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January 27, 2011

**VIA HAND-DELIVERY**

Mr. David Brooks  
Oil Conservation Division  
New Mexico Department of Energy,  
Minerals and Natural Resources  
1220 South Saint Francis Drive  
Santa Fe, New Mexico 87505


Re: Case No. 14586: Application of Williams Production Co., LLC for an Exception to the Special Rules and Regulations for the Blanco\_mesaverde Gas Pool for Increased Well Density in the Rosa Unit, San Juan and Rio Arriba Counties, New Mexico. .

Dear Mr. Brooks:

During the hearing of Case No. 14586, counsel for ConocoPhillips requested a full copy of Mr. Luo's report on the Rosa Unit Mesaverde Infill Project and the details and parameters used for the Gas-In-Place numbers presented by Williams. Attached please find these requested documents which are also being sent to Mr. Kellahin by copy of this letter.

Thank you for your time and attention to this matter.

Very truly yours,



Ocean Munds-Dry  
Attorney for Williams Production Co., LLC

cc: Tom Kellahin  
Enclosures

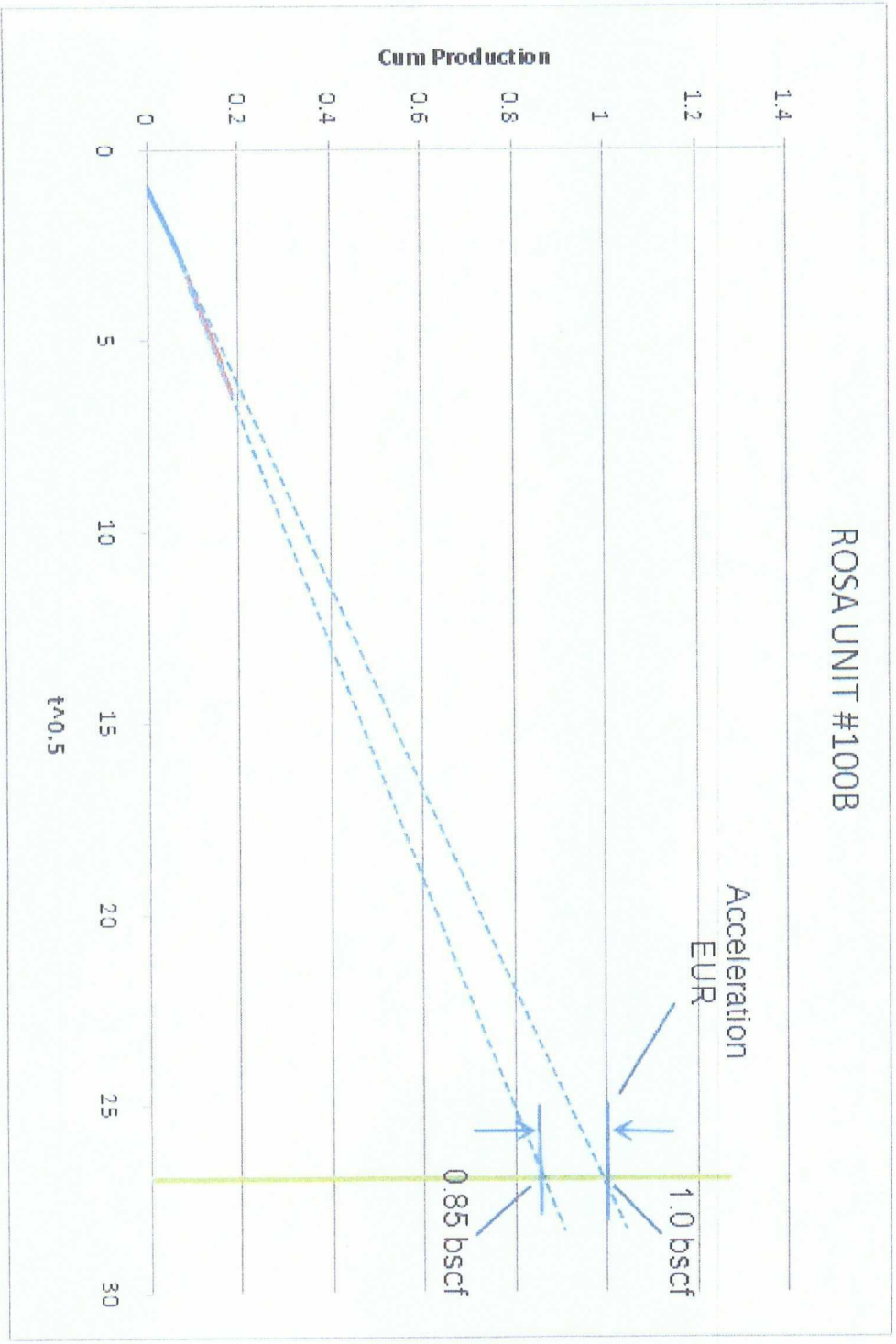
		GIP Parameters		
Water Saturation		35%	35%	35%
Gas Compressibility		0.90	0.89	0.88
Reservoir Temperature		151	151	151
Reservoir Pressure		1500	1600	1980
	Avg PHI-H/well	Sand GIP (Bcf)		
Cliffhouse	1.26	10.649	11.487	14.376
Menefee	5.26	122.107	131.711	164.844
Pt Lookout	2.86	102.608	110.679	138.521
Lower Pt Lookout	2.86	35.716	38.526	48.217
<b>TOTAL</b>		<b>271.08</b>	<b>292.403</b>	<b>365.958</b>
	Gas Content Scf/ton	Coal GIP (Bcf)		
Menefee Coal	400	425.276	425.276	425.276
Avg Denisty - 1.75 g/cc	250	265.797	265.797	265.797
	200	212.638	212.638	212.638
	Gas Content Scf/ton	Total GIP (Bcf)		
	400	696.356	717.679	791.234
	250	536.877	558.200	631.755
	200	483.718	505.041	578.596

# **ROSA Mesaverde**

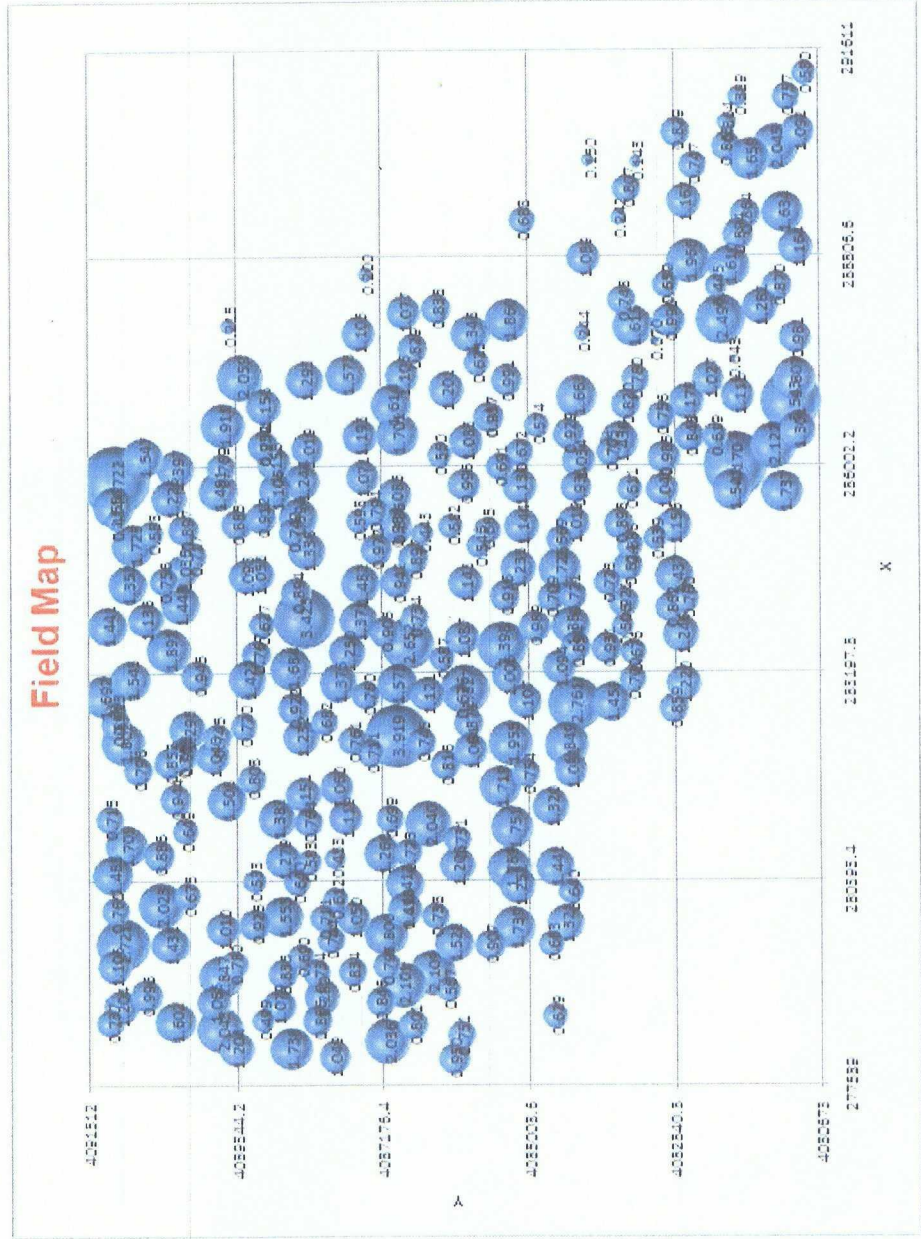
## **Infill Project Report**

Shu Luo

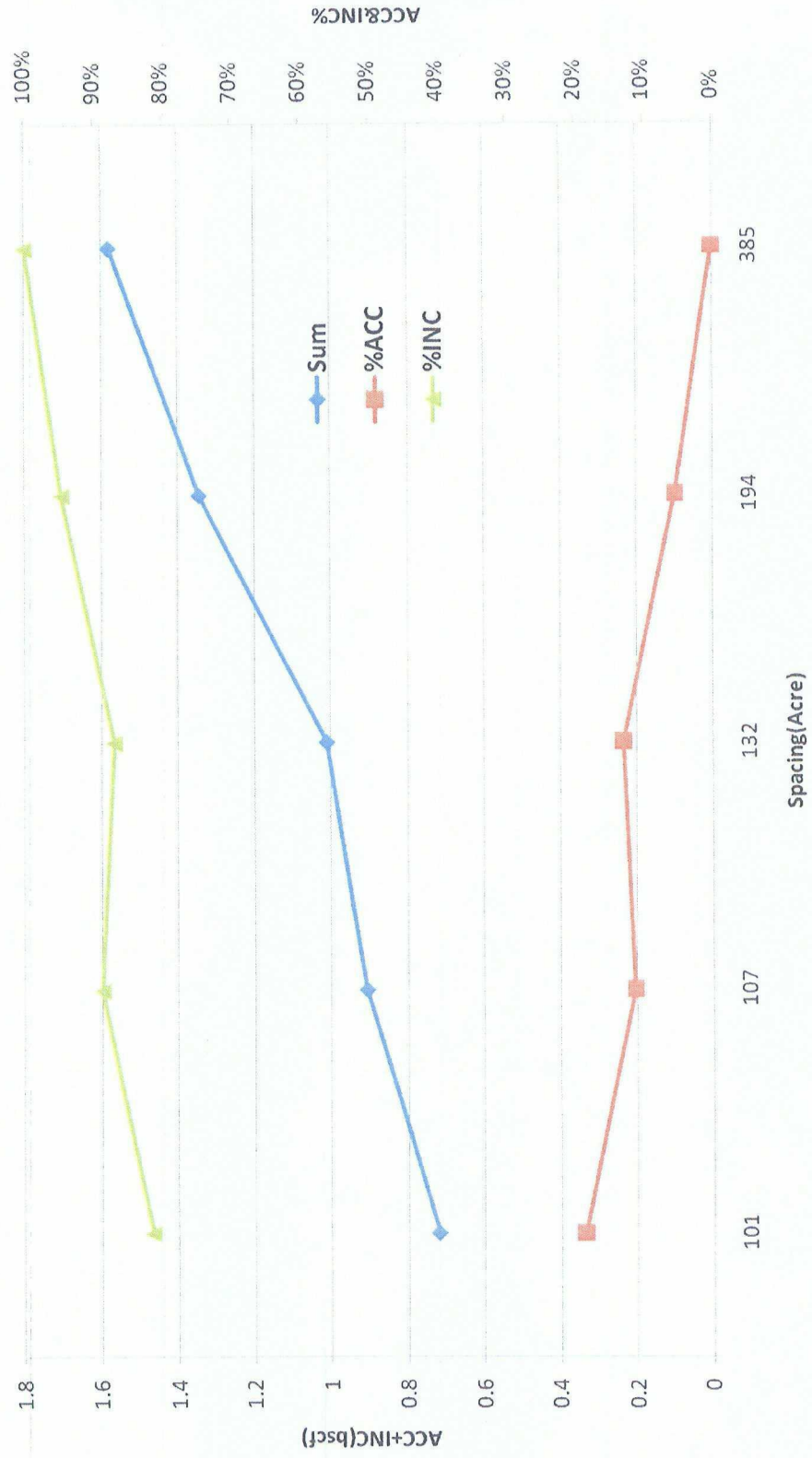
# Acceleration EUR Calculation



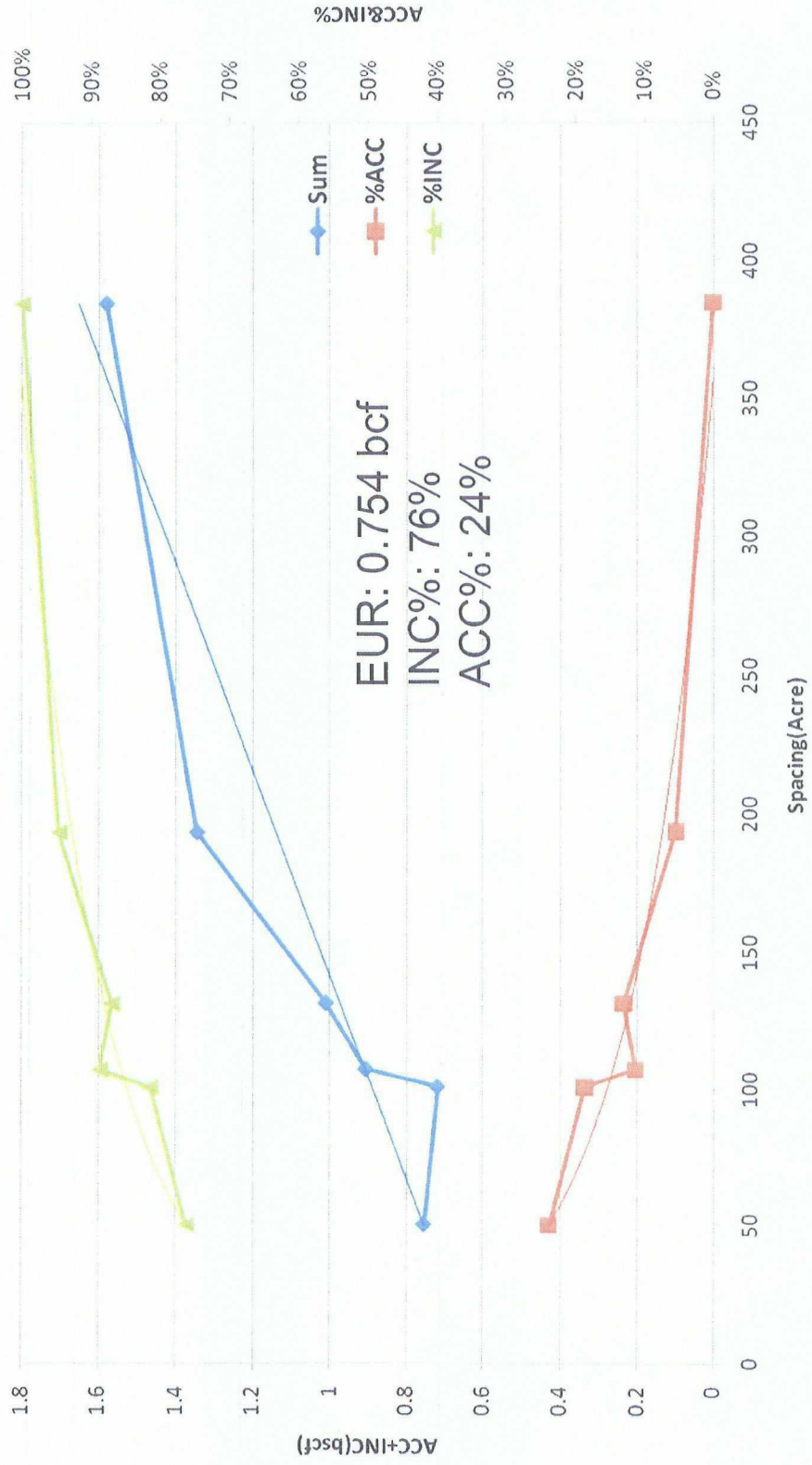
# Field Map



# Whole Field ACC&INC



# Whole Field Extrapolation



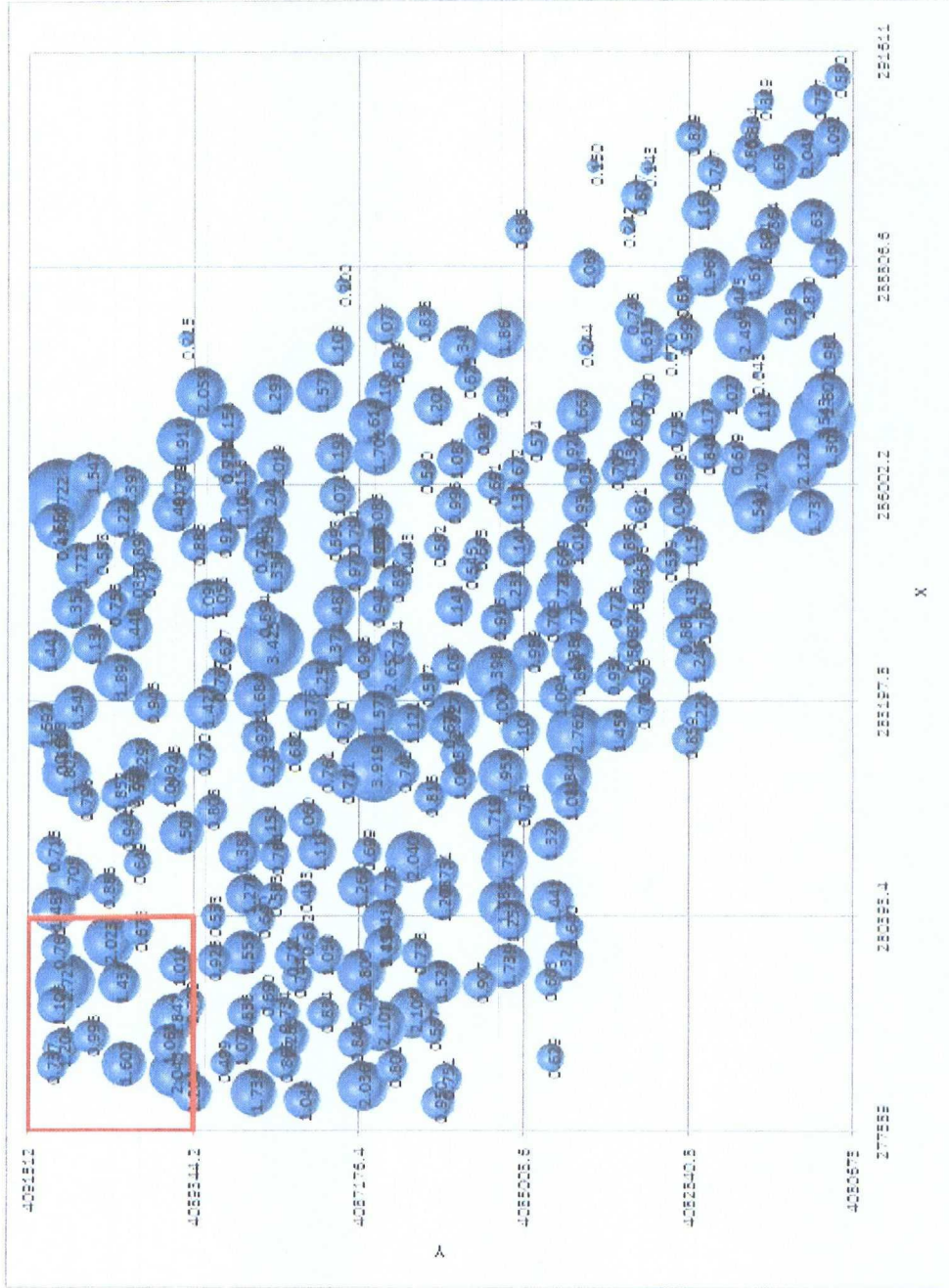
# Potential Comparison

Results:

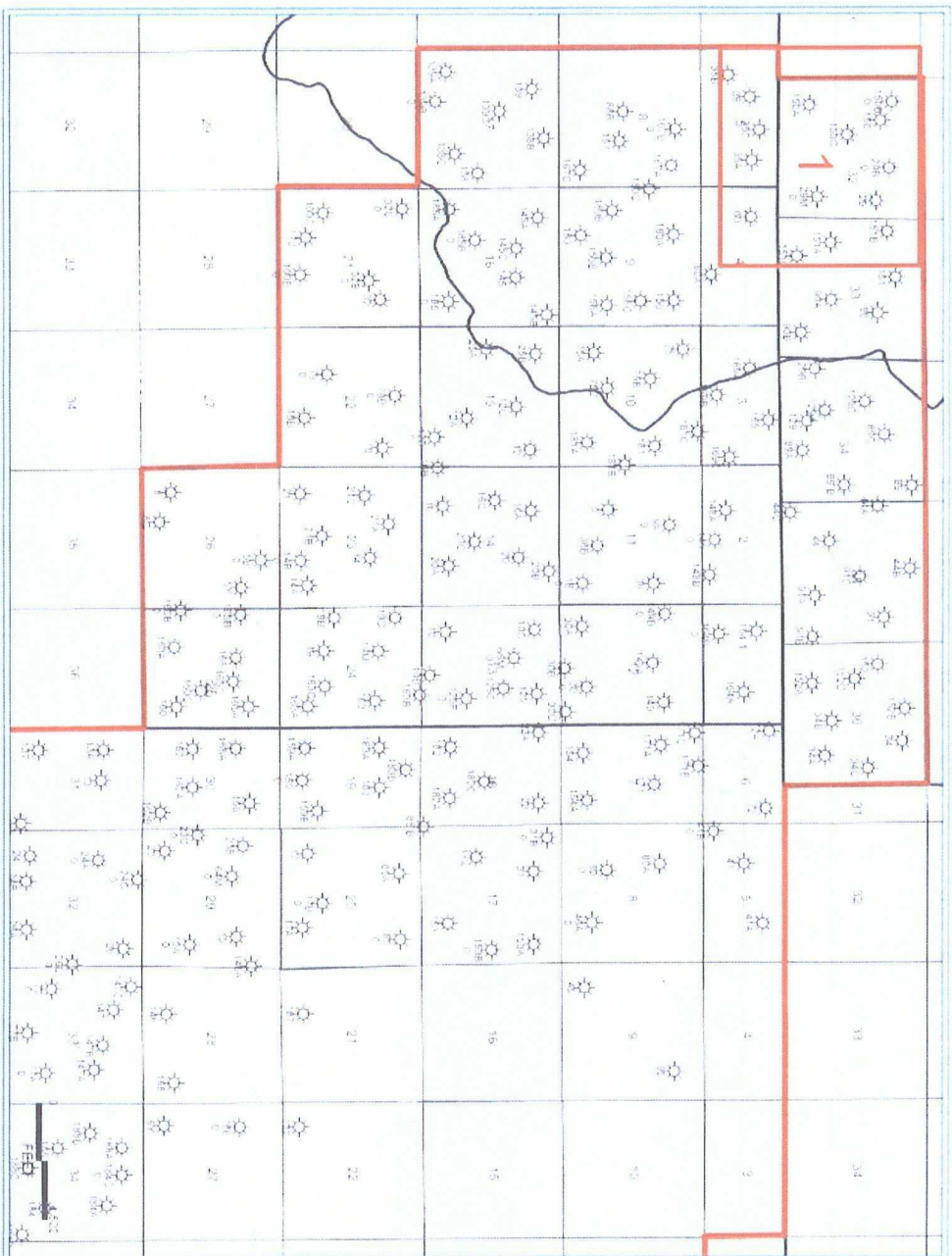
	Sum	%(ACC)	%(INC)	ACC	INC
Area1:	0.829	16%	84%	0.136	0.693
Area2:	0.855	13%	87%	0.108	0.747
Area3:	0.729	25%	75%	0.183	0.546
Area6:	0.846	9%	92%	0.072	0.774
Area7:	0.818	13%	87%	0.103	0.716
Area8:	0.915	38%	63%	0.344	0.572
Area9:	1.019	12%	88%	0.121	0.897
Area11:	0.758	37%	62%	0.284	0.474
Area12:	0.791	19%	81%	0.148	0.642
Area13:	0.700	45%	55%	0.315	0.384
Area14:	0.676	17%	83%	0.117	0.560
Area18:	0.922	19%	81%	0.176	0.745
Area19:	0.430	28%	72%	0.119	0.310
Area24:	0.593	51%	49%	0.303	0.289
Area25:	1.009	32%	68%	0.327	0.682
Average:	0.793	25%	75%	0.190	0.602



