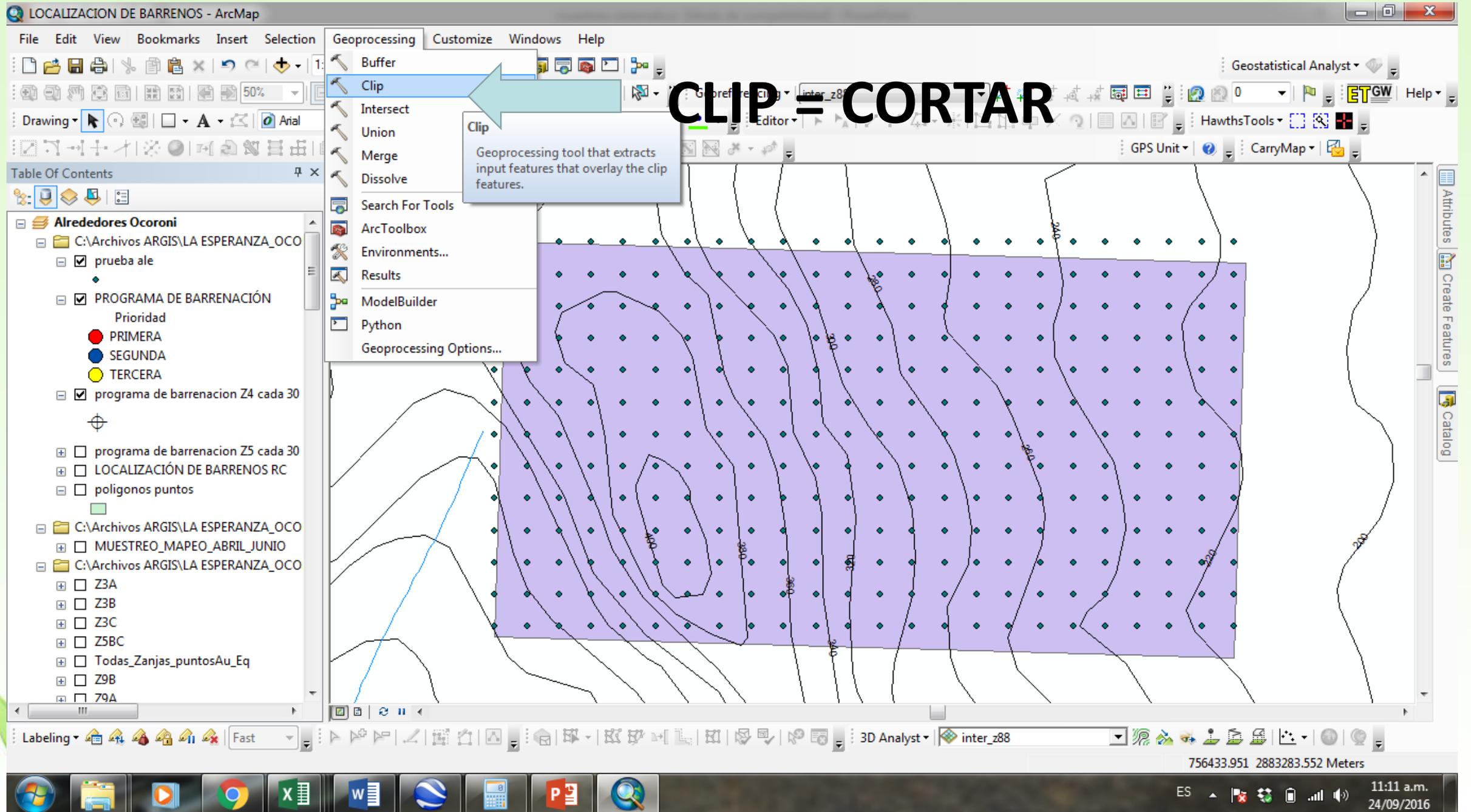


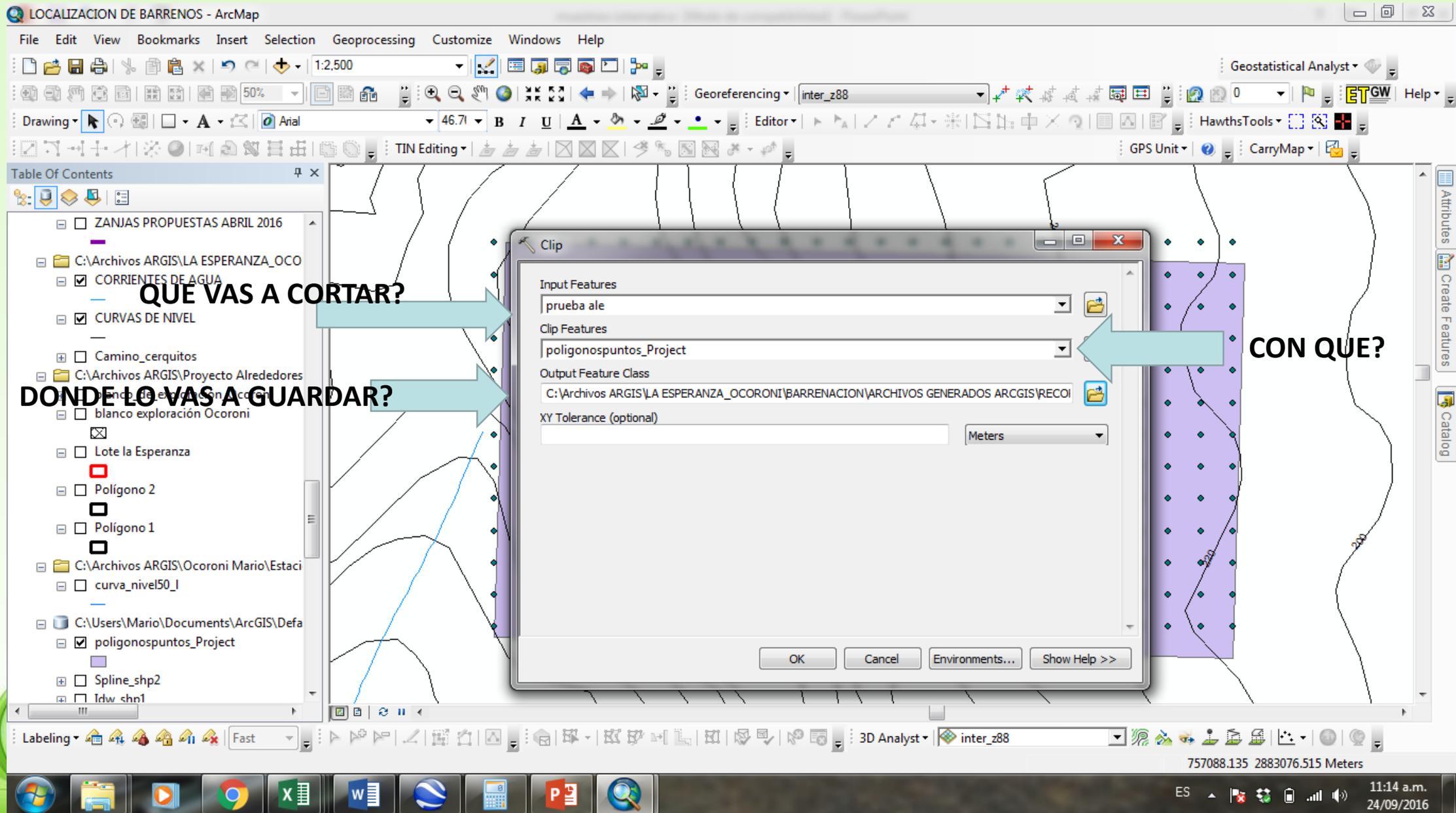


- Se generaron puntos entre el área comprendida en los distintos polígonos a una distancia de 20x20m