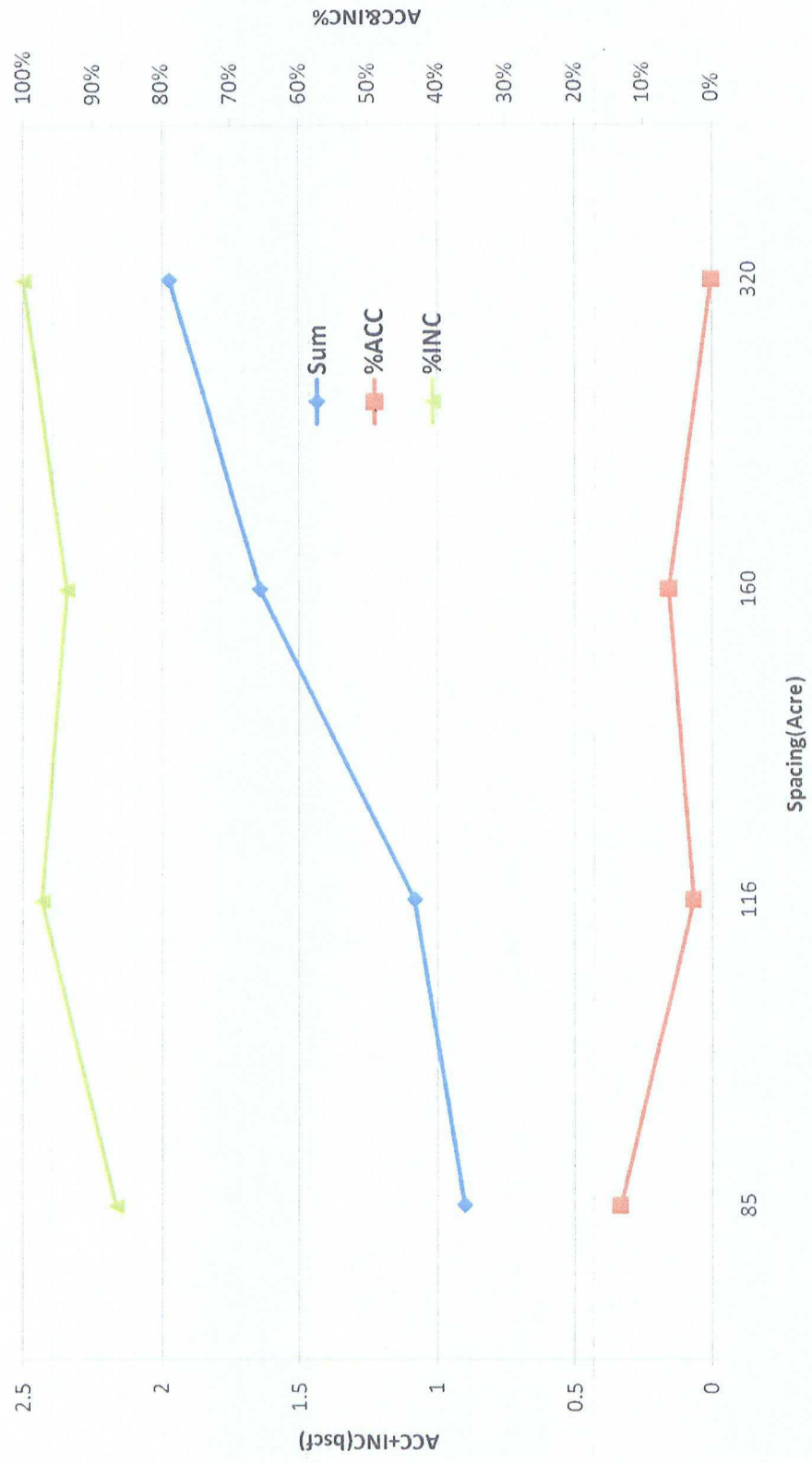
# Area 1



# Area 1

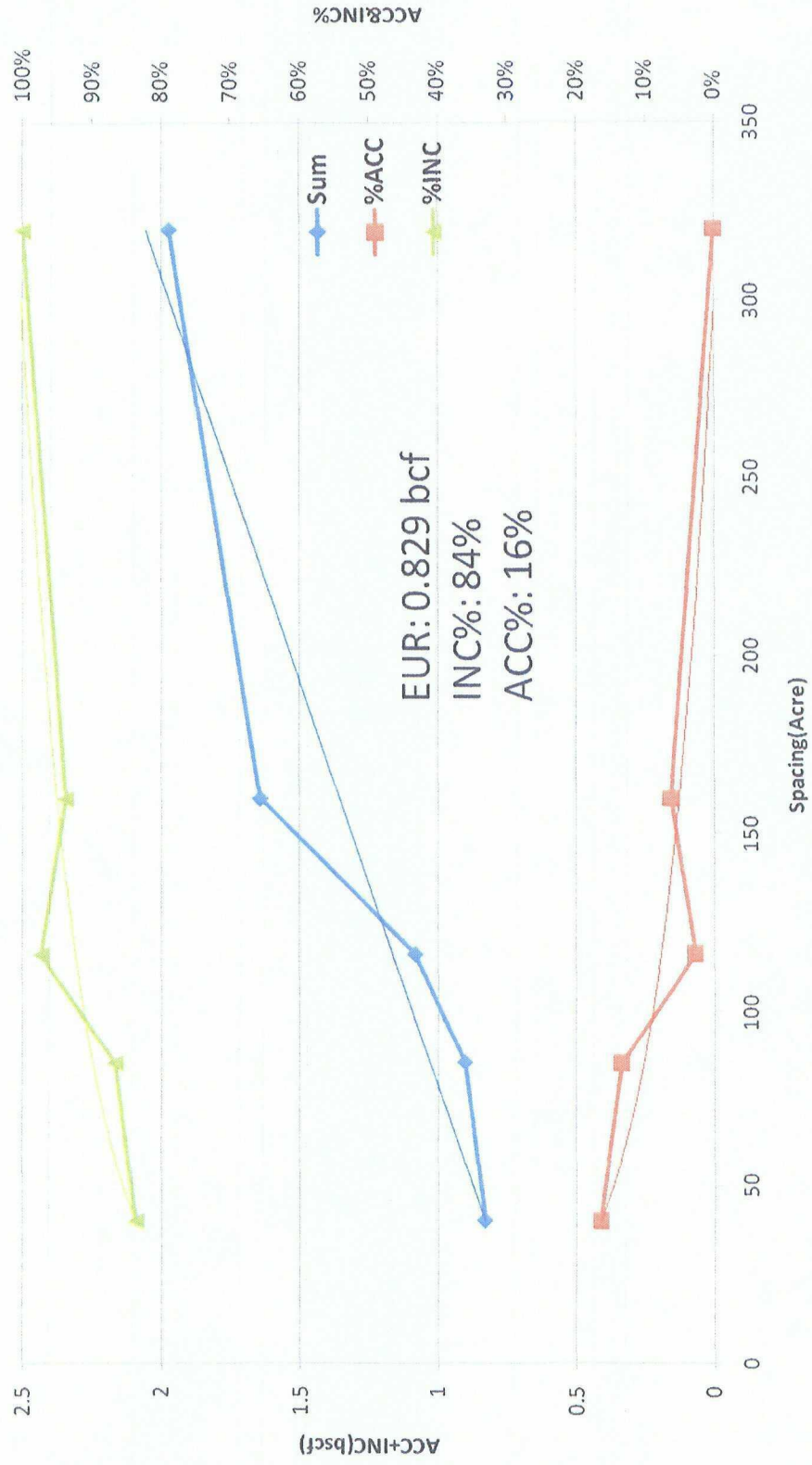


# Area 1 ACC&INC



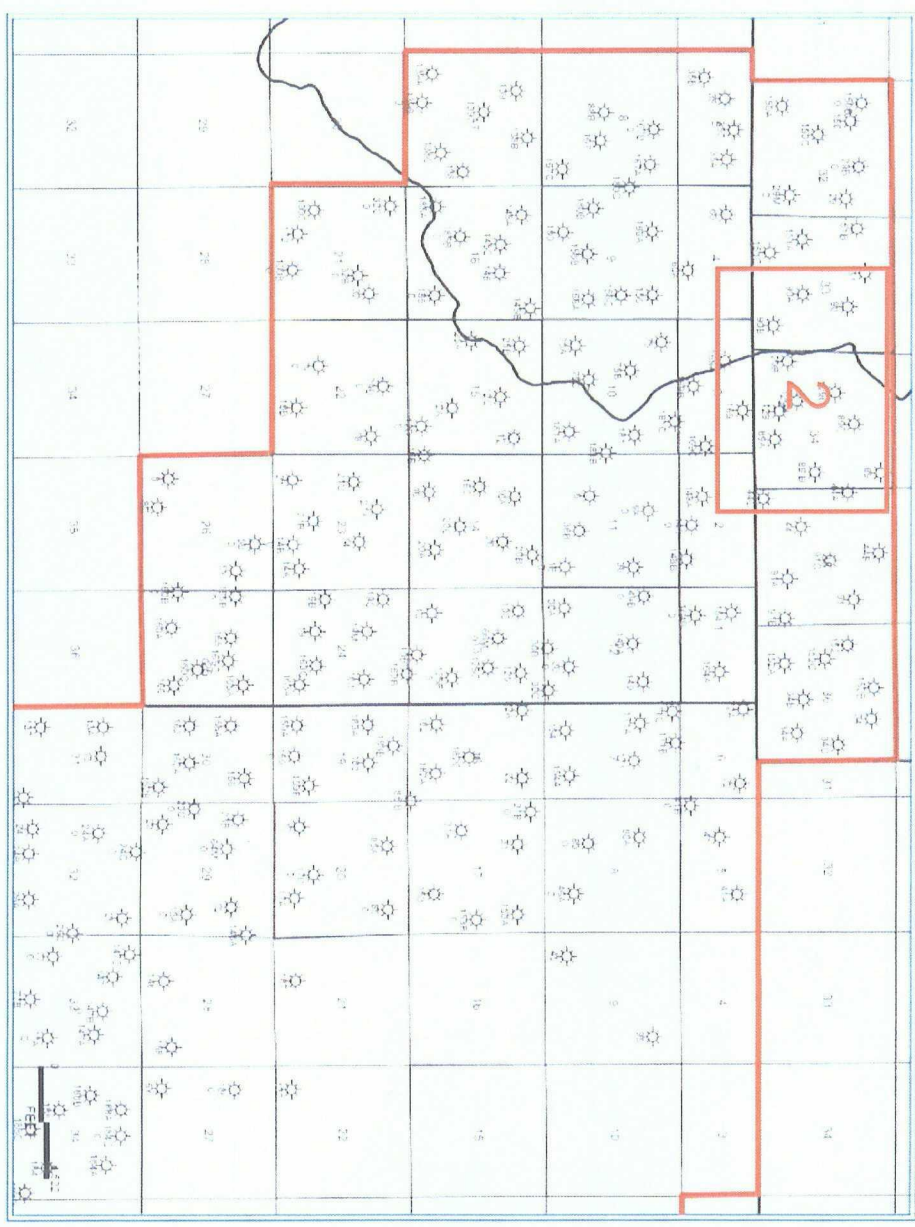
# Area 1

## Extrapolation



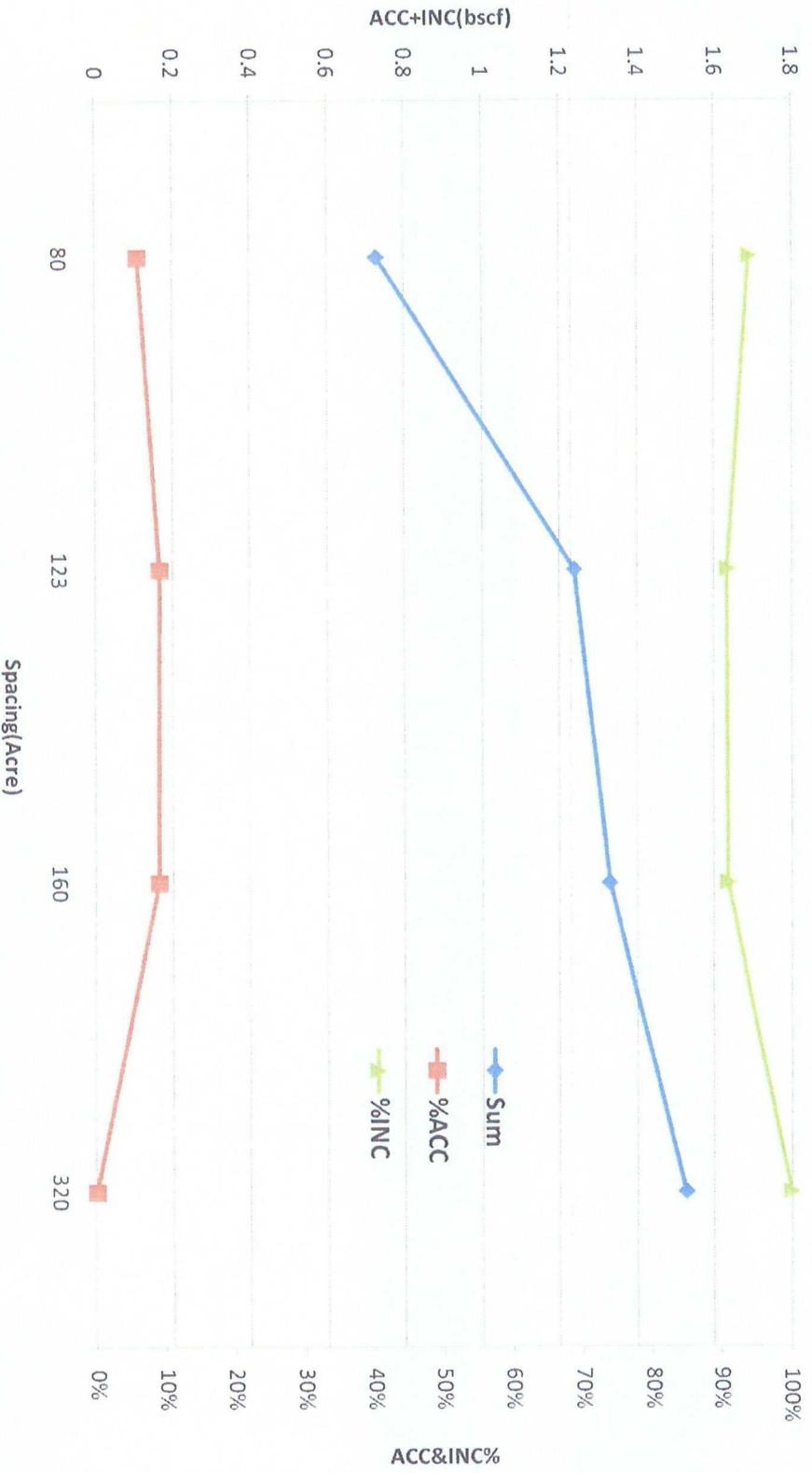


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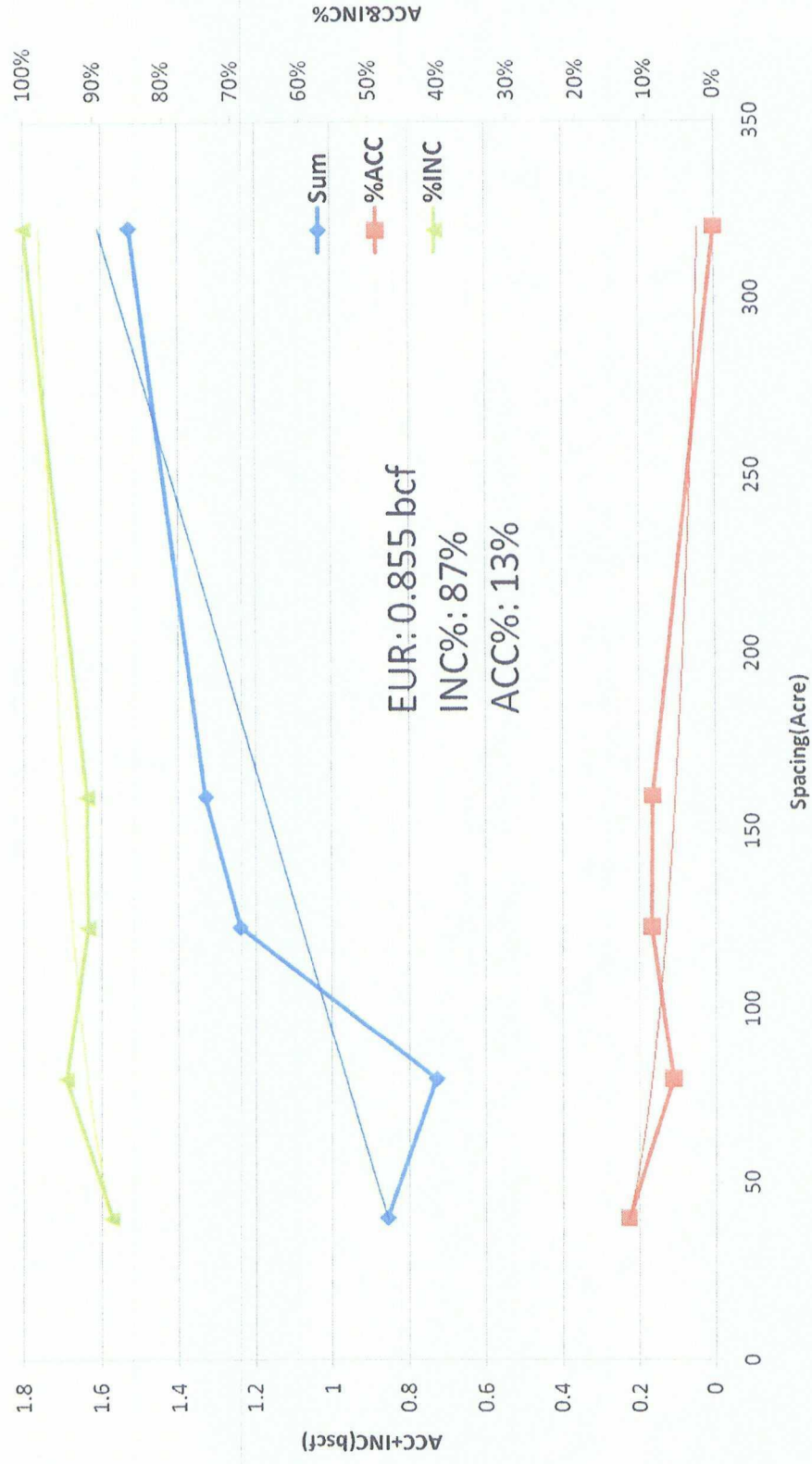
# Area 2

## ACC&INC



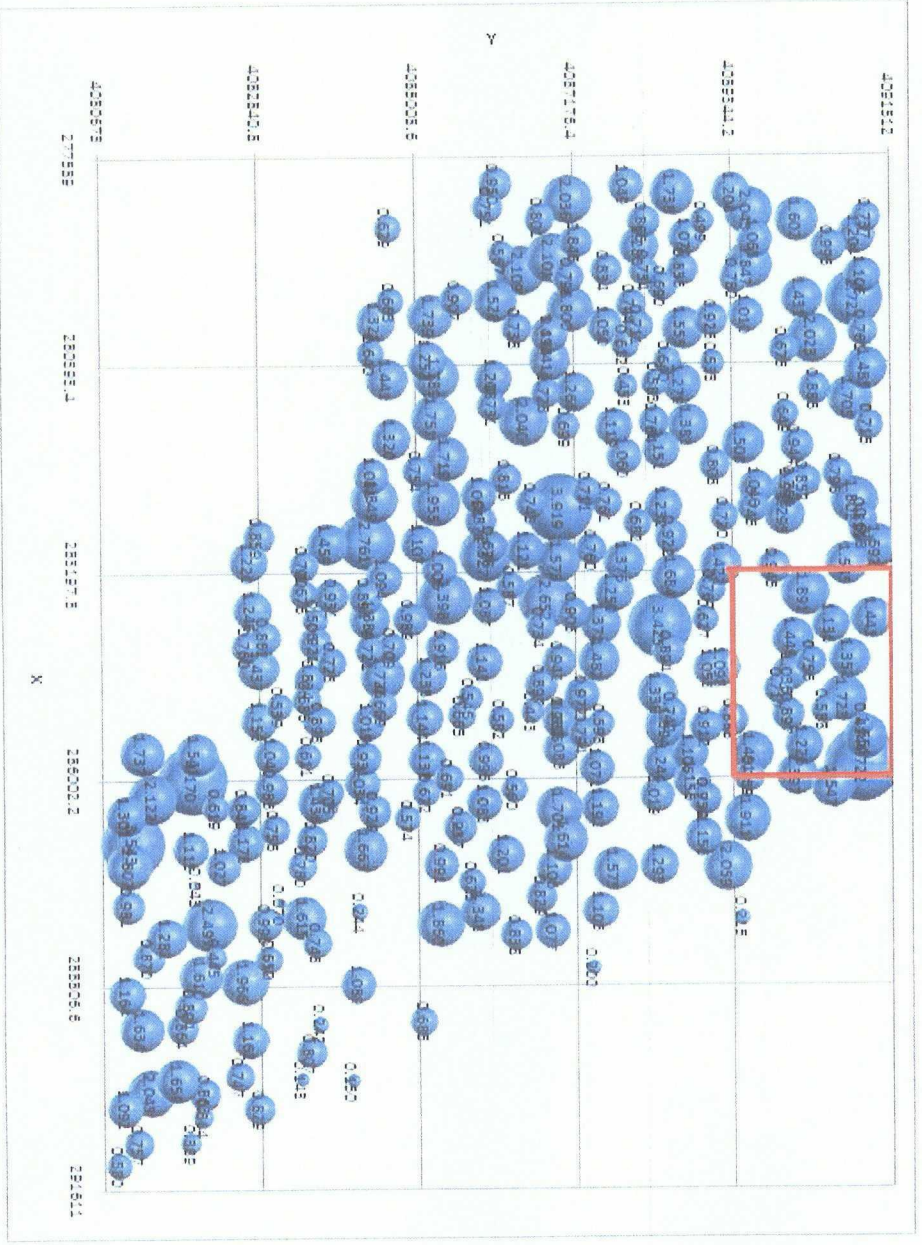
# Area 2

## Extrapolation

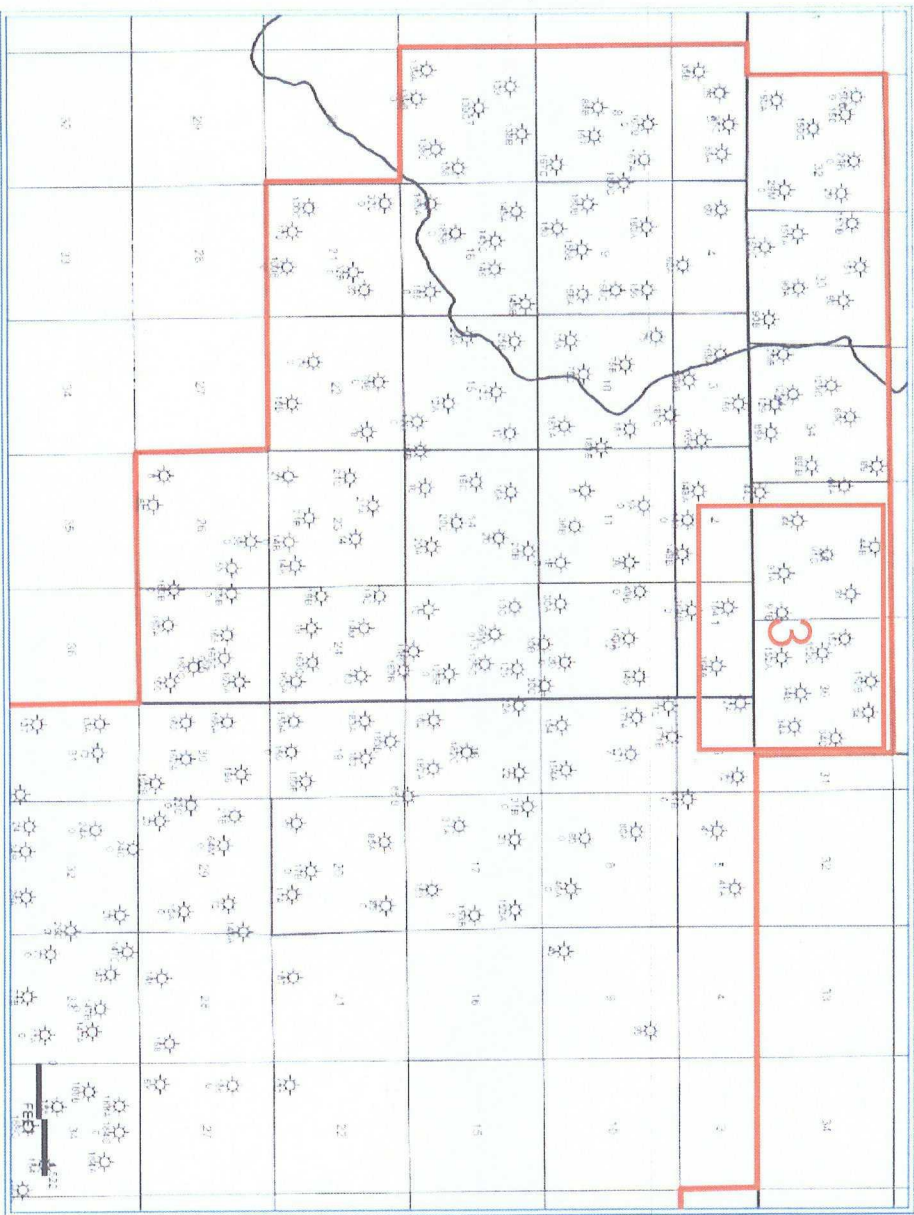




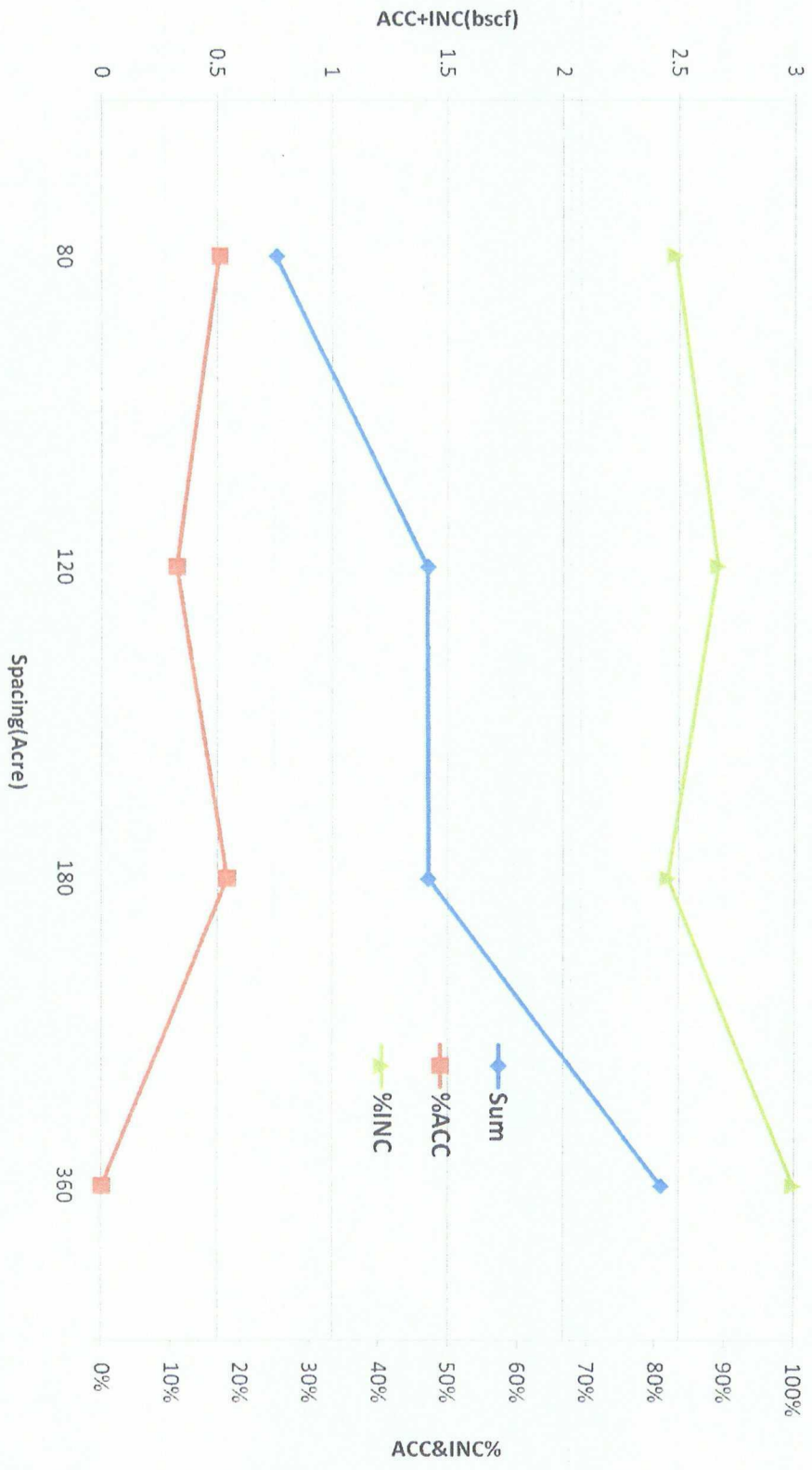
# Area 3



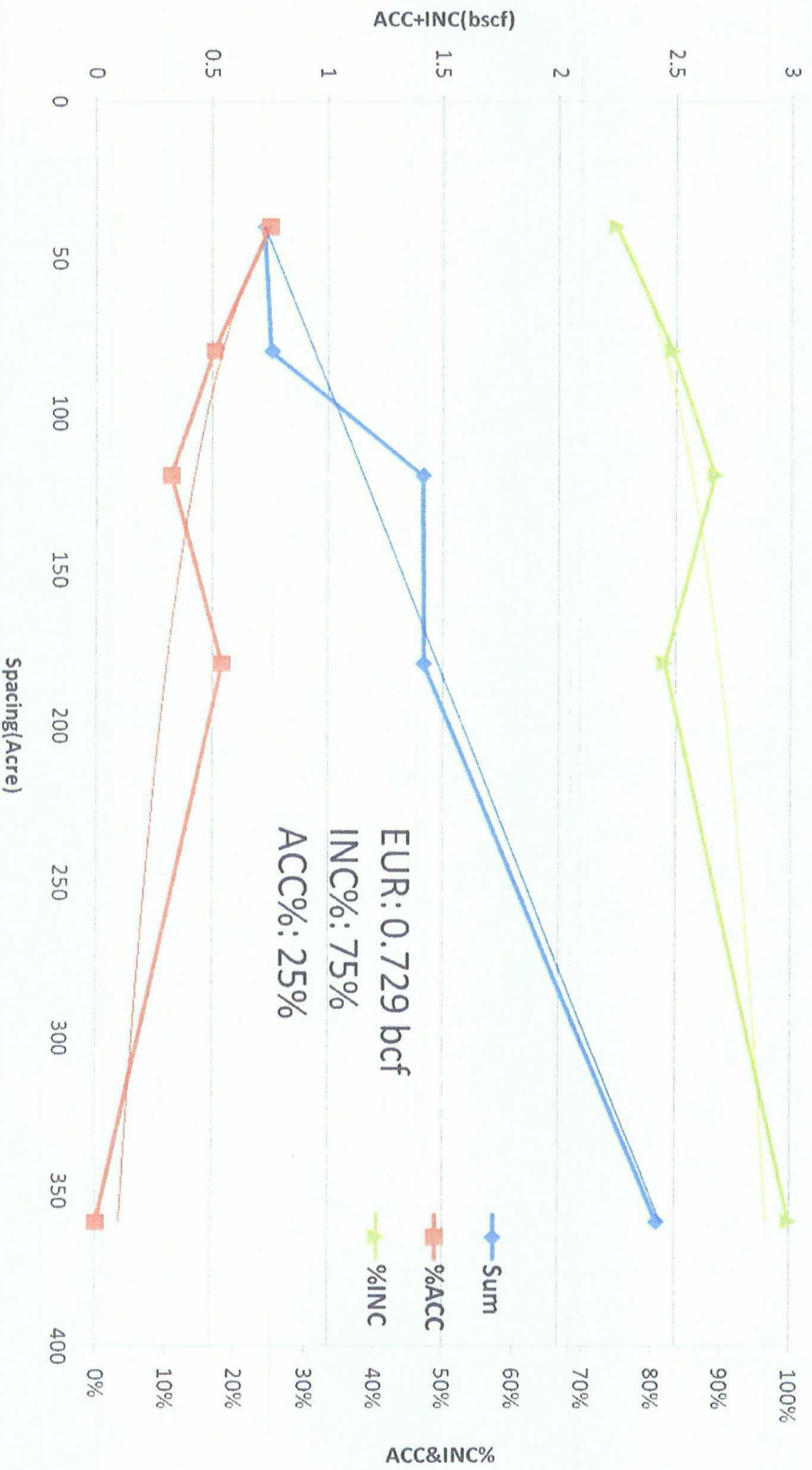
# Area 3



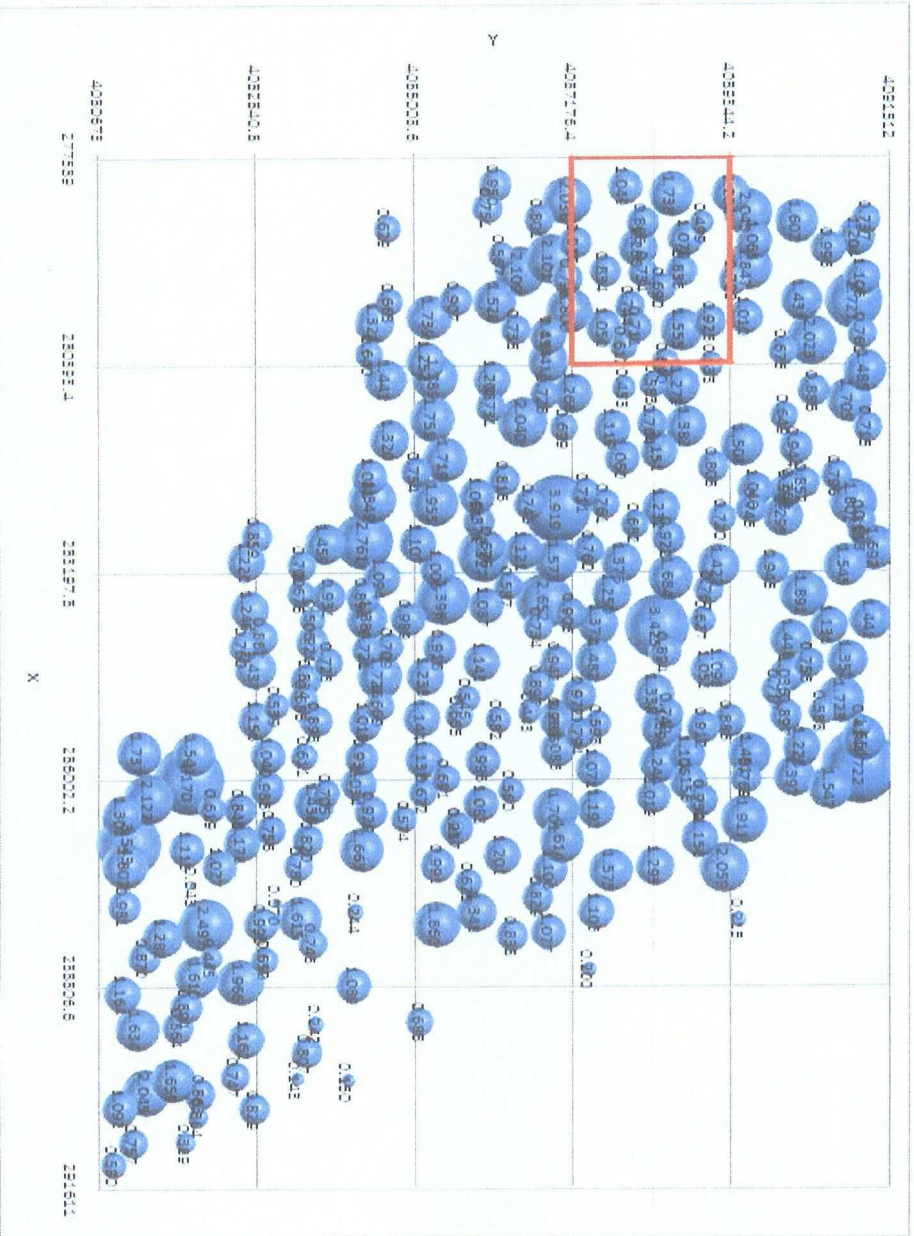
# Area 3 ACC&INC



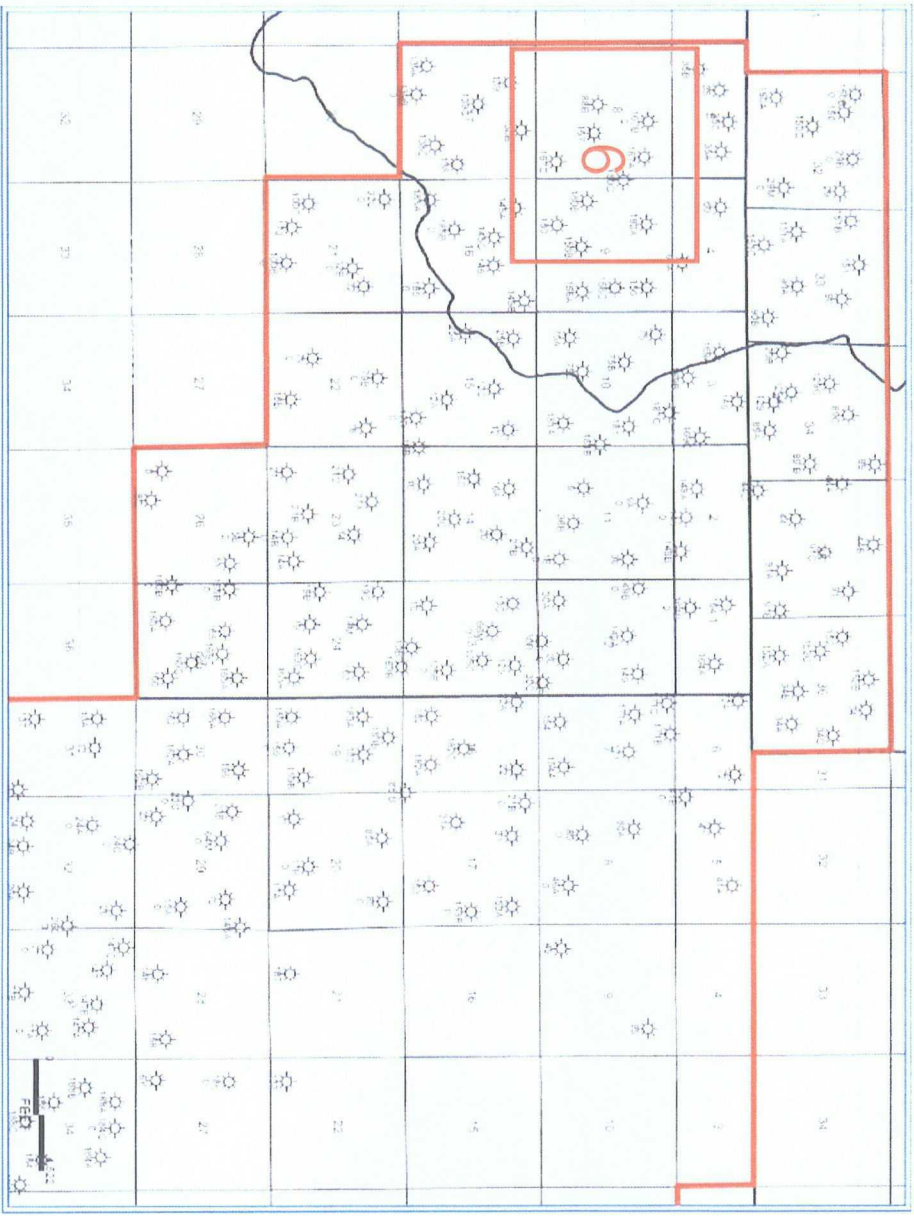
# Area 3 Extrapolation



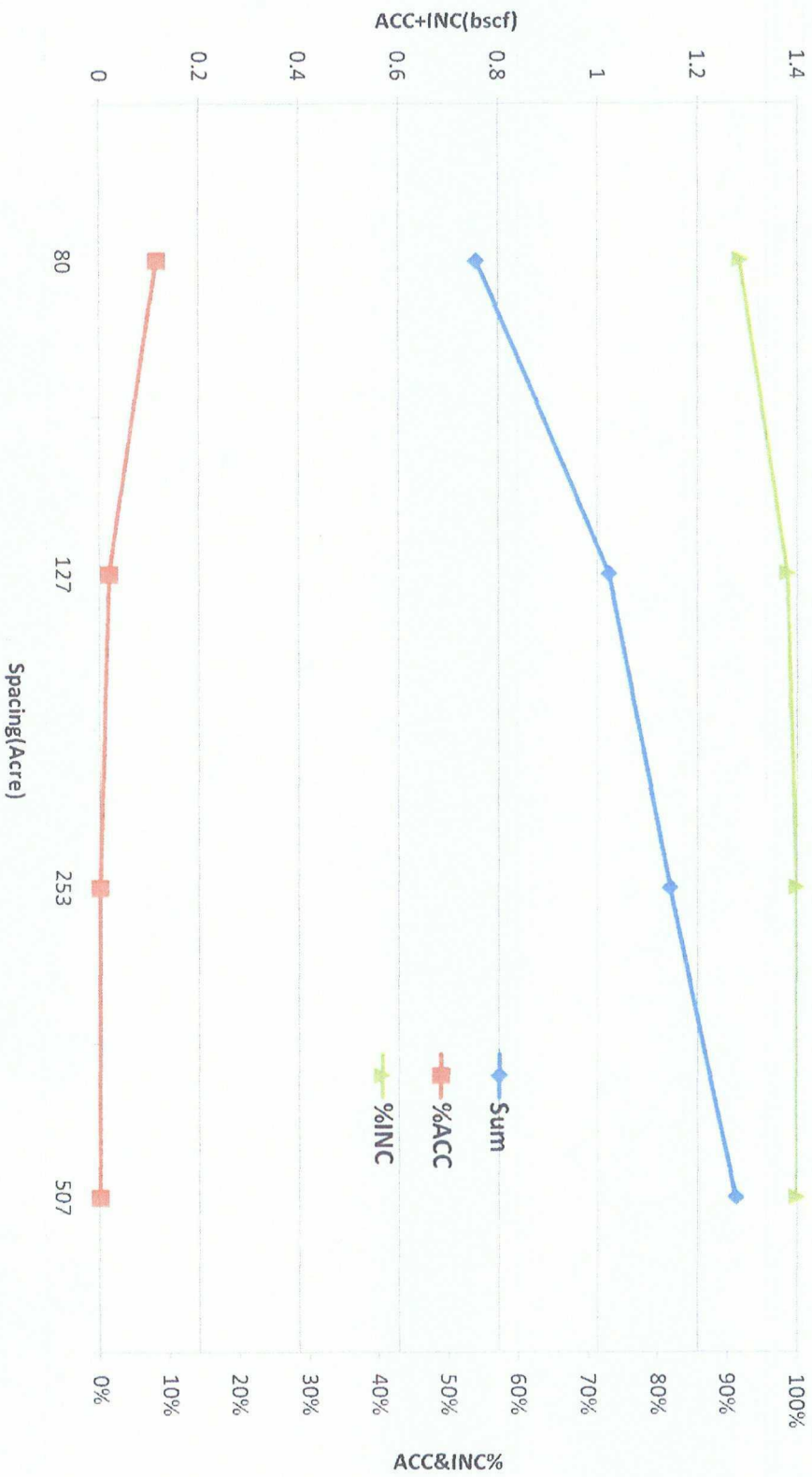
# Area 6



# Area 6

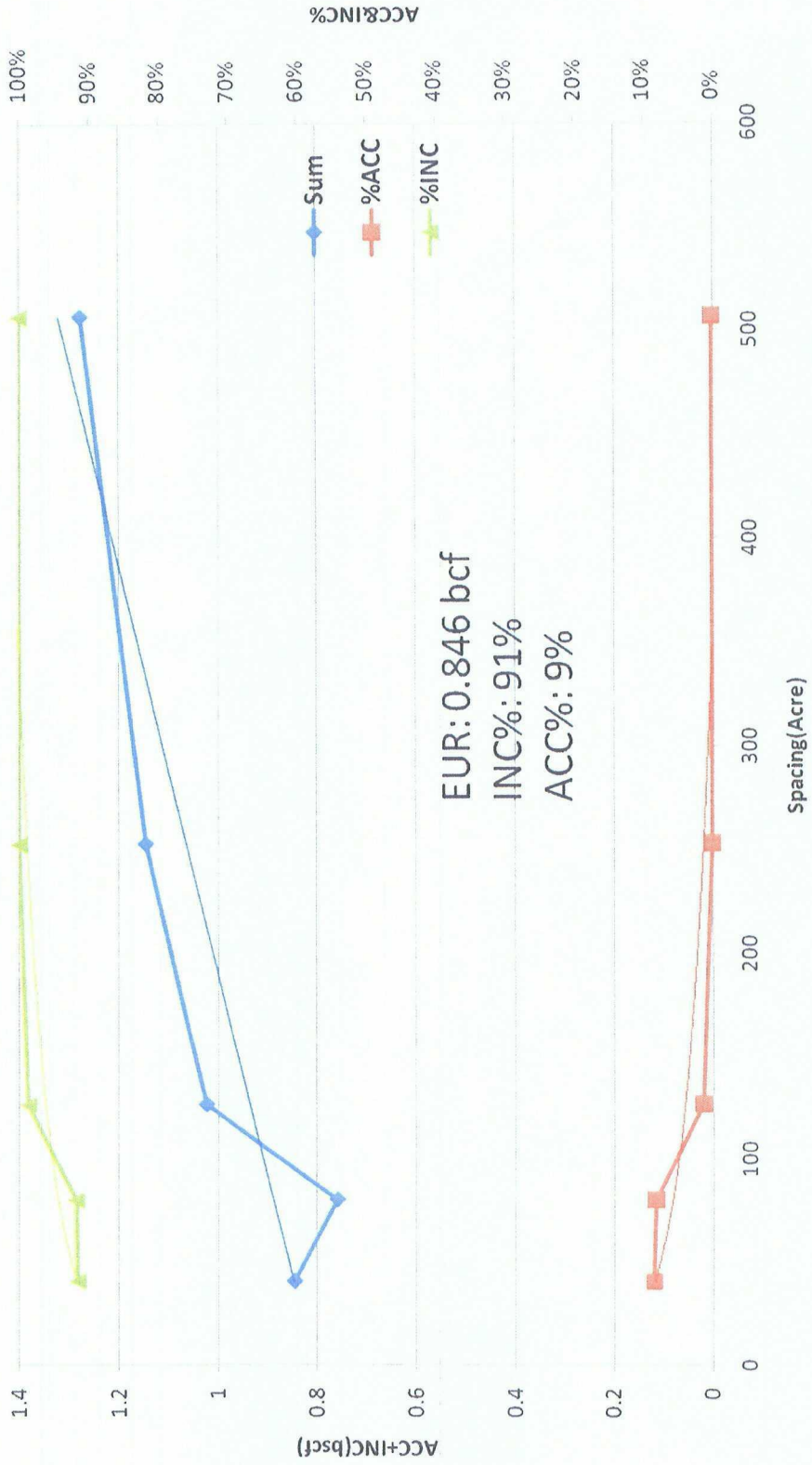