- Ahora recortaremos las muestras que se salen del polígono de interes





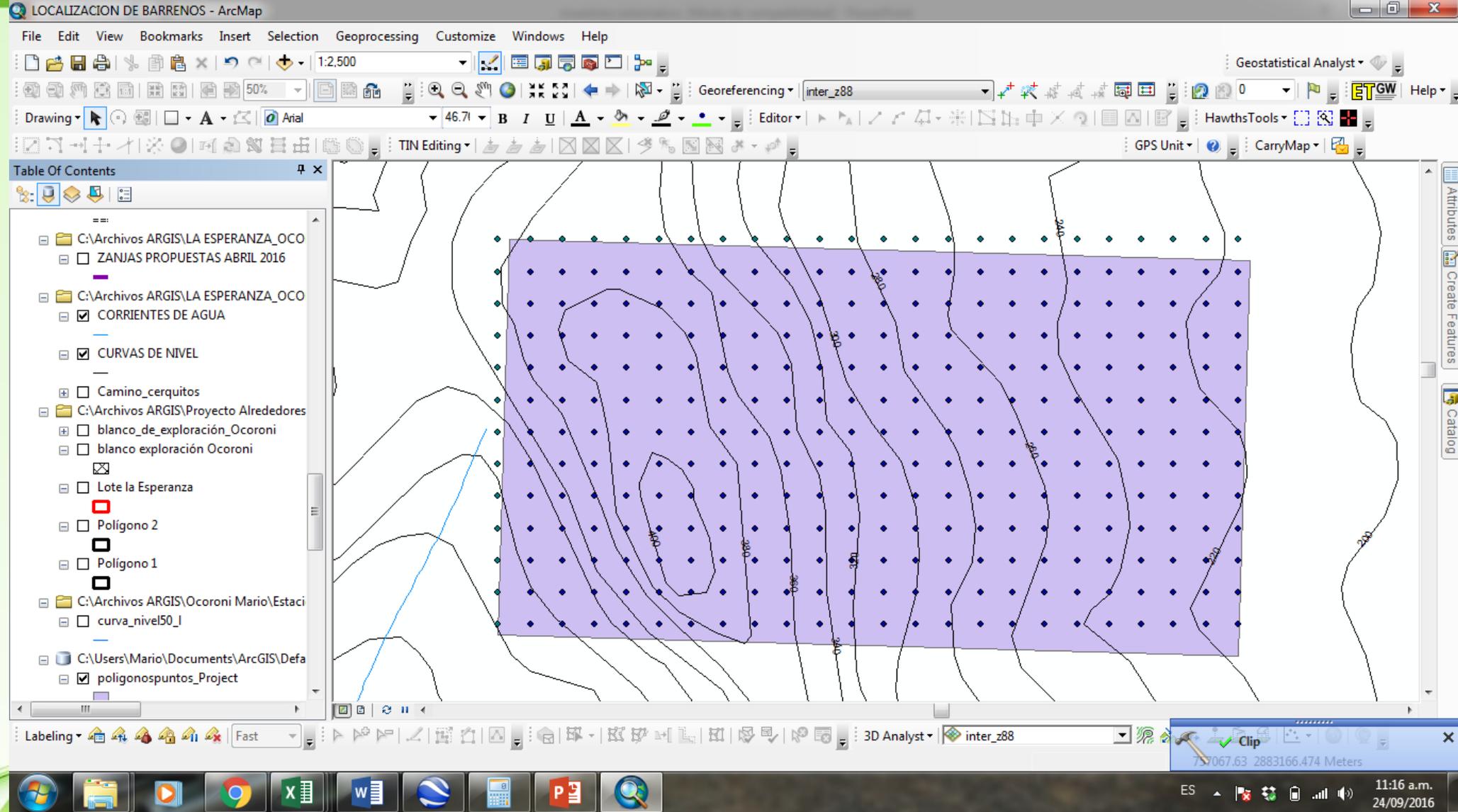
QUE VAS A CORTAR?

DONDE LO VAS A GUARDAR?

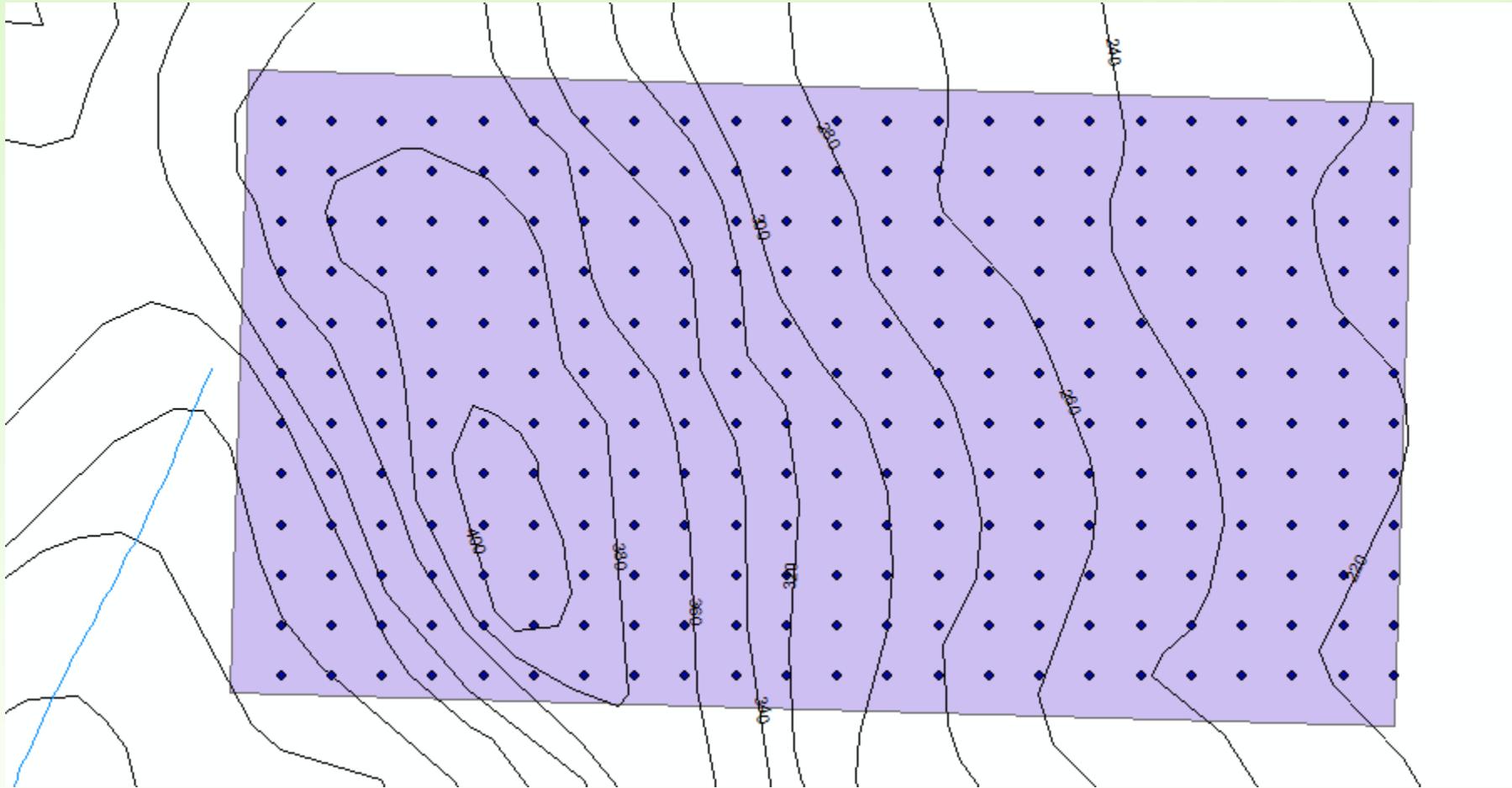
CON QUE?