# Area 6 ACC&INC



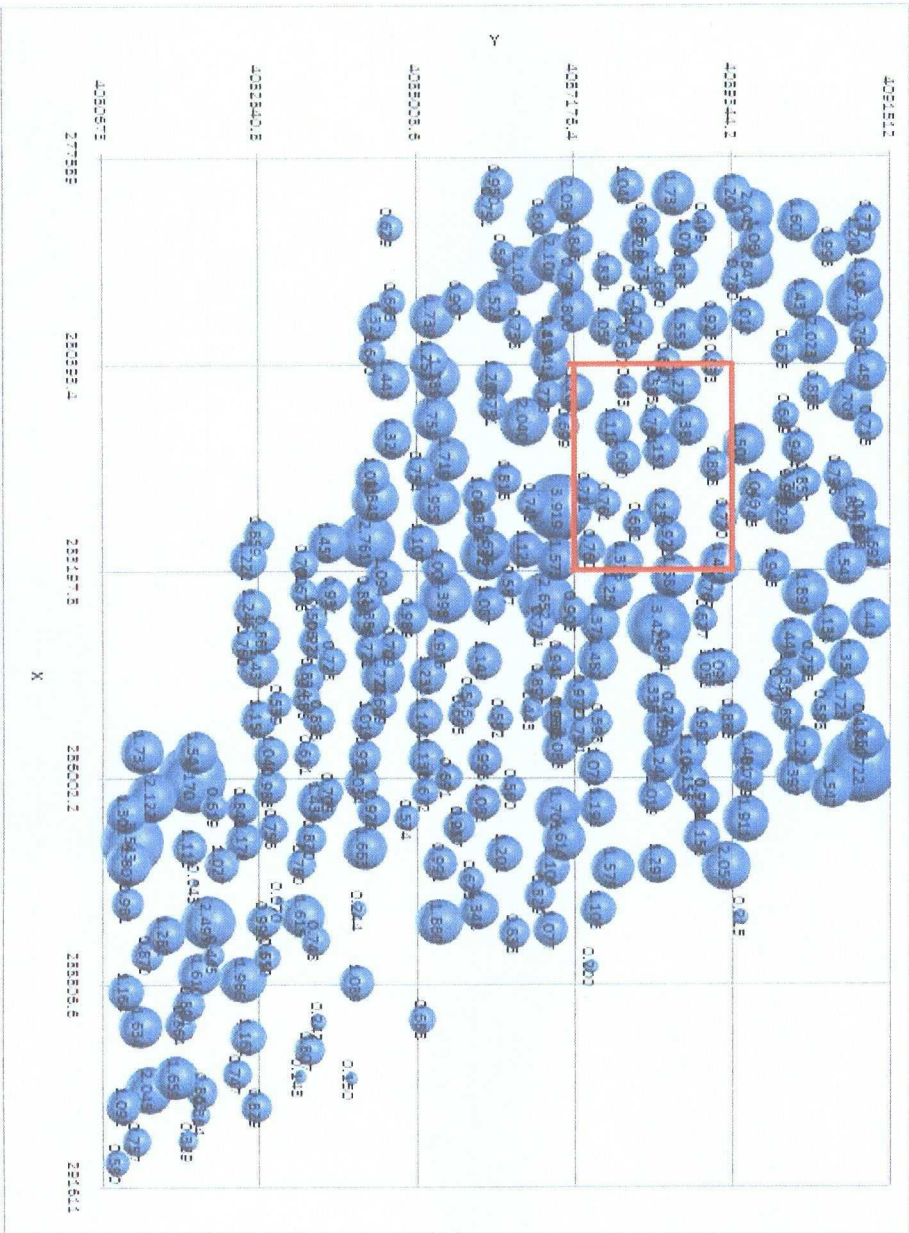
# Section 6

## Extrapolation

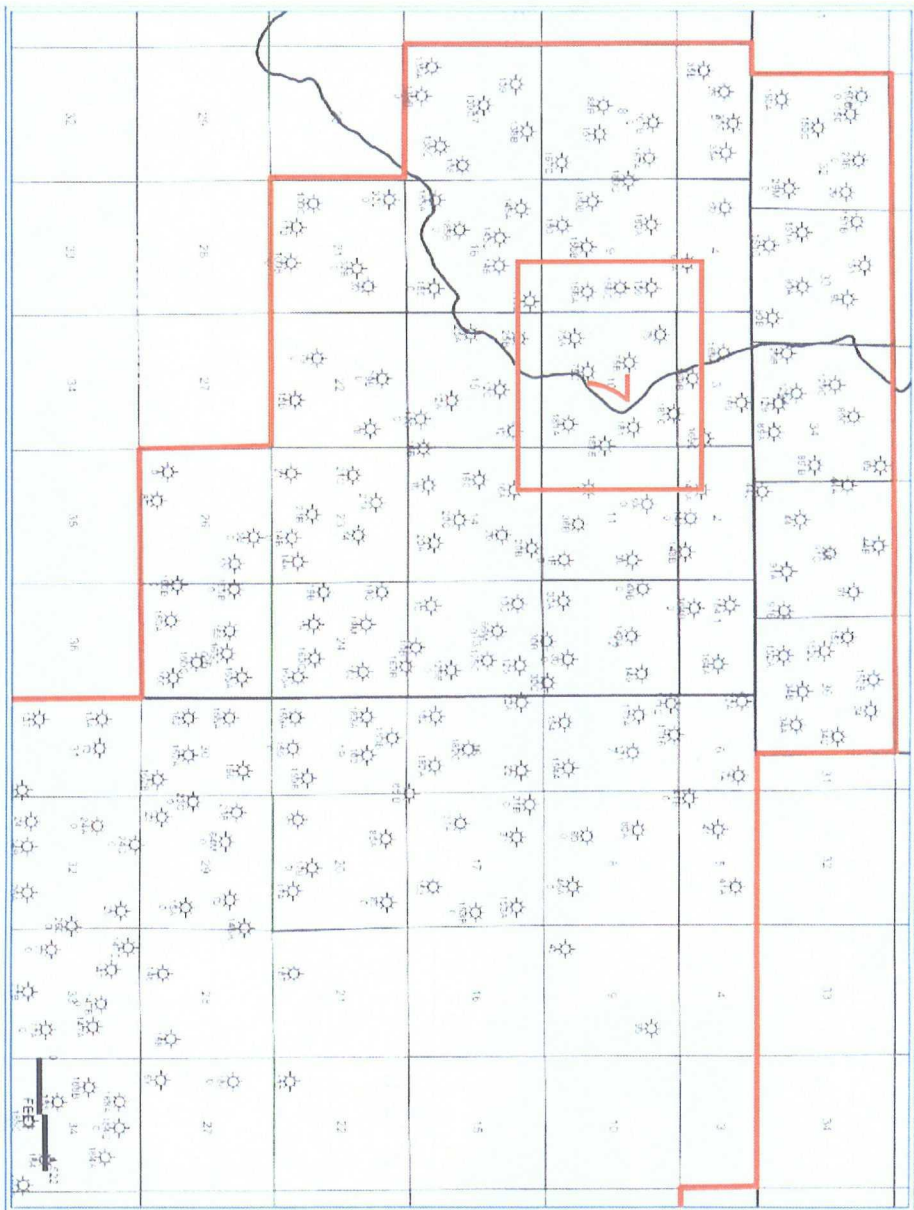




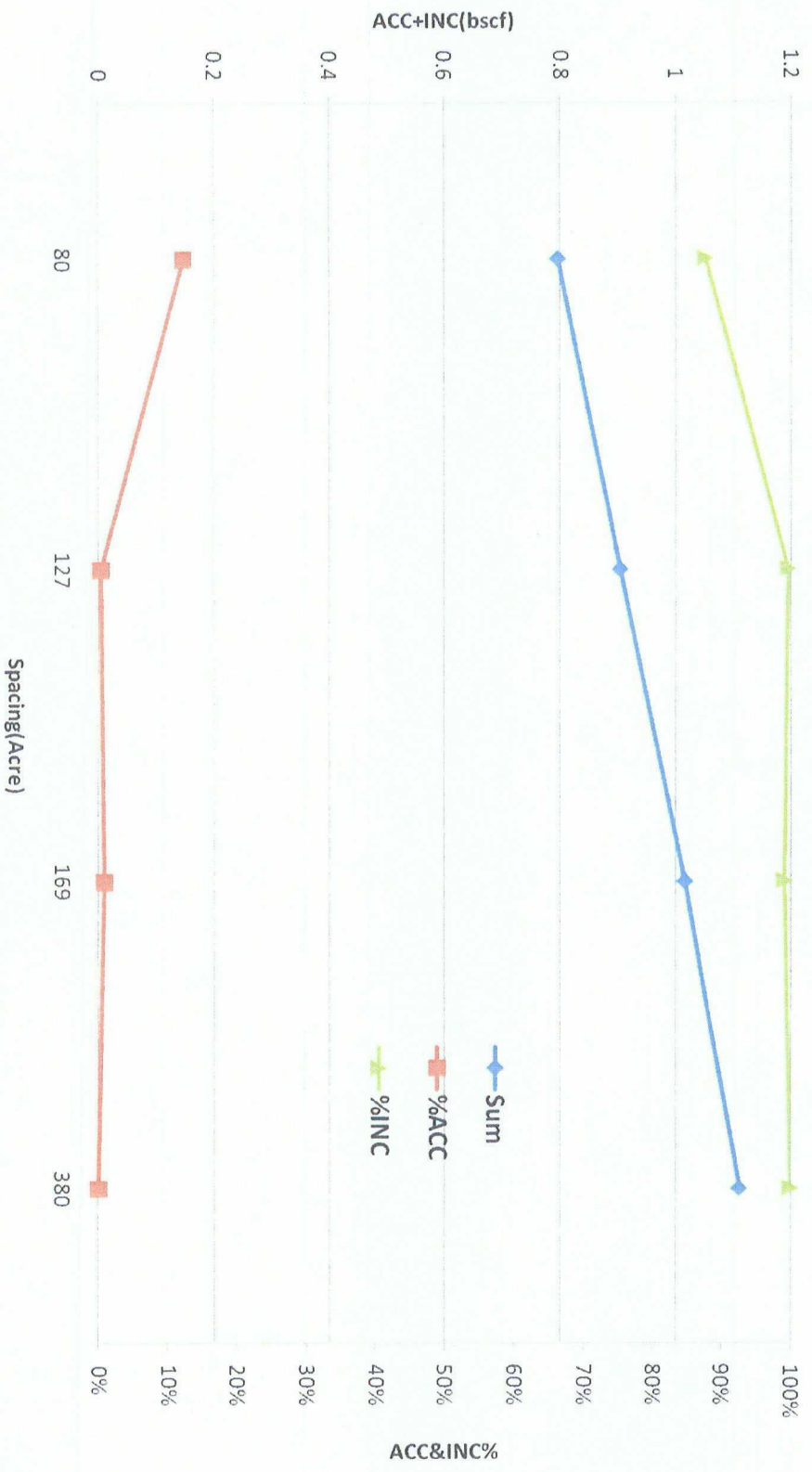
# Area 7



# Area 7

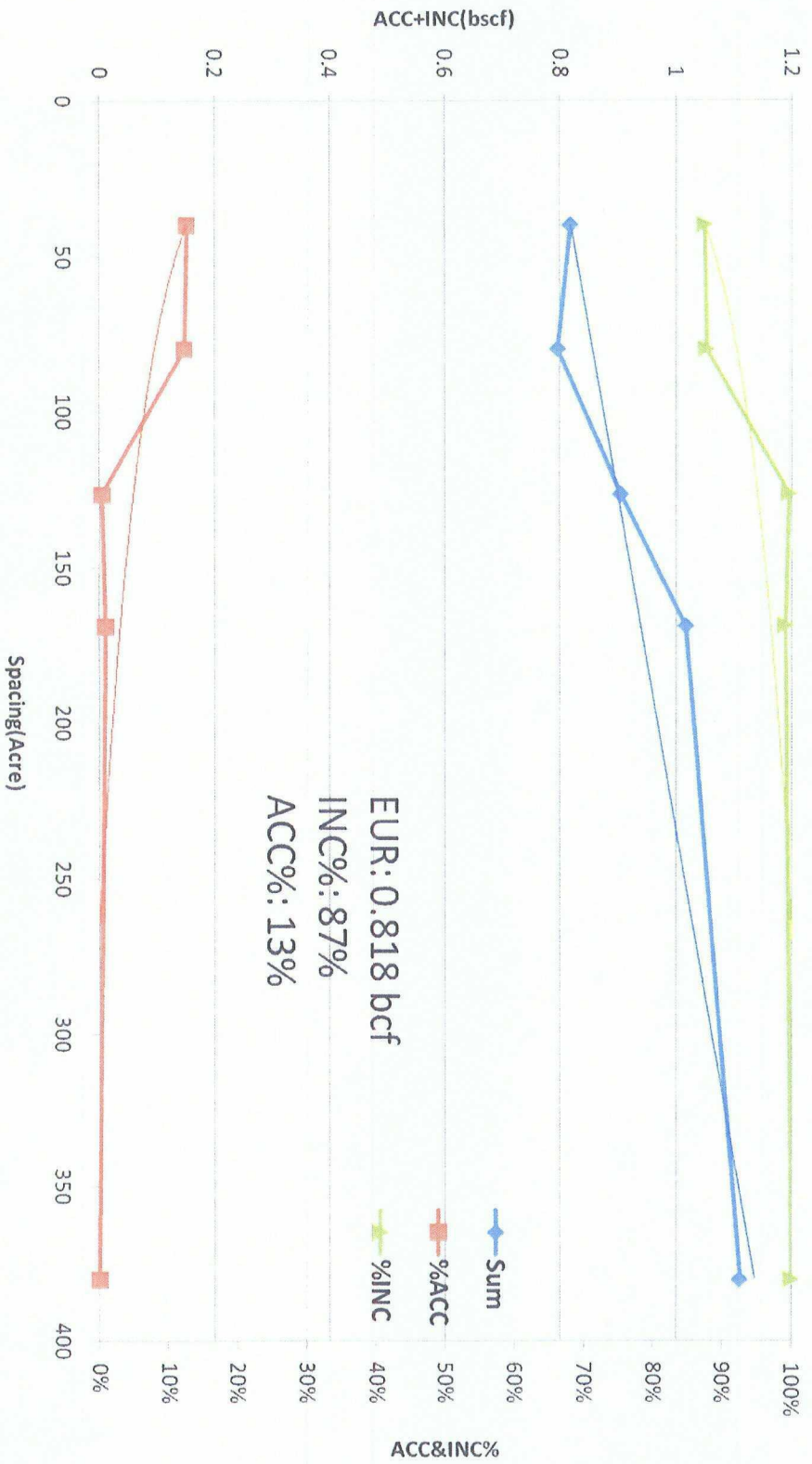


# Area 7 ACC&INC

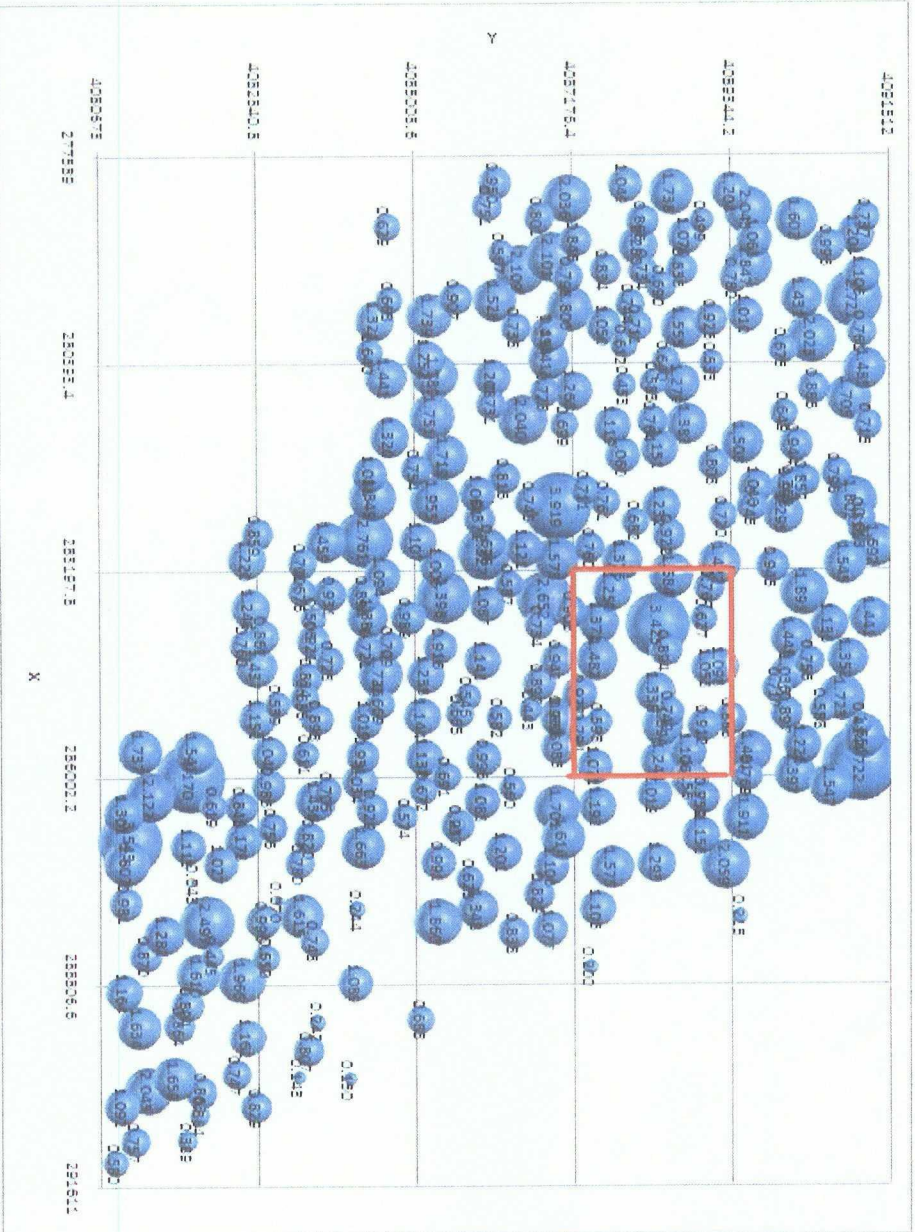


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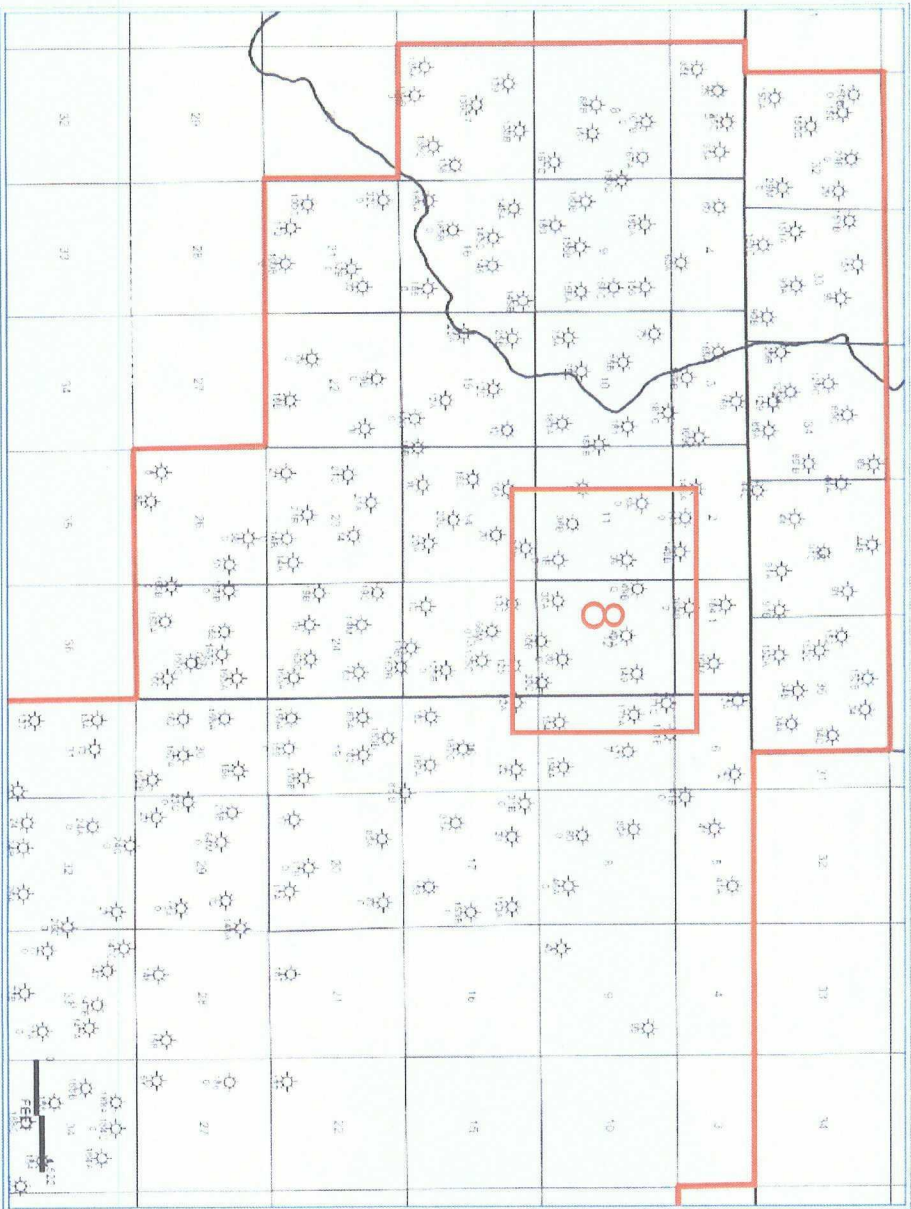
## Extrapolation