757088.135 2883076.515 Meters
11:14 a.m.
24/09/2016

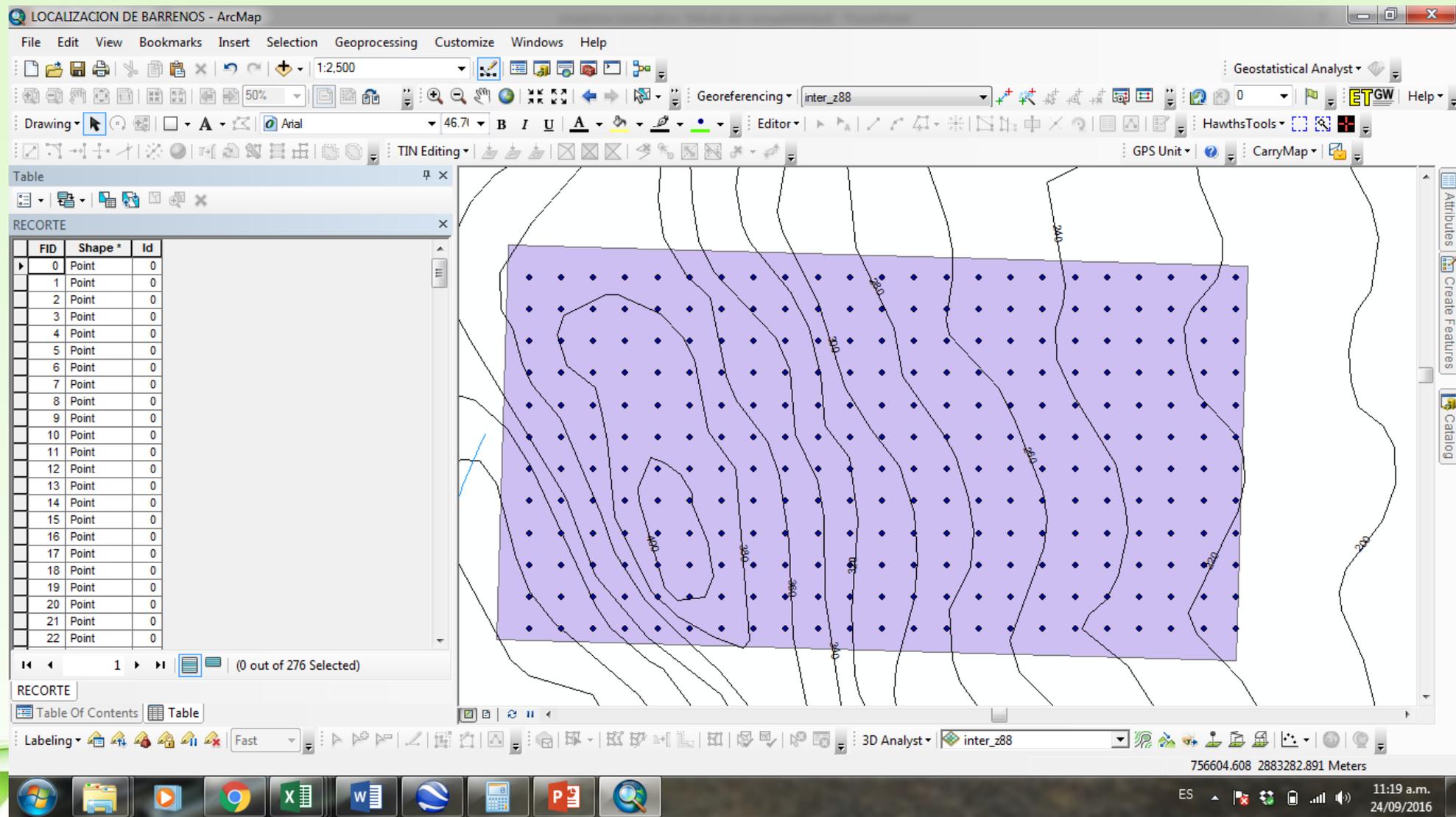


- Se generó el shapefile de puntos cortados con el polígono, solo hay que eliminar el anterior



- Listo!!
- Ahora ocupas las coordenadas de cada punto?





- Abres la tabla de atributo del shapefile

LOCALIZACION DE BARRENOS - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:2,500

Geostatistical Analyst

Georeferencing inter_z88

Drawing Arial 46.71 B I U A Editor