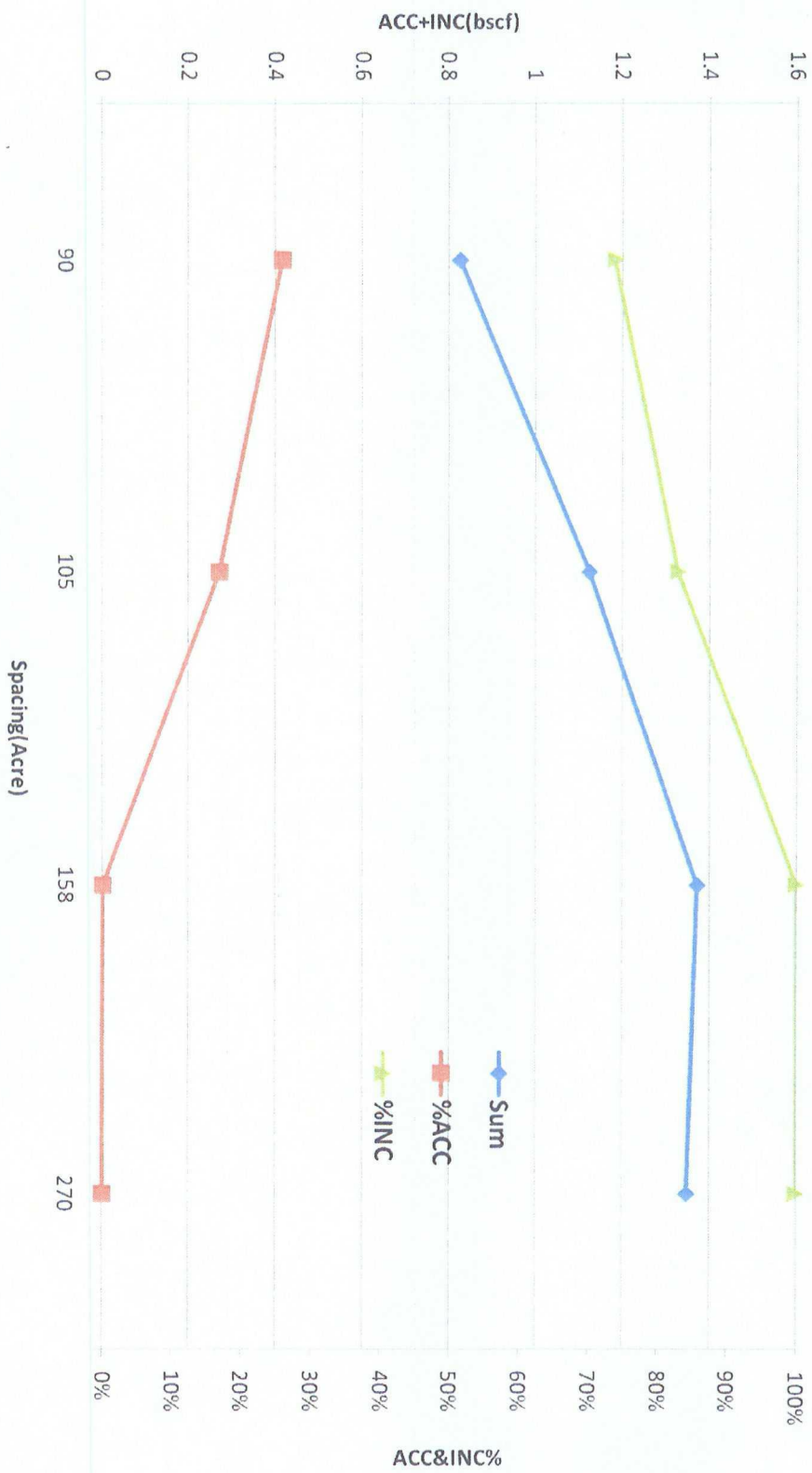
# Area 8



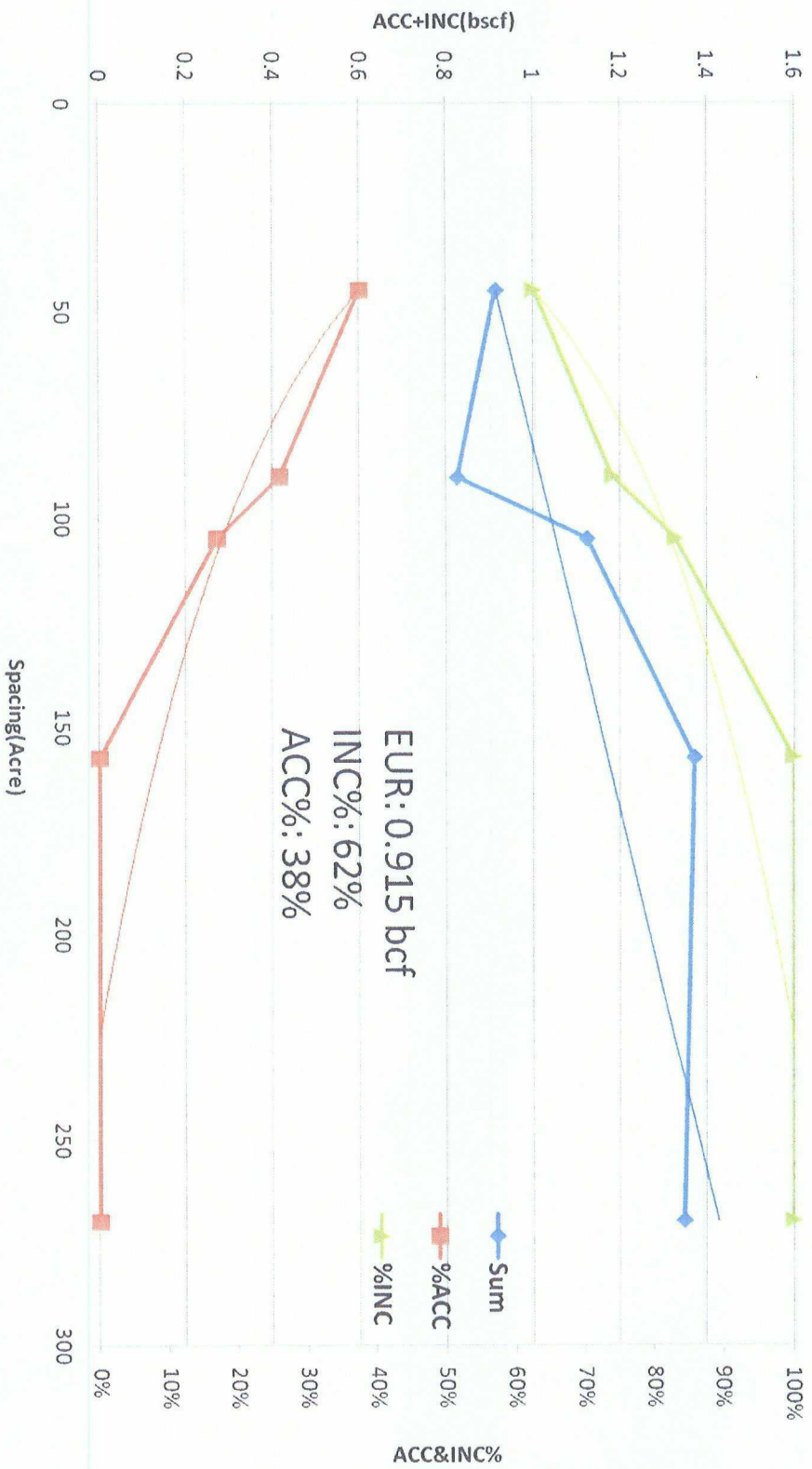
# Area 8



# Area 8 ACC&INC

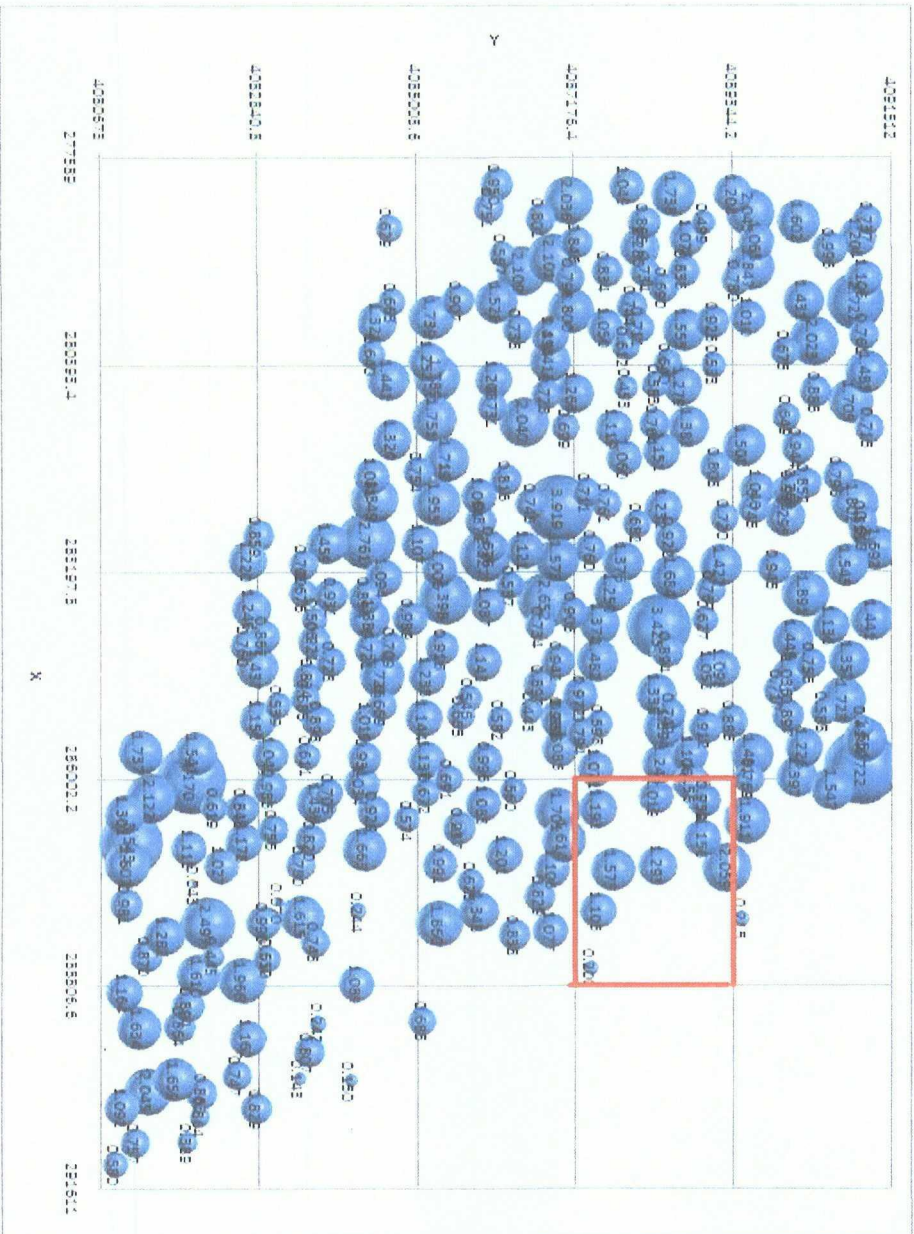


# Area 8 Extrapolation

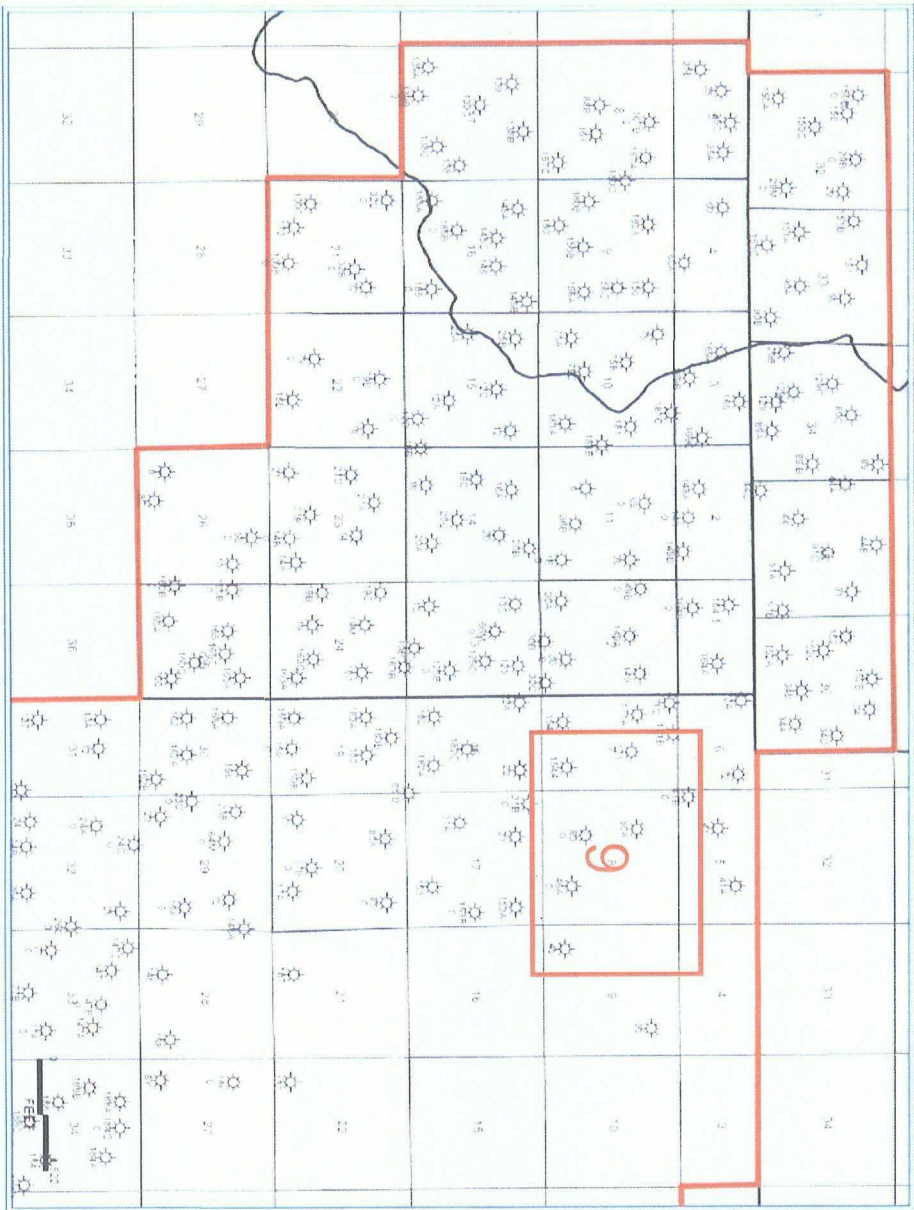




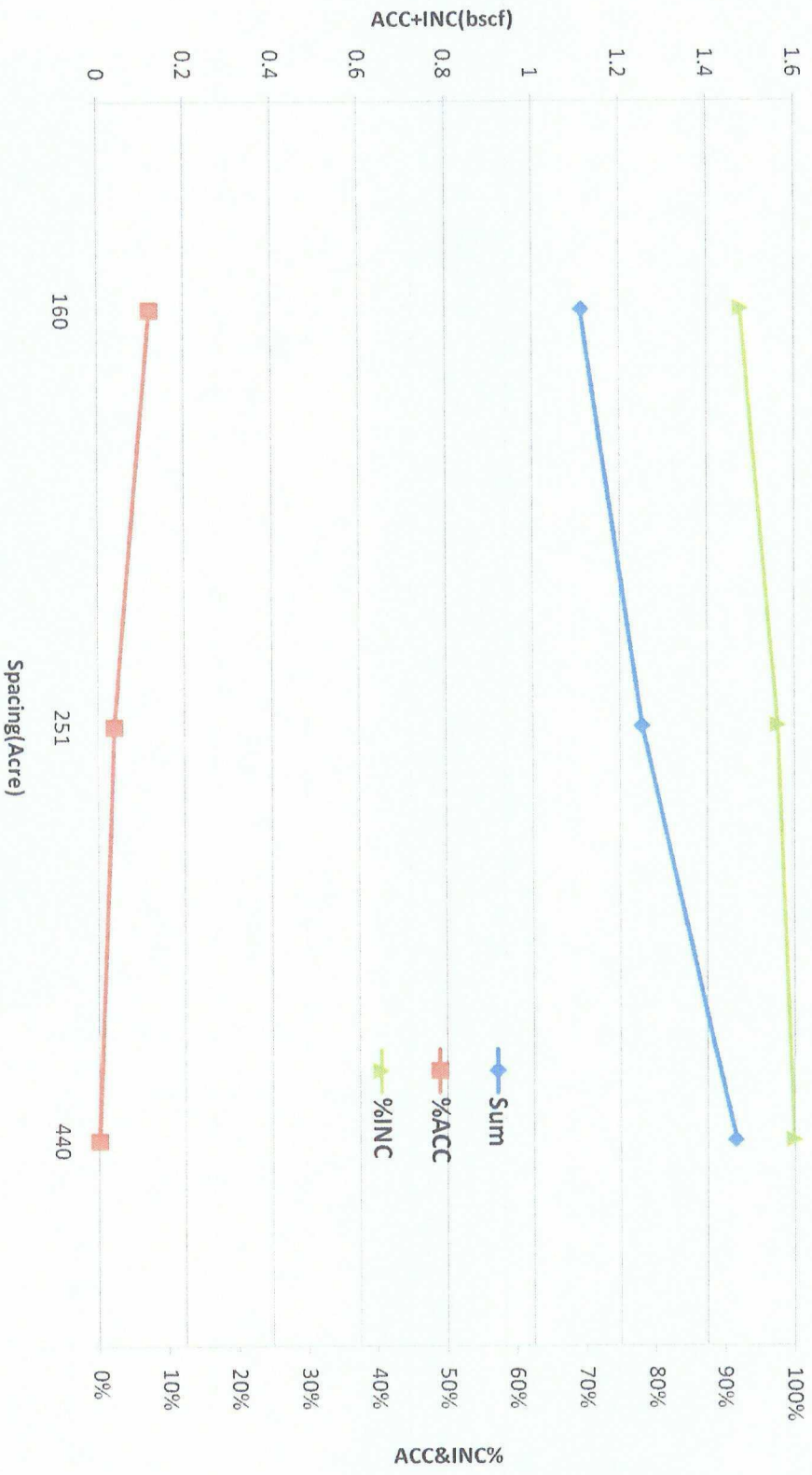
# Area 9



# Area 9

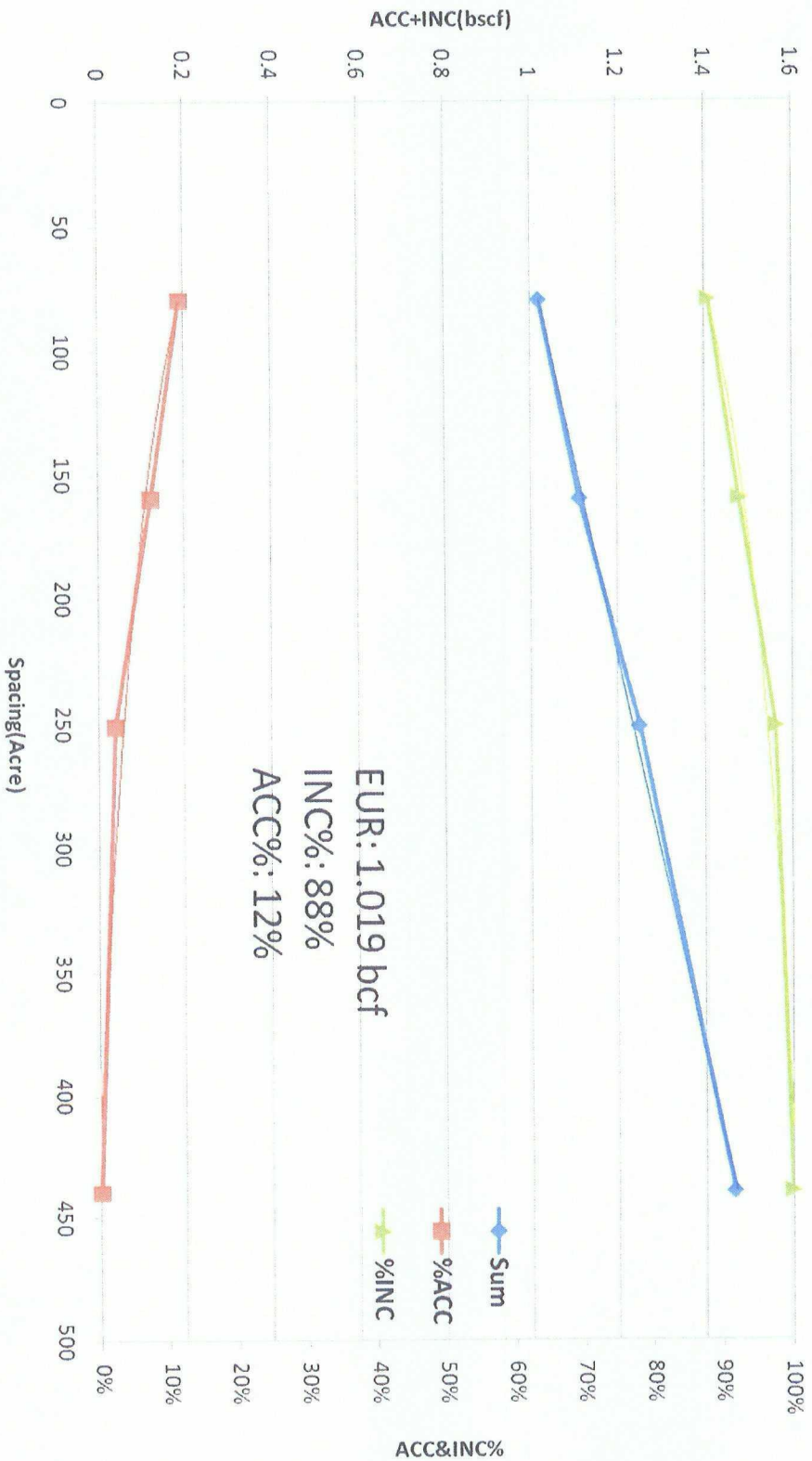


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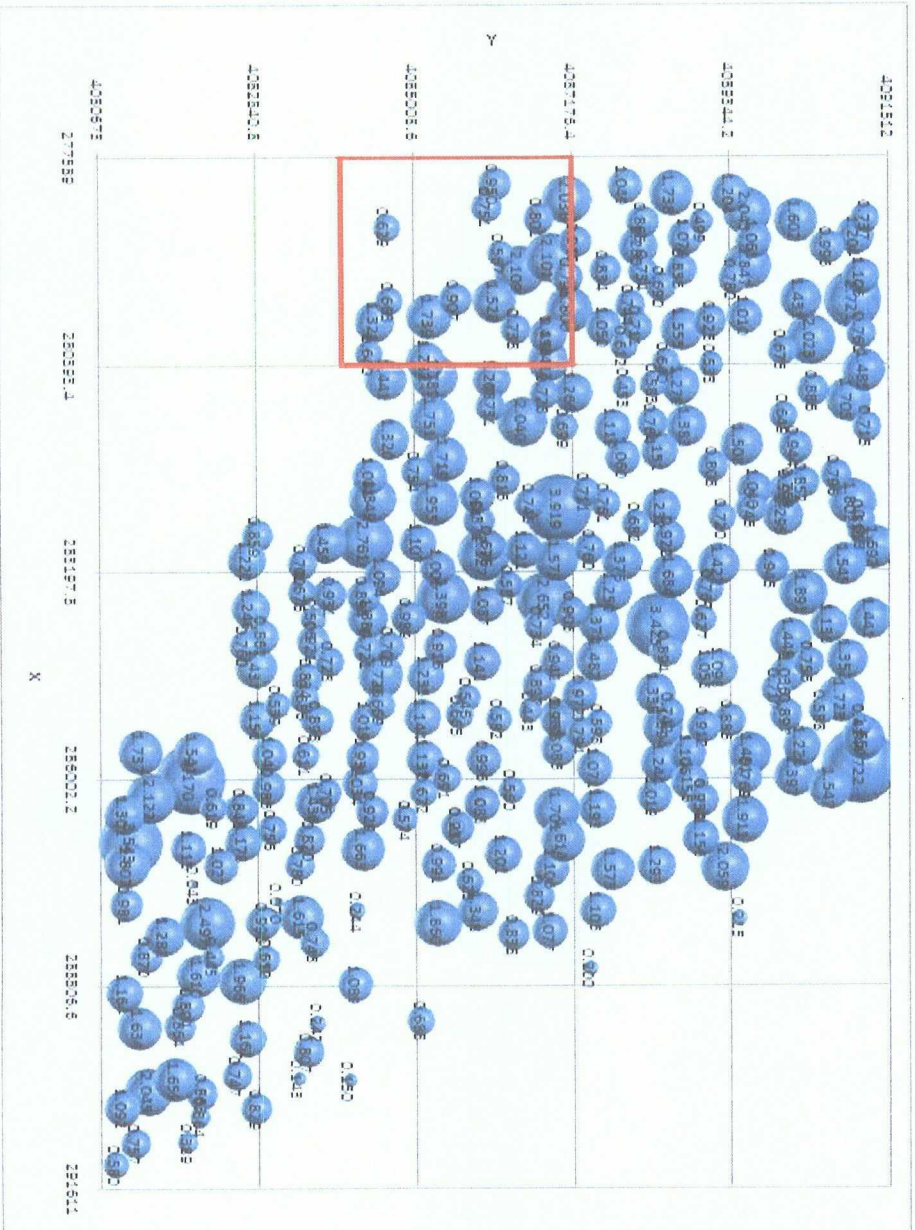


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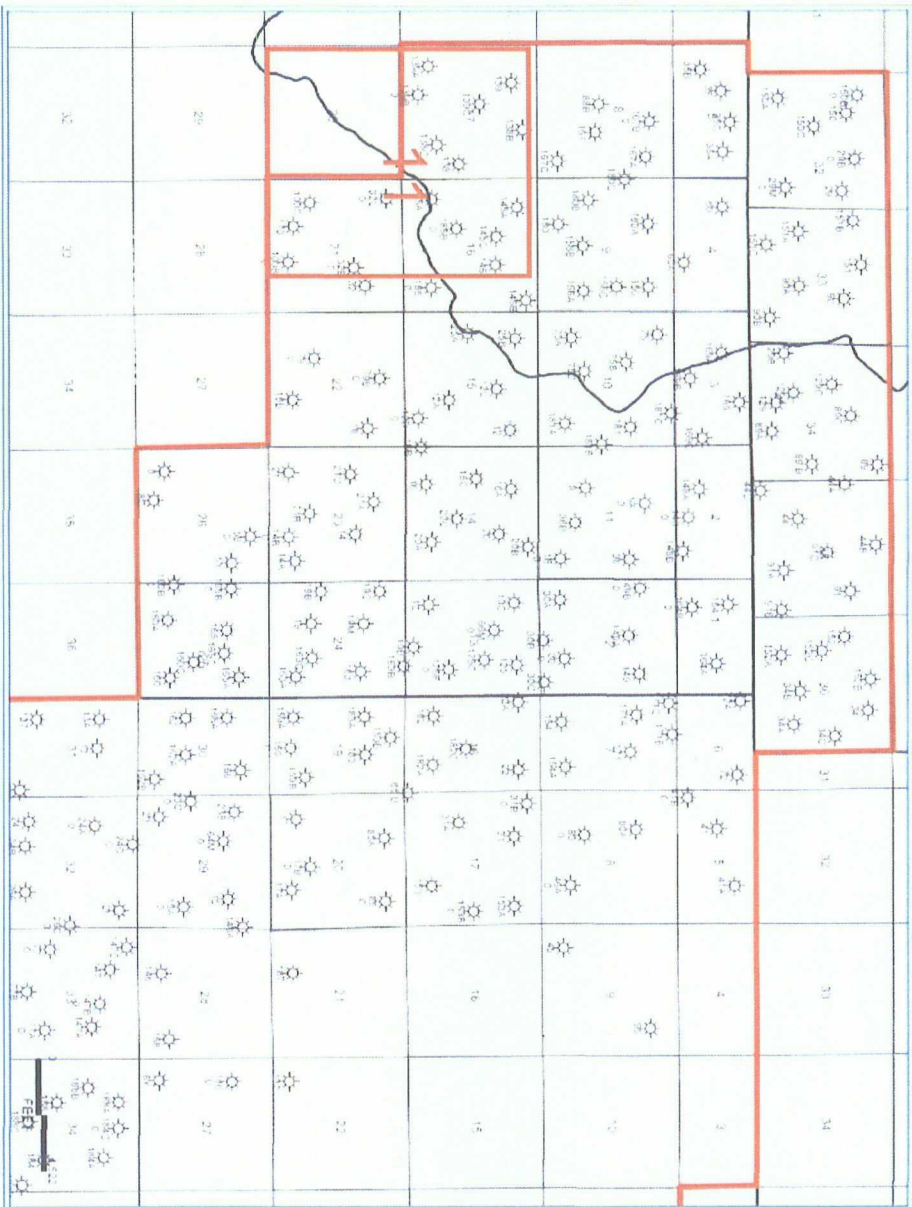
## Extrapolation



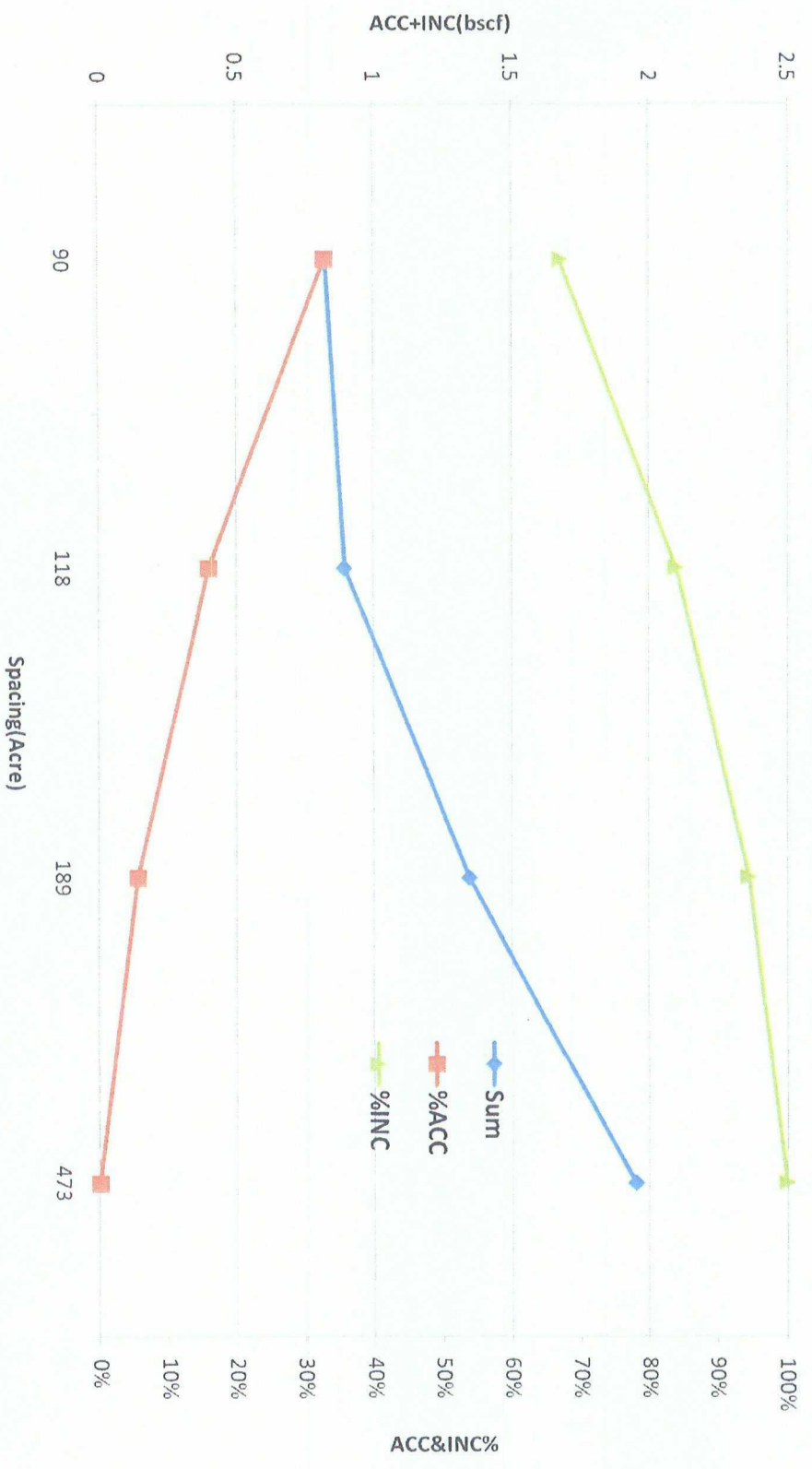
# Area 11



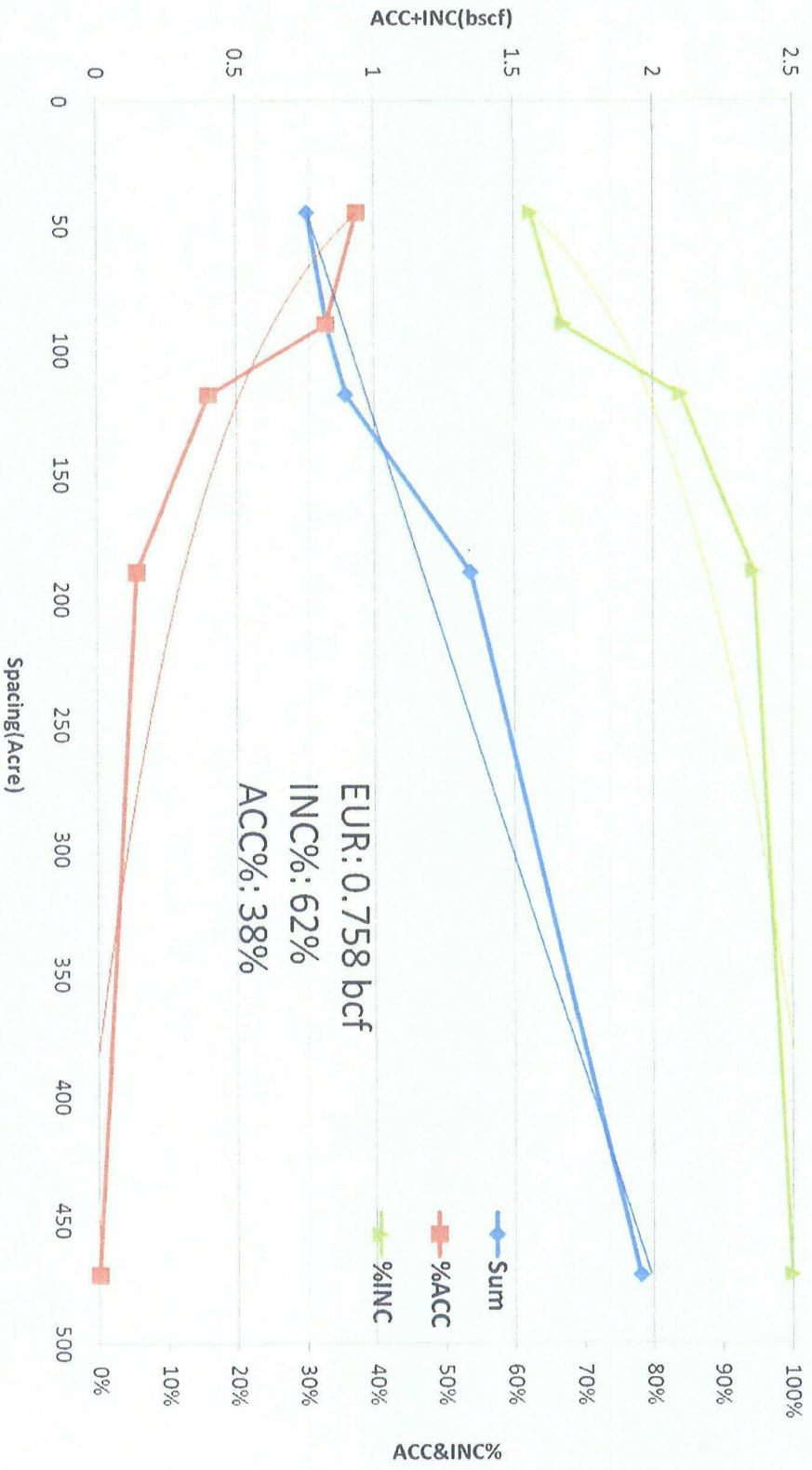
# Area 11



# Area 11 ACC&INC

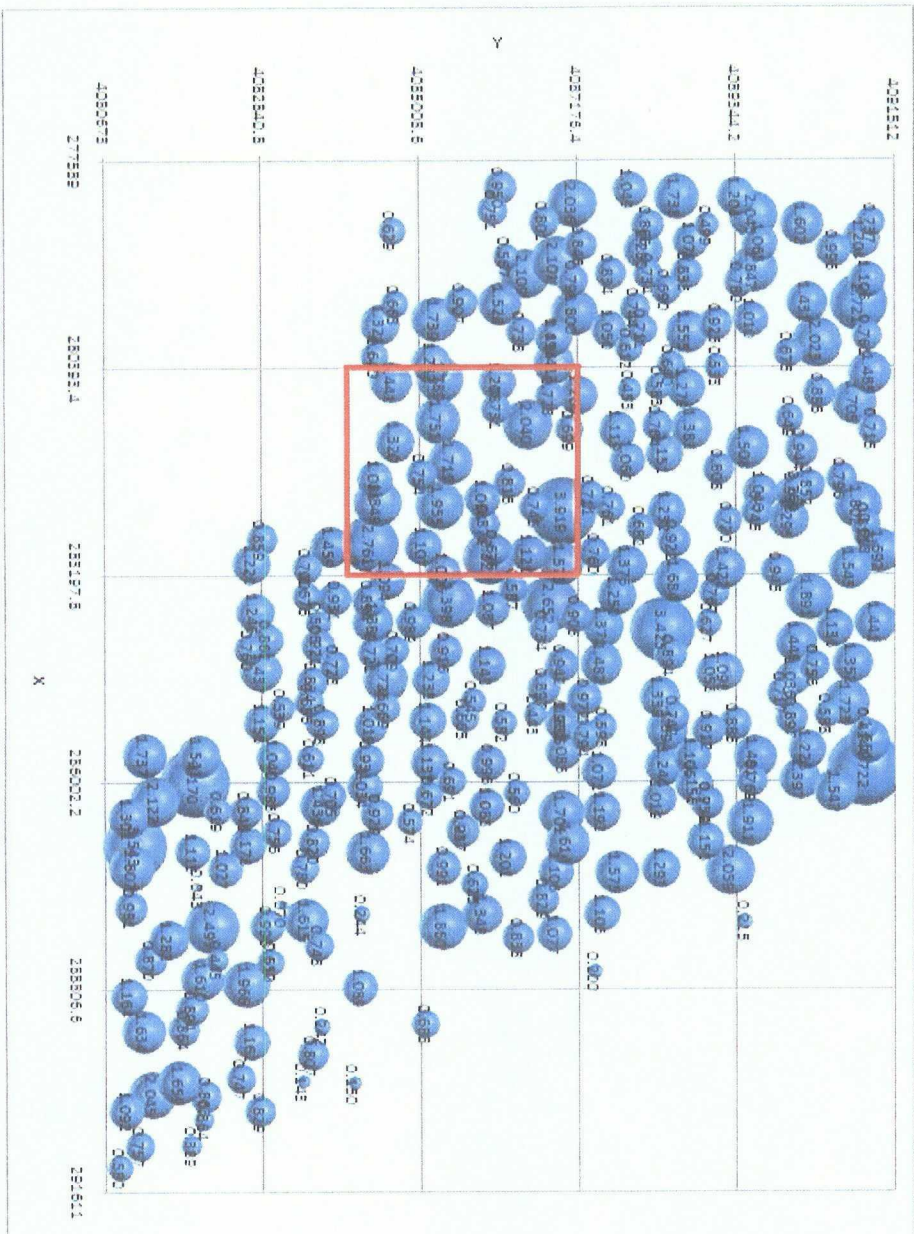


# Area 11 Extrapolation

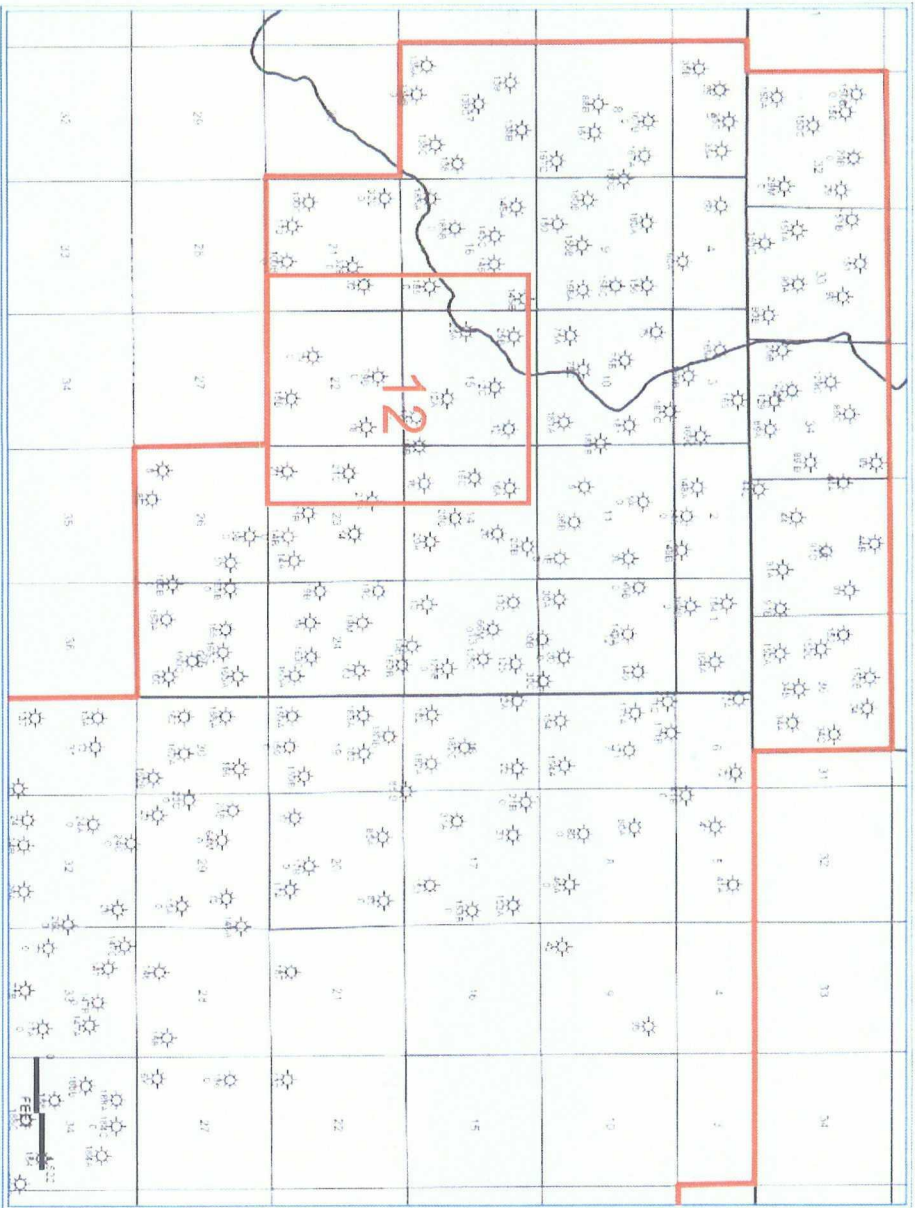




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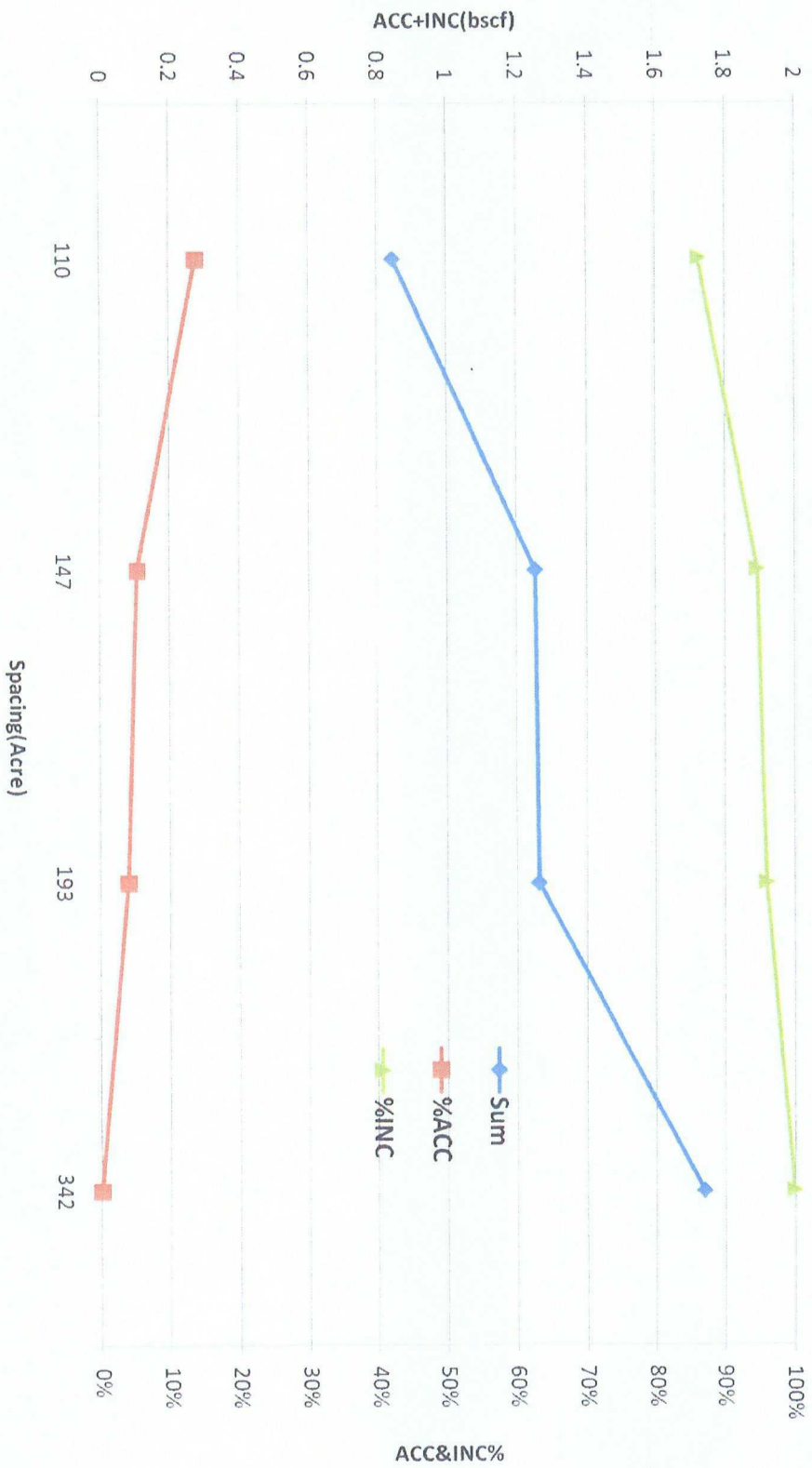


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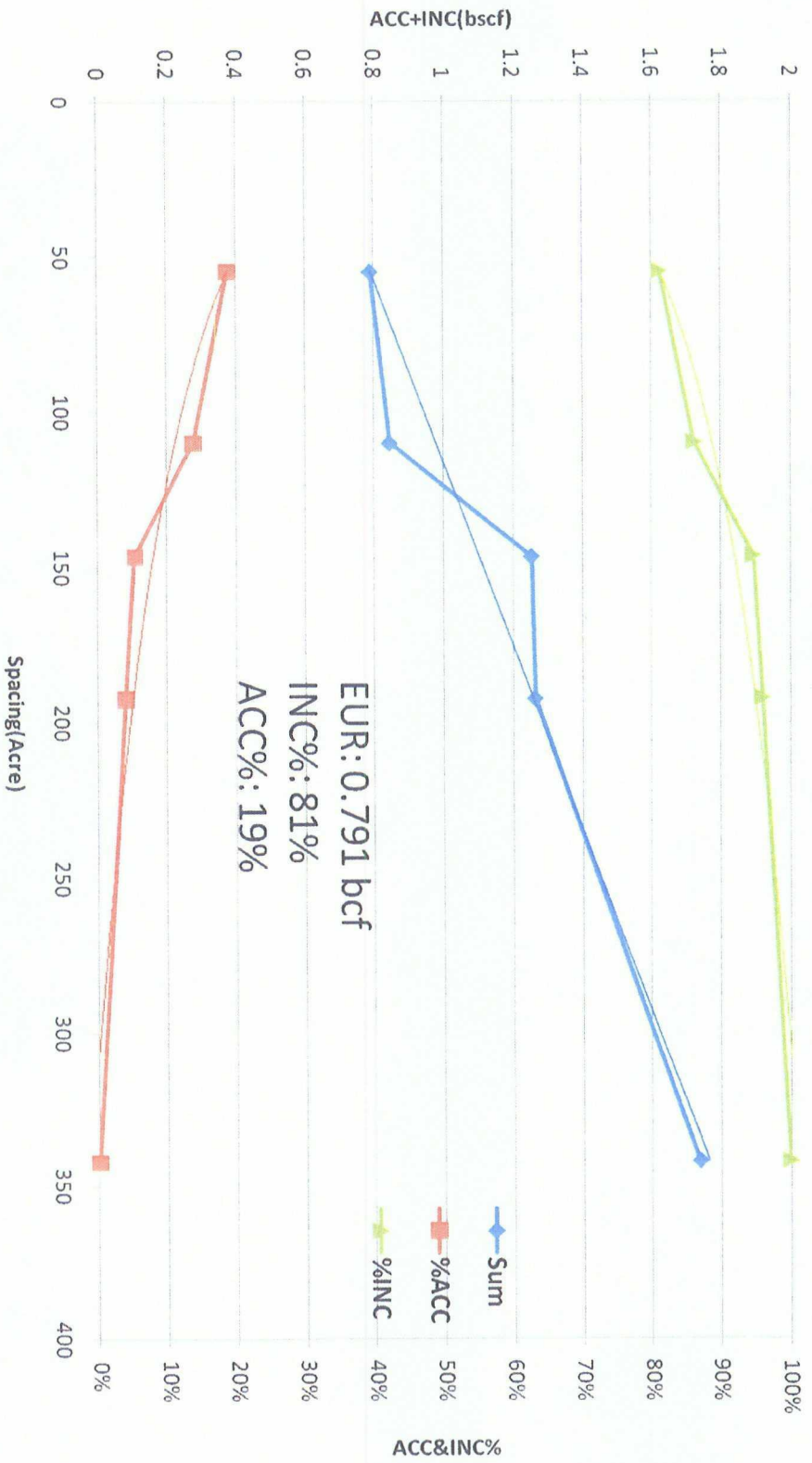