TIN Editing GPS Unit CarryMap

Table

- Find and Replace...
- Select By Attributes...
- Clear Selection
- Switch Selection
- Select All
- Add Field...**
- Turn All Fields Off
- Show Fields
- Arrange Fields
- Restore Default Column Widths
- Restore Default Field Order
- Joins and Relates
- Related Tables
- Create Graph...
- Add Table to Layout
- Reload Cache
- Print...
- Reports
- Export...
- Appearance...

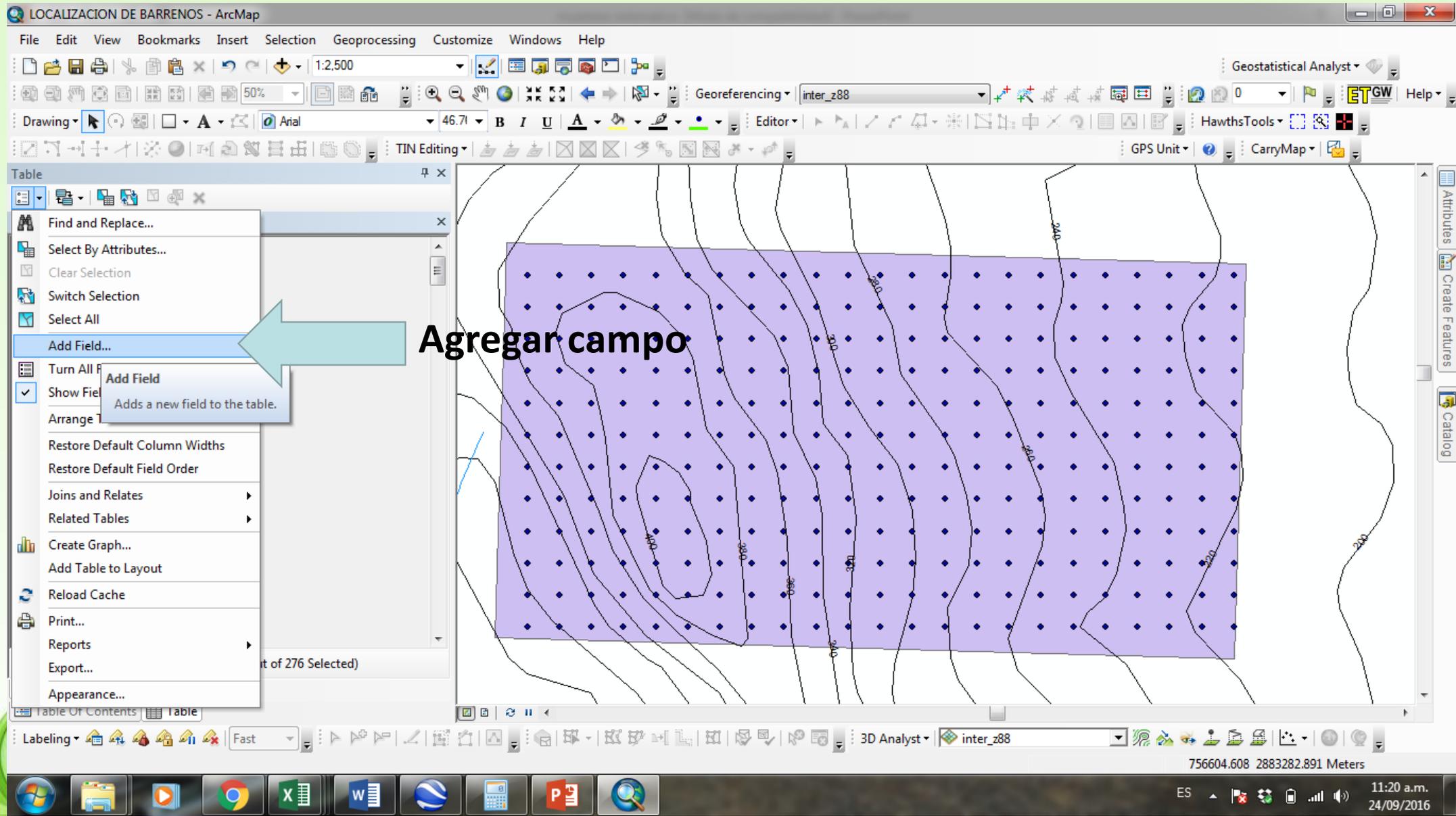
of 276 Selected)

Attributes Create Features Catalog

Labeling Fast 3D Analyst inter_z88

756604.608 2883282.891 Meters

ES 11:20 a.m. 24/09/2016



Agregar campo

LOCALIZACION DE BARRENOS - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

Geostatistical Analyst

Georeferencing inter_z88

Drawing Arial 46.71 B I U A Editor

TIN Editing GPS Unit CarryMap

Table RECORTE

FID	Shape*	Id
0	Point	0
1	Point	0
2	Point	0
3	Point	0
4	Point	0
5	Point	0
6	Point	0
7	Point	0
8	Point	0
9	Point	0
10	Point	0
11	Point	0
12	Point	0
13	Point	0
14	Point	0
15	Point	0
16	Point	0
17	Point	0
18	Point	0
19	Point	0
20	Point	0
21	Point	0
22	Point	0

DOBLE

Add Field

Name: X

Type: Double

Field Properties

Precision	0
Scale	0

OK Cancel

NOMBRE X COORDENADA

756505.389 2883157.875 Meters

11:21 a.m. 24/09/2016

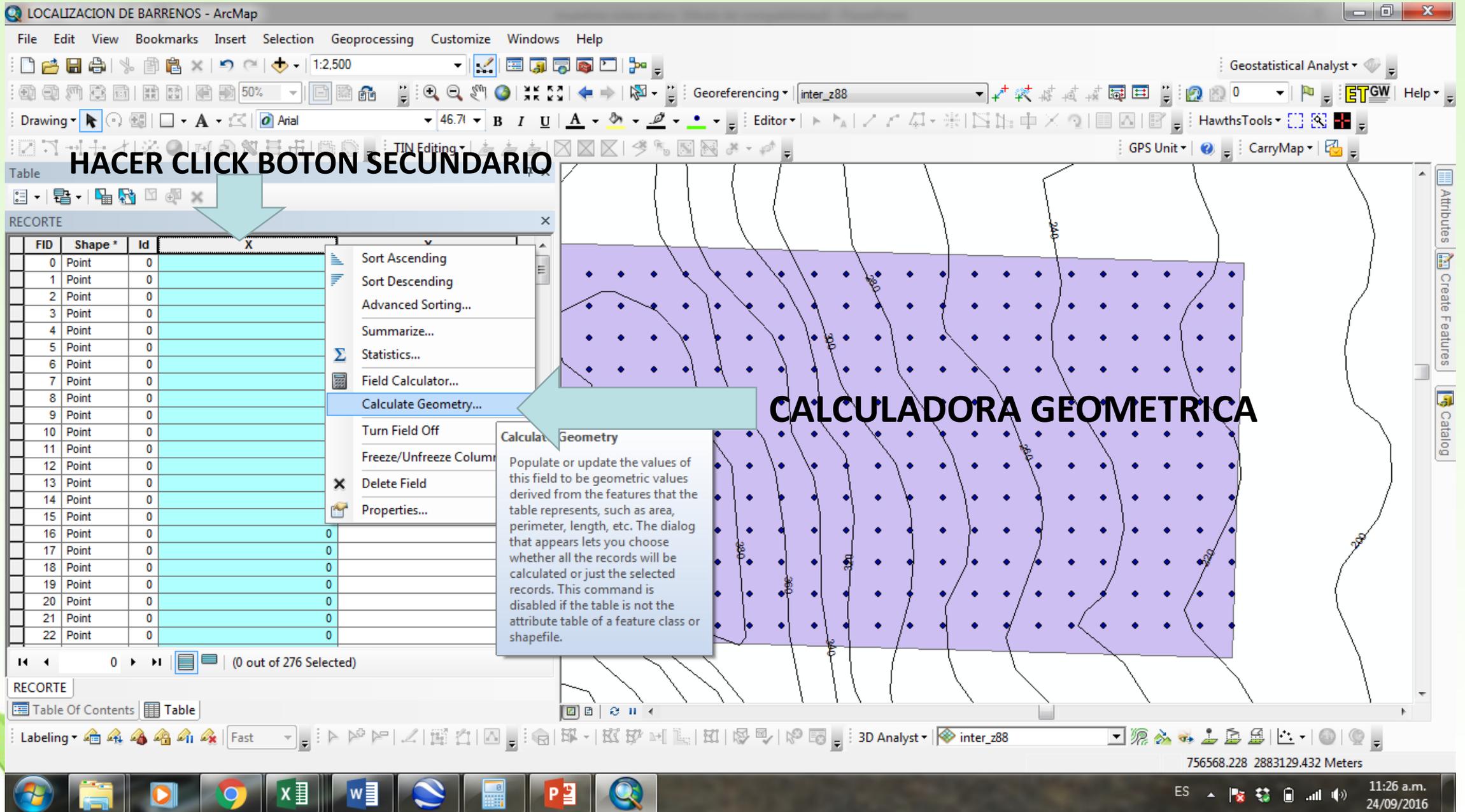
• HACER LO MISMO CON LA

COORDENADA UTM

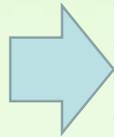
The screenshot shows the ArcMap interface with a map titled 'LOCALIZACION DE BARRENOS'. The map displays a grid of blue points overlaid on a purple shaded area, with contour lines labeled with values like 200, 300, and 400. The 'Table' window is open, showing a table with columns for FID, Shape, Id, X, and Y. The table contains 23 rows of data, all with 'Point' as the shape and '0' as the Id. The X and Y columns are currently empty. Two large blue arrows point from the 'X' and 'Y' headers in the table to the corresponding columns in the table. The software interface includes various toolbars and a status bar at the bottom showing coordinates: 756620.483 2883173.75 Meters.

FID	Shape *	Id	X	Y
0	Point	0	0	0
1	Point	0	0	0
2	Point	0	0	0
3	Point	0	0	0
4	Point	0	0	0
5	Point	0	0	0
6	Point	0	0	0
7	Point	0	0	0
8	Point	0	0	0
9	Point	0	0	0
10	Point	0	0	0
11	Point	0	0	0
12	Point	0	0	0
13	Point	0	0	0
14	Point	0	0	0
15	Point	0	0	0
16	Point	0	0	0
17	Point	0	0	0
18	Point	0	0	0
19	Point	0	0	0
20	Point	0	0	0
21	Point	0	0	0
22	Point	0	0	0

756620.483 2883173.75 Meters



**ELEGIR SISTEMA DE
COORDENADAS**



Calculate Geometry

Property: X Coordinate of Point

Coordinate System

Use coordinate system of the data source:
PCS: WGS 1984 UTM Zone 12N

Use coordinate system of the data frame:
PCS: WGS 1984 UTM Zone 12N

Units: Meters [m]

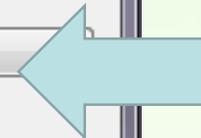
Calculate selected records only

[About calculating geometry](#)