# Area 12

## ACC&INC

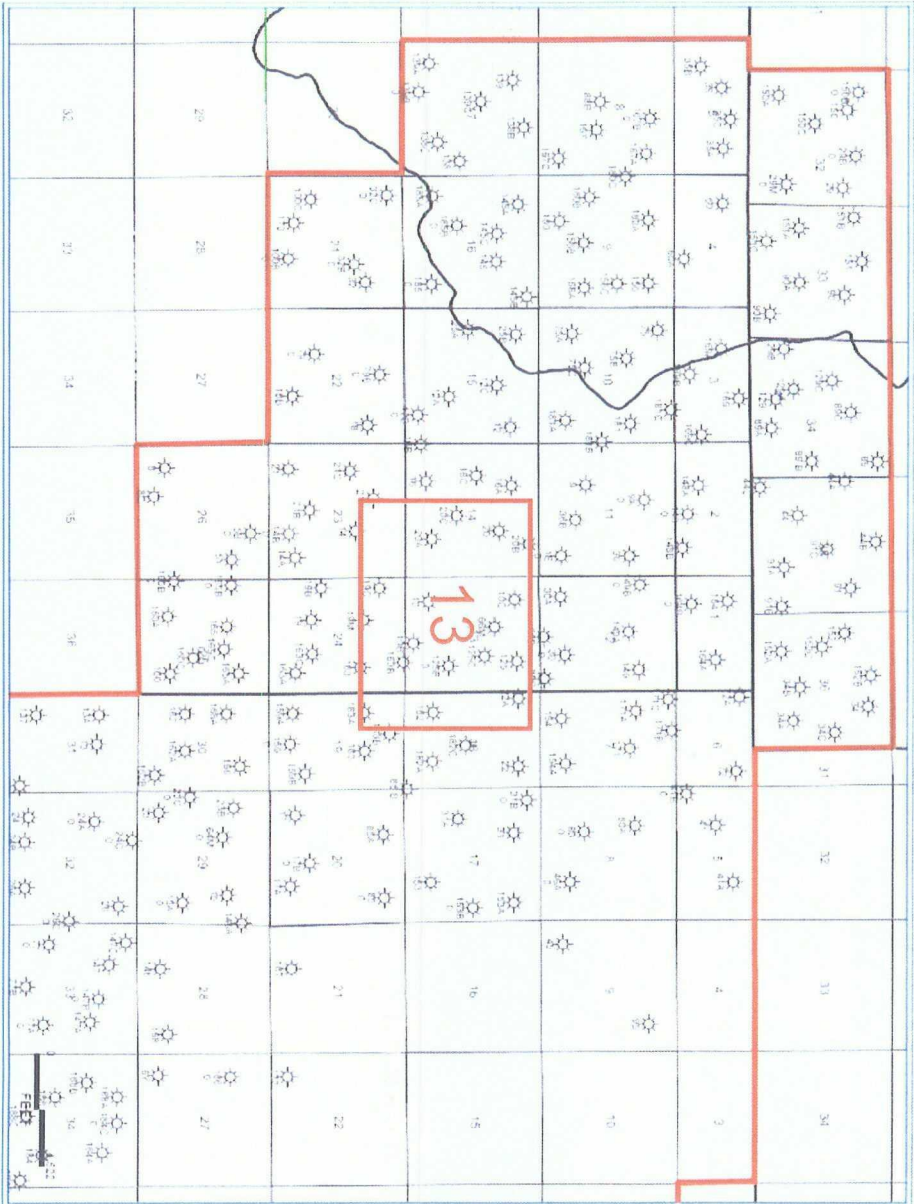


# Area 12 Extrapolation



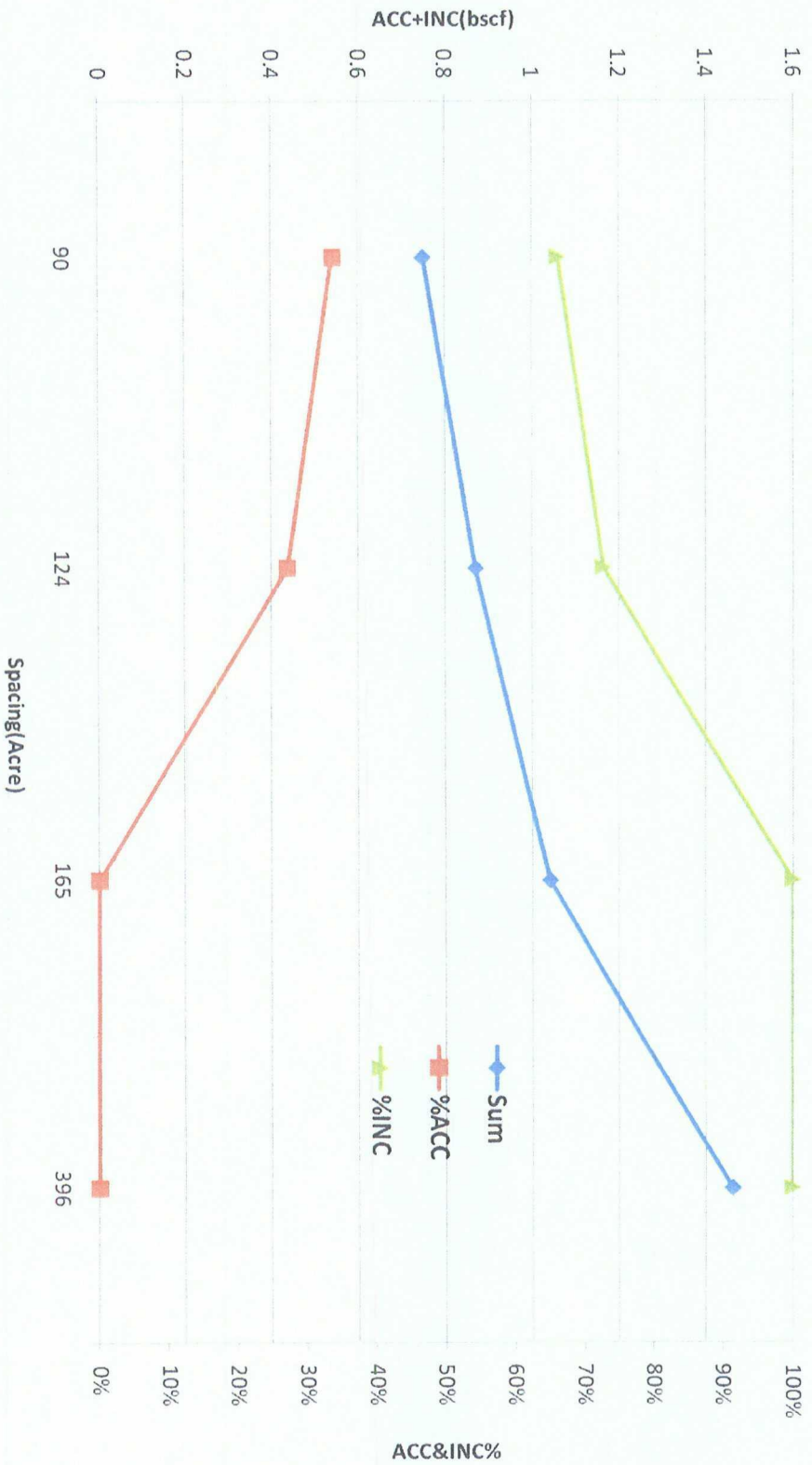


# Area 13



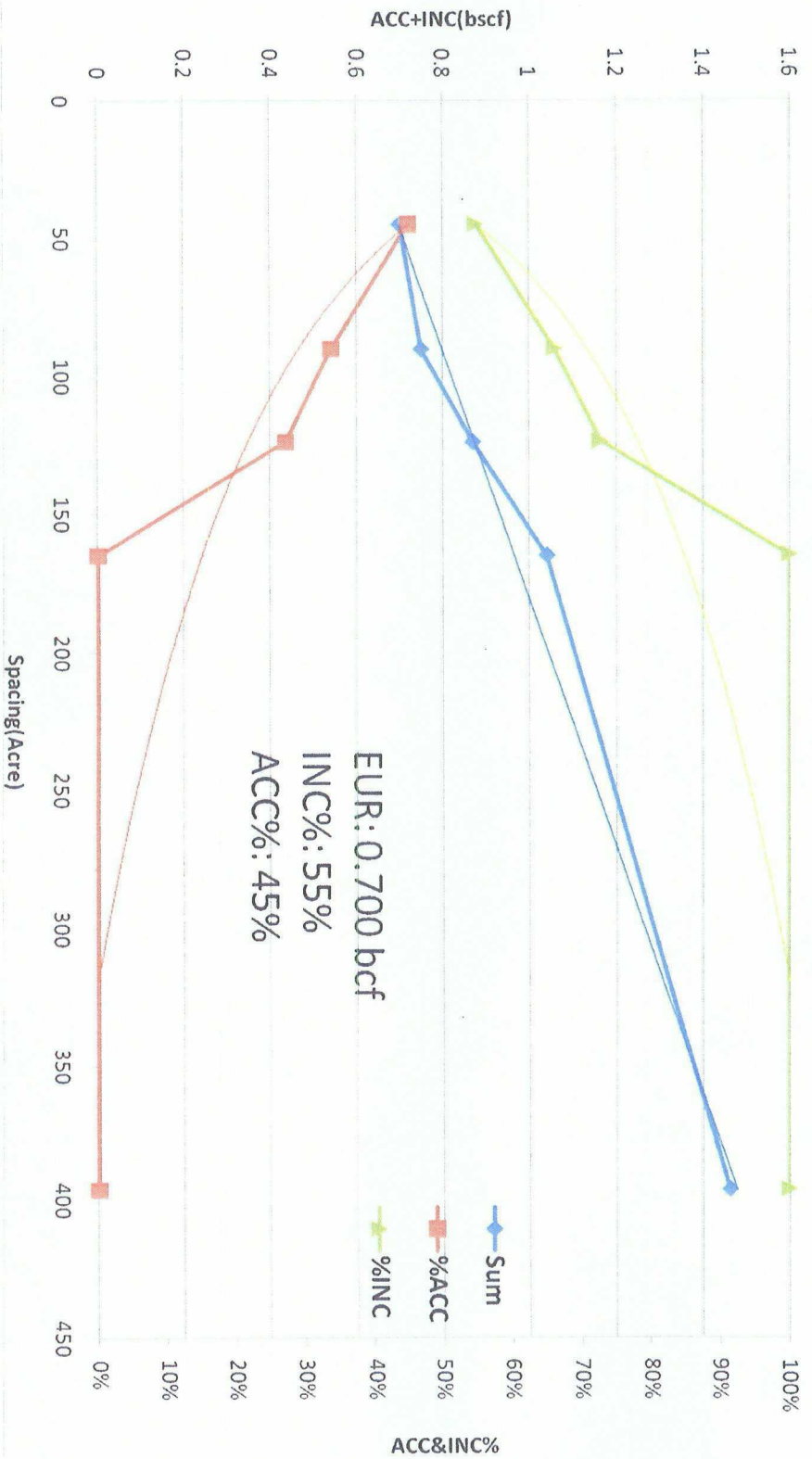
# Area 13

## ACC&INC



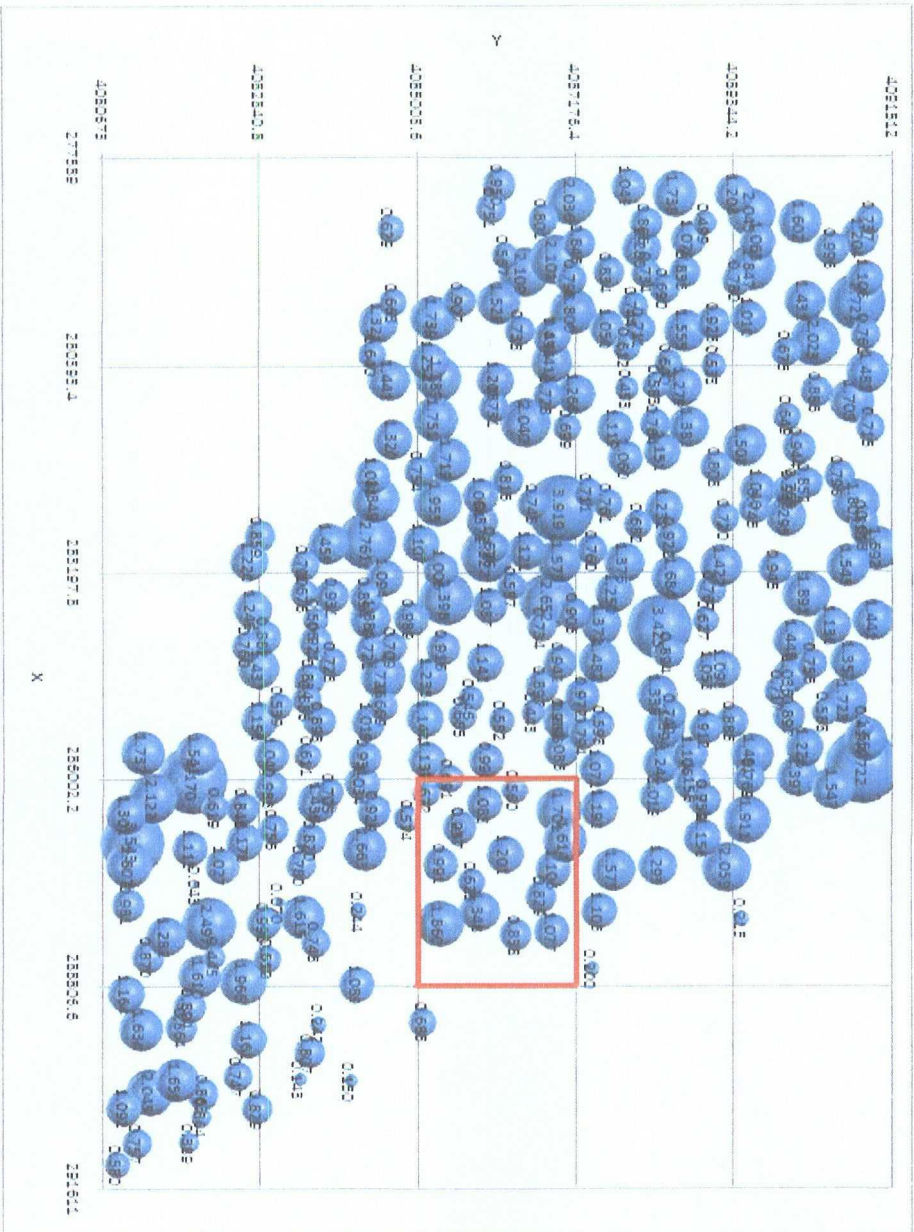
# Area 13

## Extrapolation

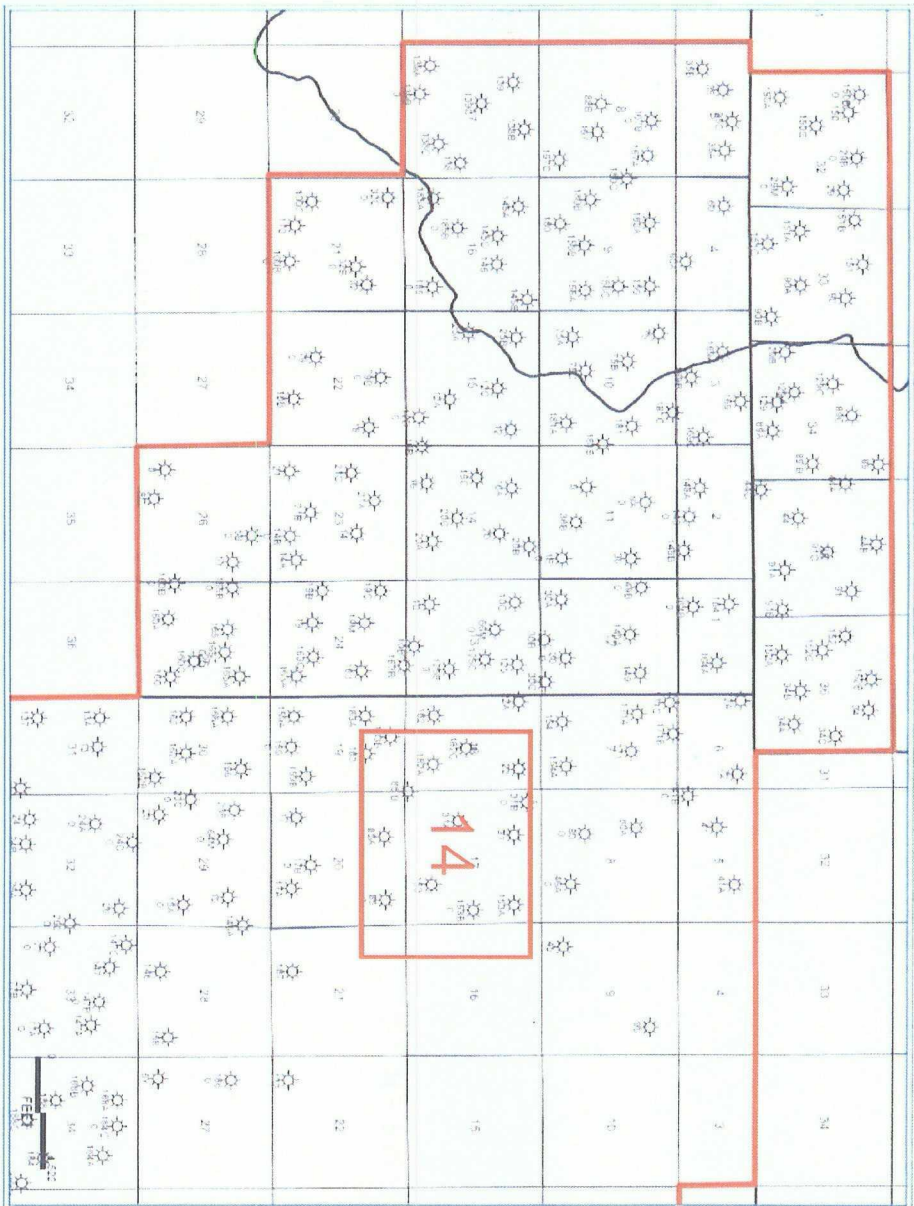




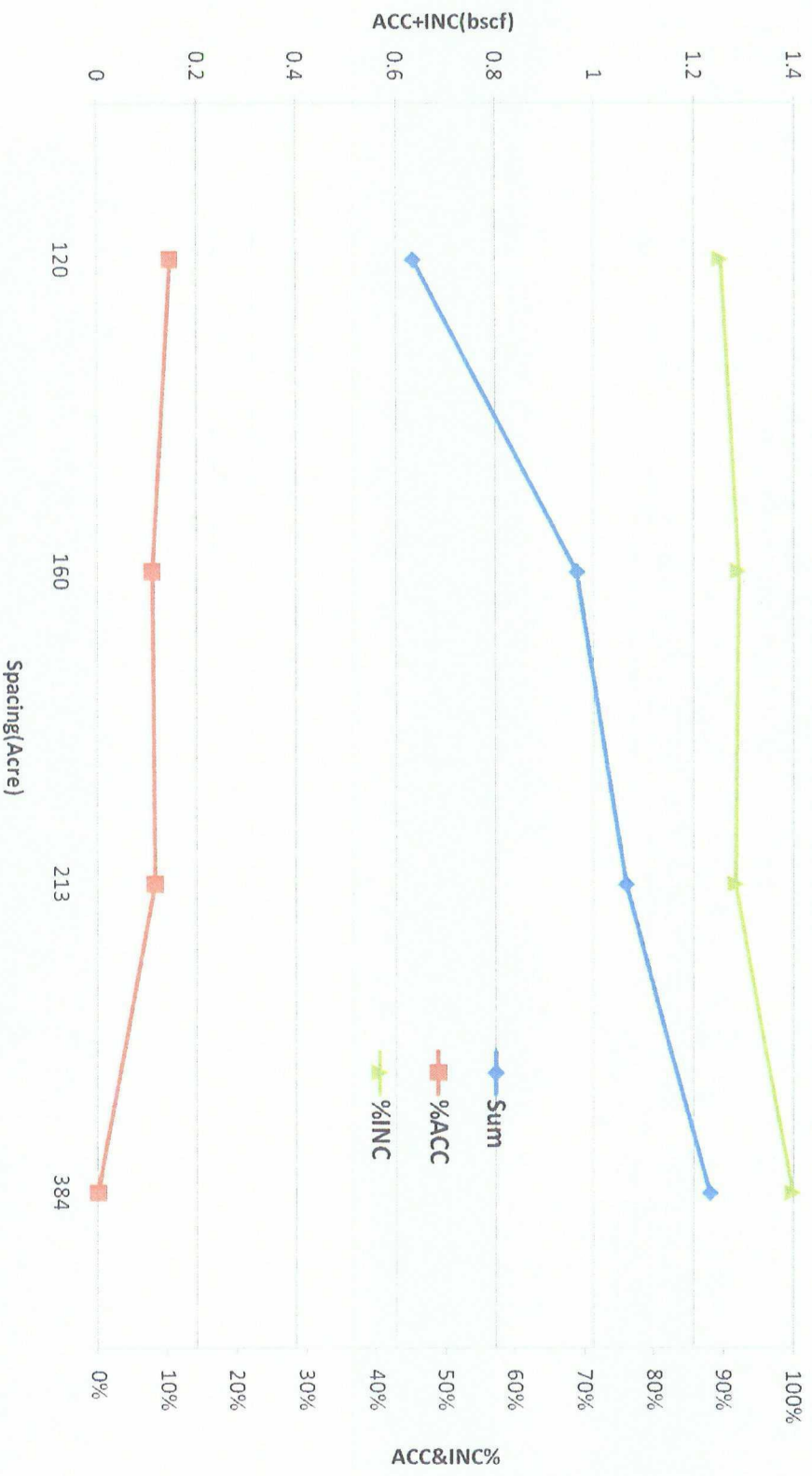
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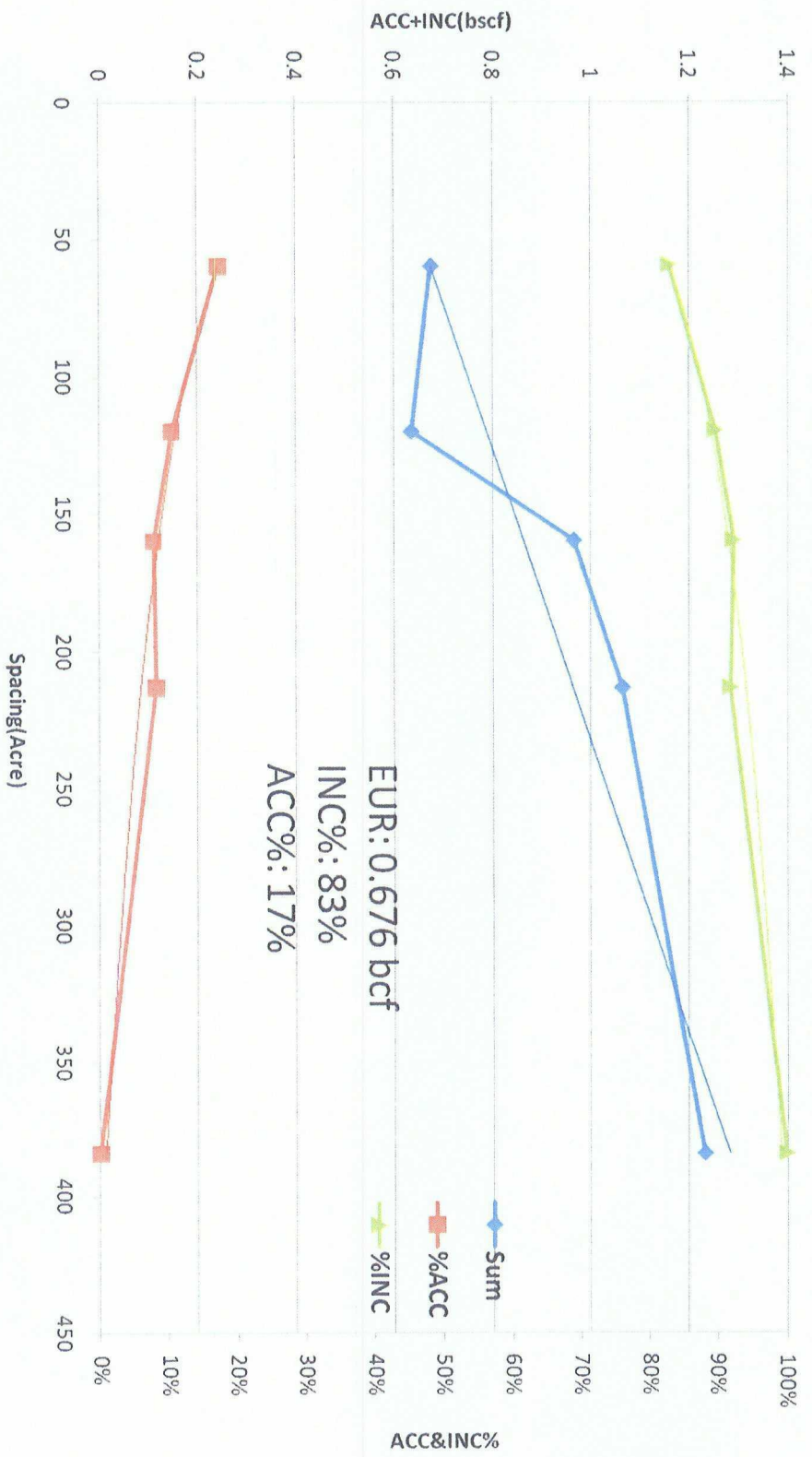
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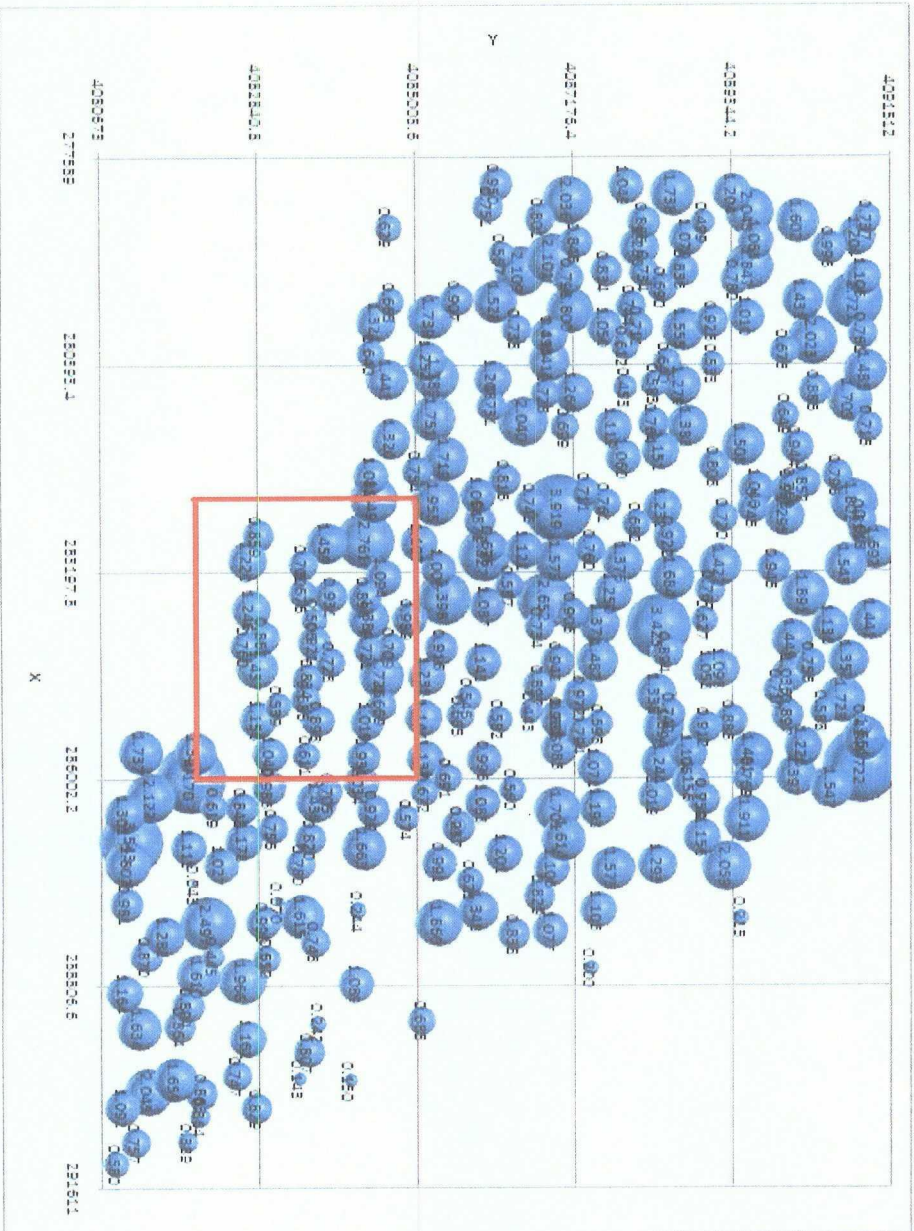
# Area 14 ACC&INC