OK Cancel



**ELEGIR X PARA
COLUMNA X Y/O
Y PARA
COLUMNA Y**



UNIDADES



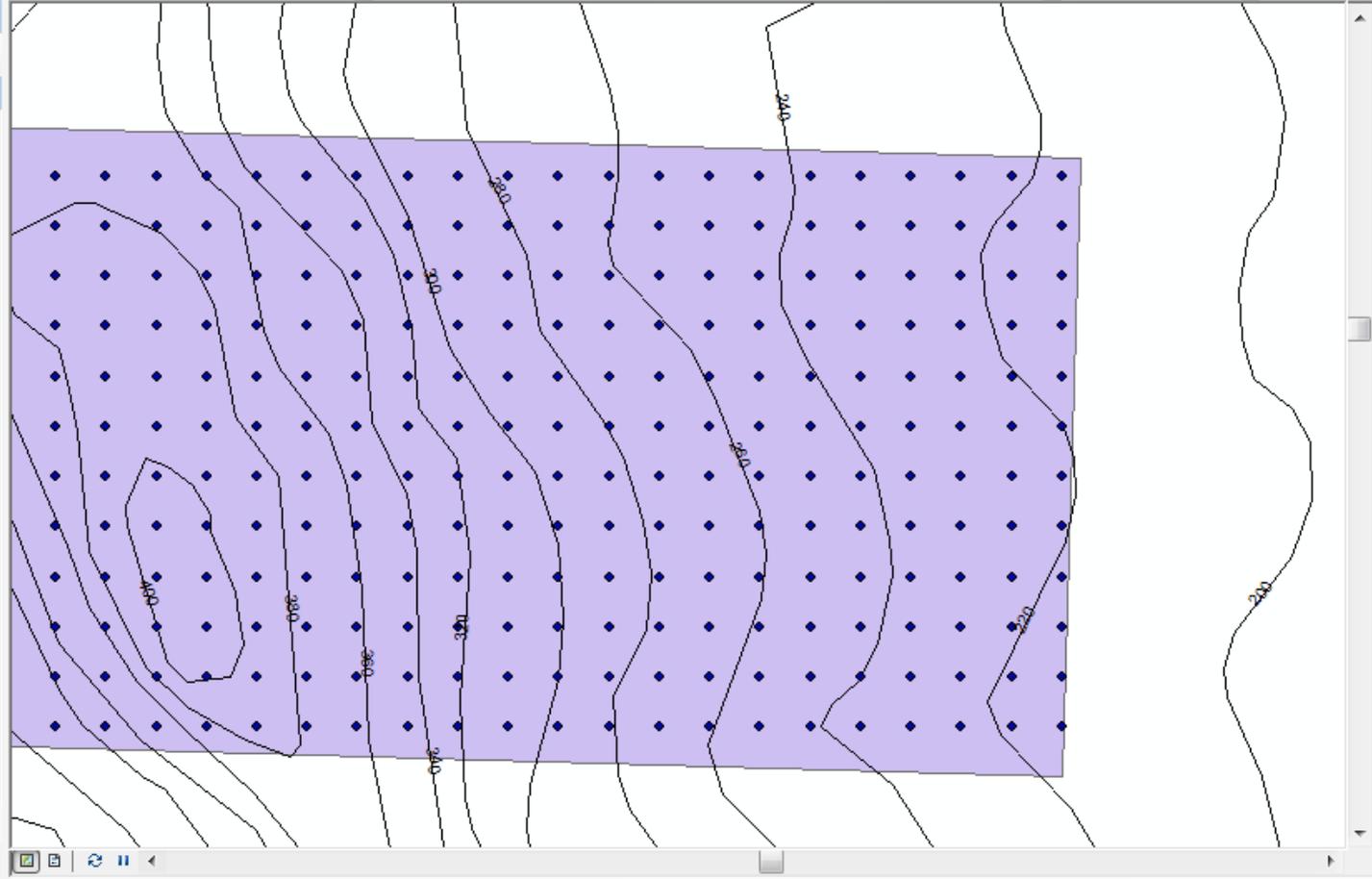
SE GENERARON LAS COORDENADAS X DE CADA PUNTO

Table

RECORTE

FID	Shape *	Id	X	Y
0	Point	0	756537.54	0
1	Point	0	756557.54	0
2	Point	0	756577.54	0
3	Point	0	756597.54	0
4	Point	0	756617.54	0
5	Point	0	756637.54	0
6	Point	0	756657.54	0
7	Point	0	756677.54	0
8	Point	0	756697.54	0
9	Point	0	756717.54	0
10	Point	0	756737.54	0
11	Point	0	756757.54	0
12	Point	0	756777.54	0
13	Point	0	756797.54	0
14	Point	0	756817.54	0
15	Point	0	756837.54	0
16	Point	0	756857.54	0
17	Point	0	756877.54	0
18	Point	0	756897.54	0
19	Point	0	756917.54	0
20	Point	0	756937.54	0
21	Point	0	756957.54	0
22	Point	0	756977.54	0

0 (0 out of 276 Selected)



- Se repite mismos pasos para la

LOCALIZACION DE BARRENOS - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:2,500

Geostatistical Analyst

Georeferencing inter_z88

Drawing

Se generan coordenadas Y de cada punto

Table

RECORTE

FID	Shape*	Id	X	Y
0	Point	0	756537.54	2883214.9563
1	Point	0	756557.54	2883214.9563
2	Point	0	756577.54	2883214.9563
3	Point	0	756597.54	2883214.9563
4	Point	0	756617.54	2883214.9563
5	Point	0	756637.54	2883214.9563
6	Point	0	756657.54	2883214.9563
7	Point	0	756677.54	2883214.9563
8	Point	0	756697.54	2883214.9563
9	Point	0	756717.54	2883214.9563
10	Point	0	756737.54	2883214.9563
11	Point	0	756757.54	2883214.9563
12	Point	0	756777.54	2883214.9563
13	Point	0	756797.54	2883214.9563
14	Point	0	756817.54	2883214.9563
15	Point	0	756837.54	2883214.9563
16	Point	0	756857.54	2883214.9563
17	Point	0	756877.54	2883214.9563
18	Point	0	756897.54	2883214.9563
19	Point	0	756917.54	2883214.9563
20	Point	0	756937.54	2883214.9563
21	Point	0	756957.54	2883214.9563
22	Point	0	756977.54	2883214.9563

1 (0 out of 276 Selected)

RECORTE

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Labeling Fast

3D Analyst inter_z88

756689.936 2883276.276 Meters

ES 11:34 a.m. 24/09/2016

Finalmente se obtienen las coordenadas de cada punto en total fueron 275 puntos generados dentro del polígono de interés con una separación de 20 metros de cada uno.

Misma extensión sirve para generar cuadrículas de polígonos y otras opciones.



Esos puntos ya pueden ser enviados al gps de campo