# Area 14 Extrapolation

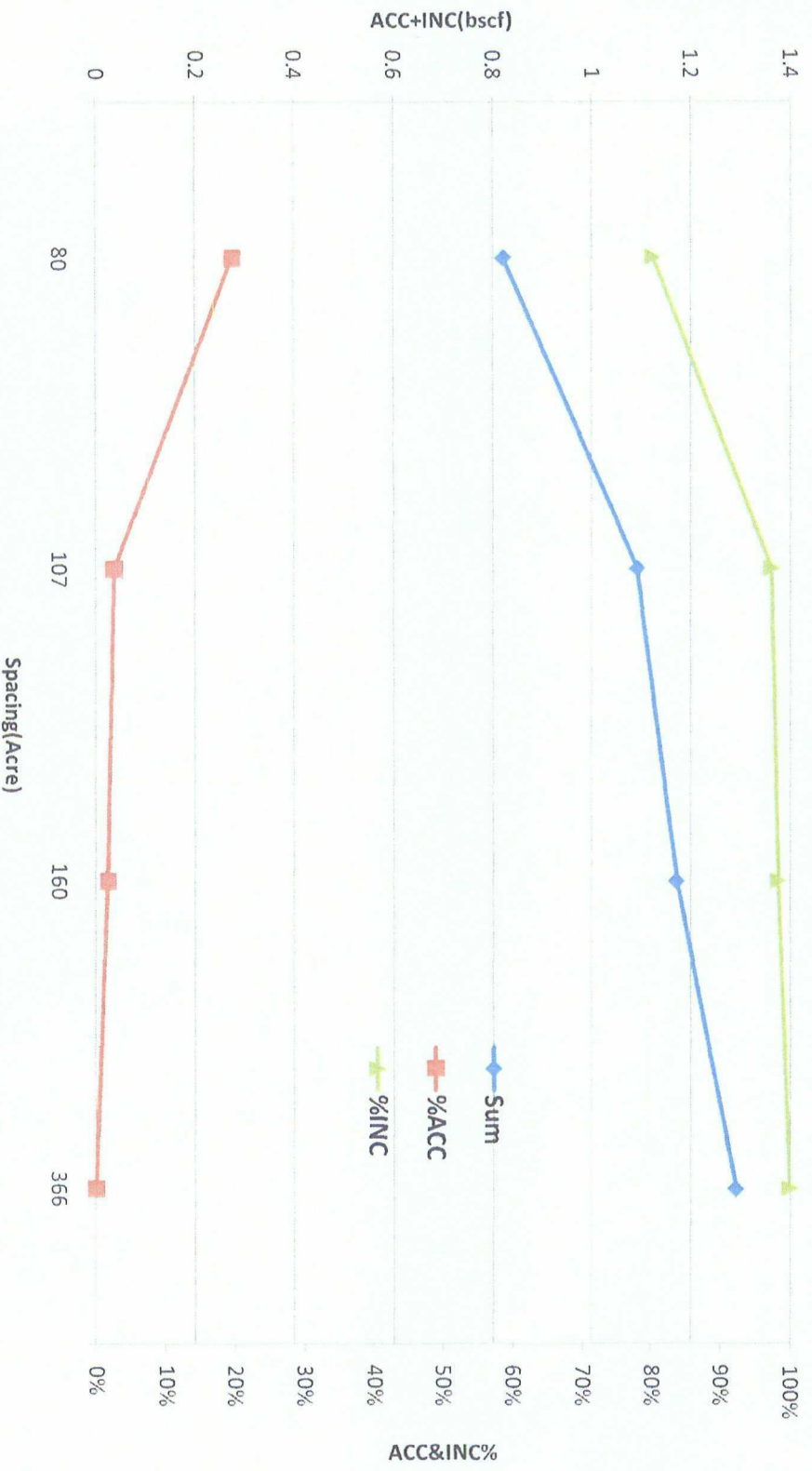


# Area 18

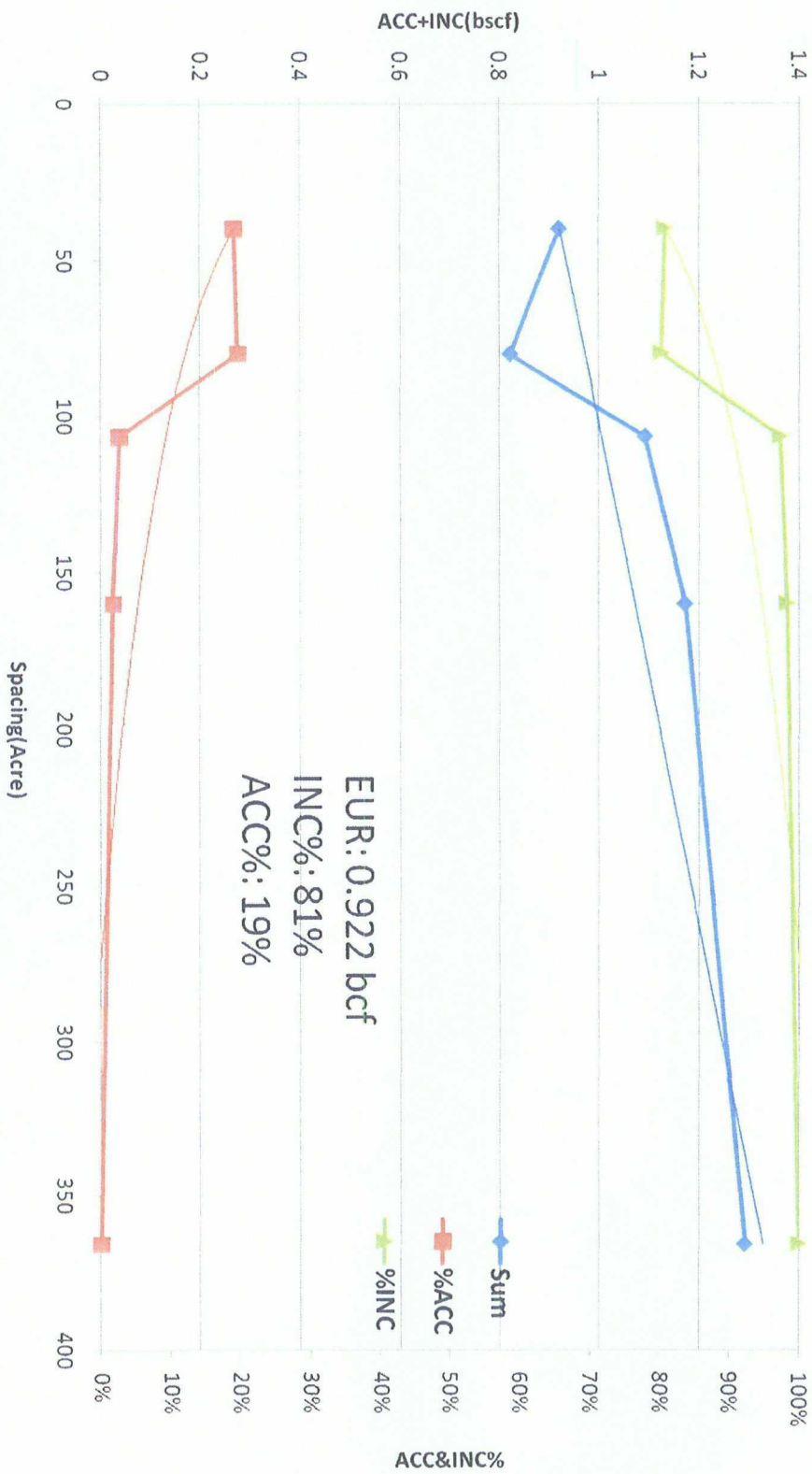




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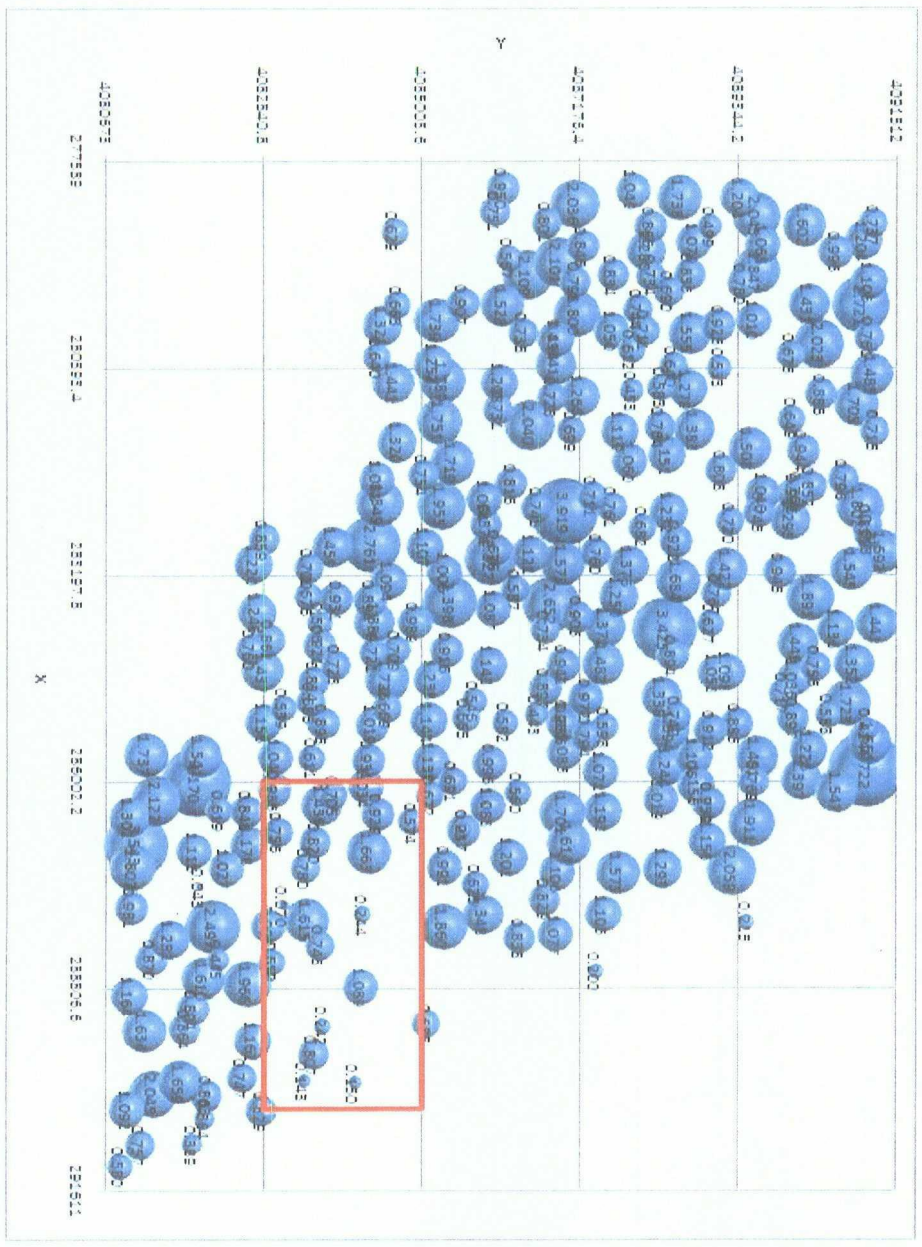


# Area 18 Extrapolation



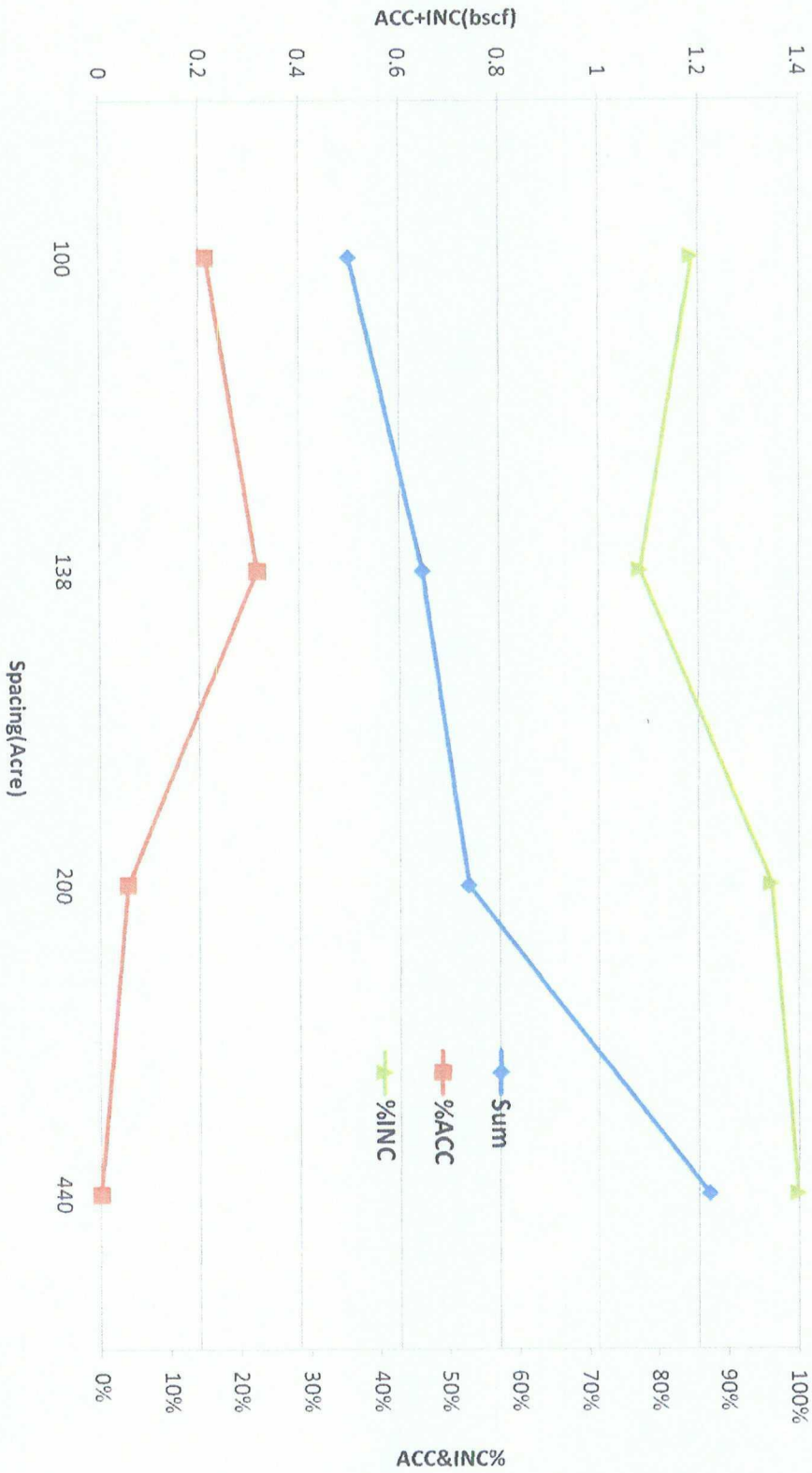


# Area 19

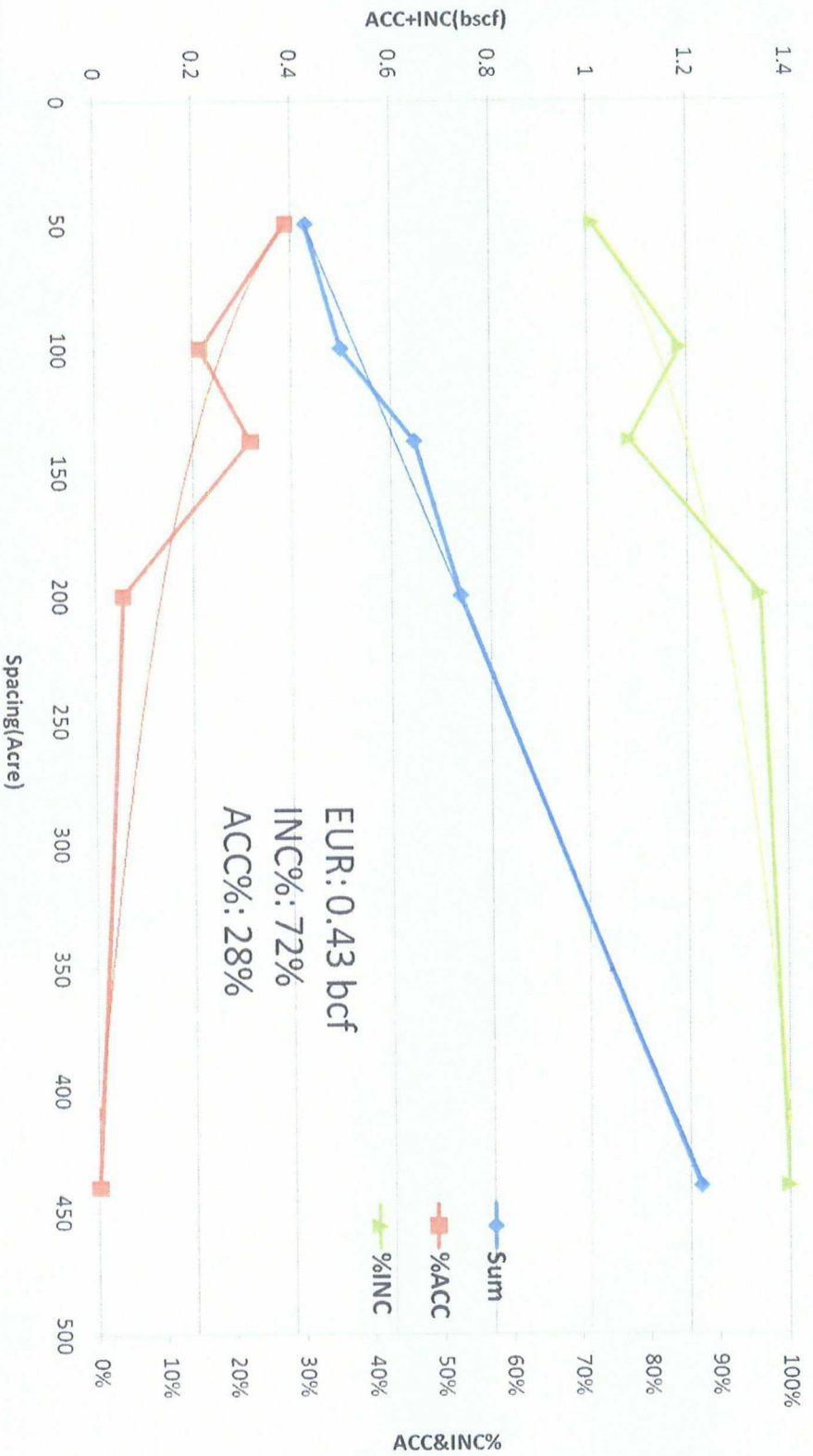




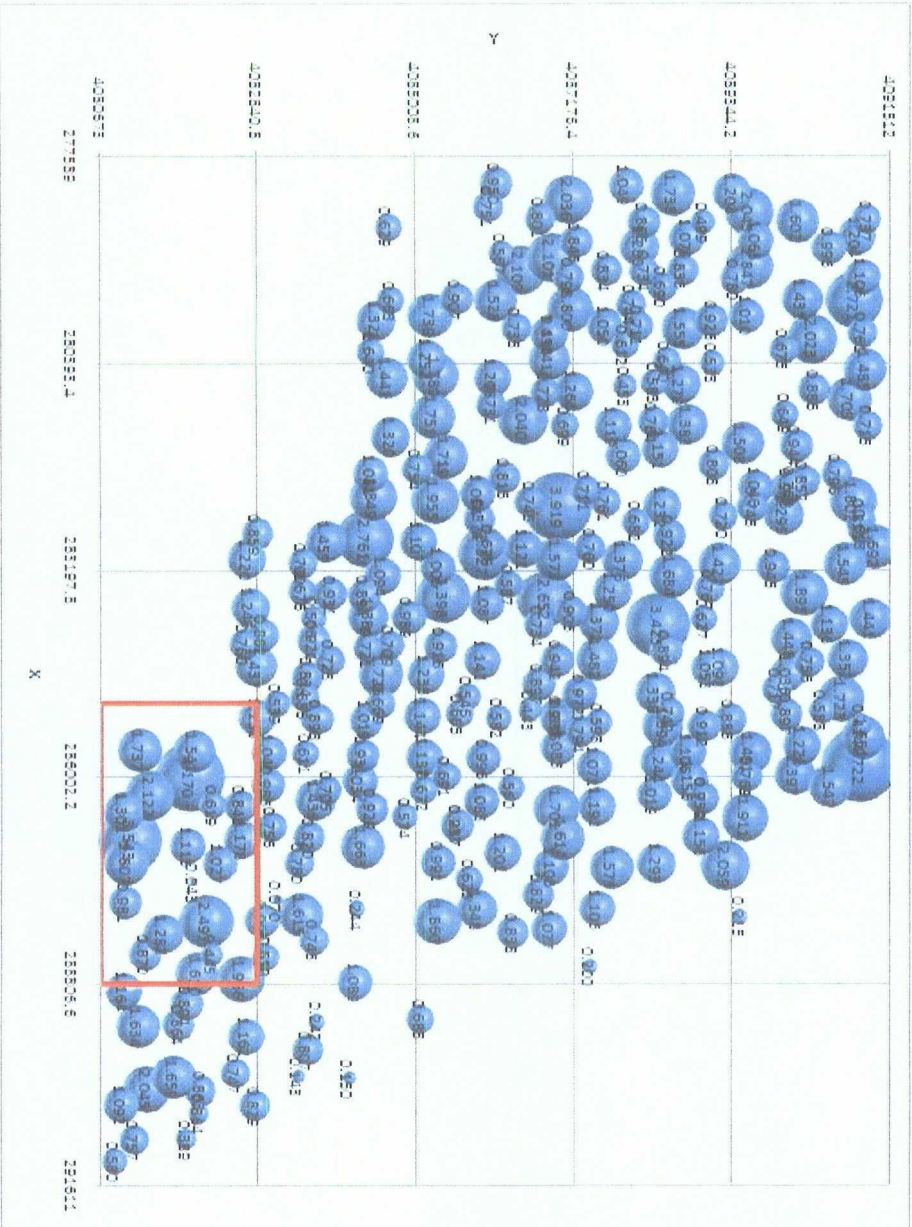
# Area 19 ACC&INC



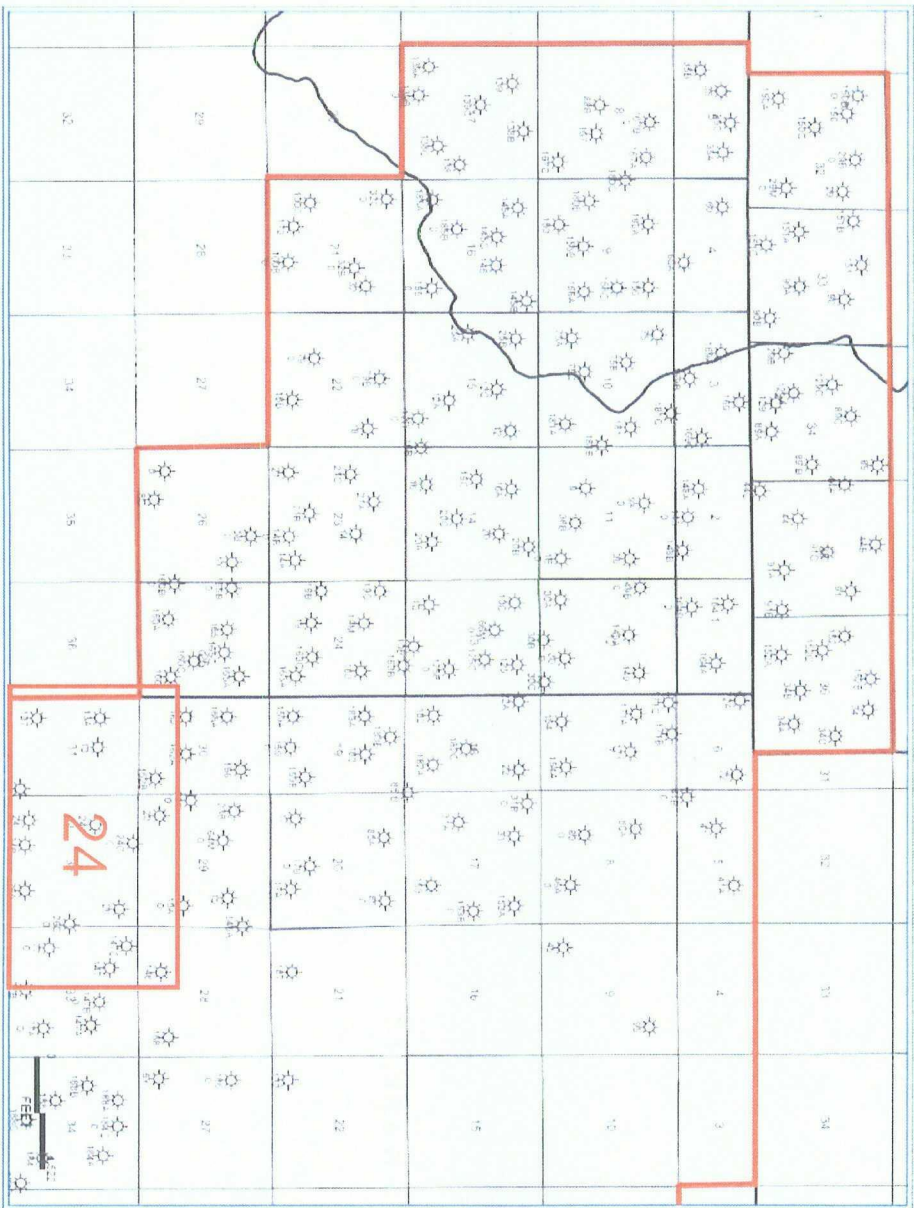
# Area 19 Extrapolation



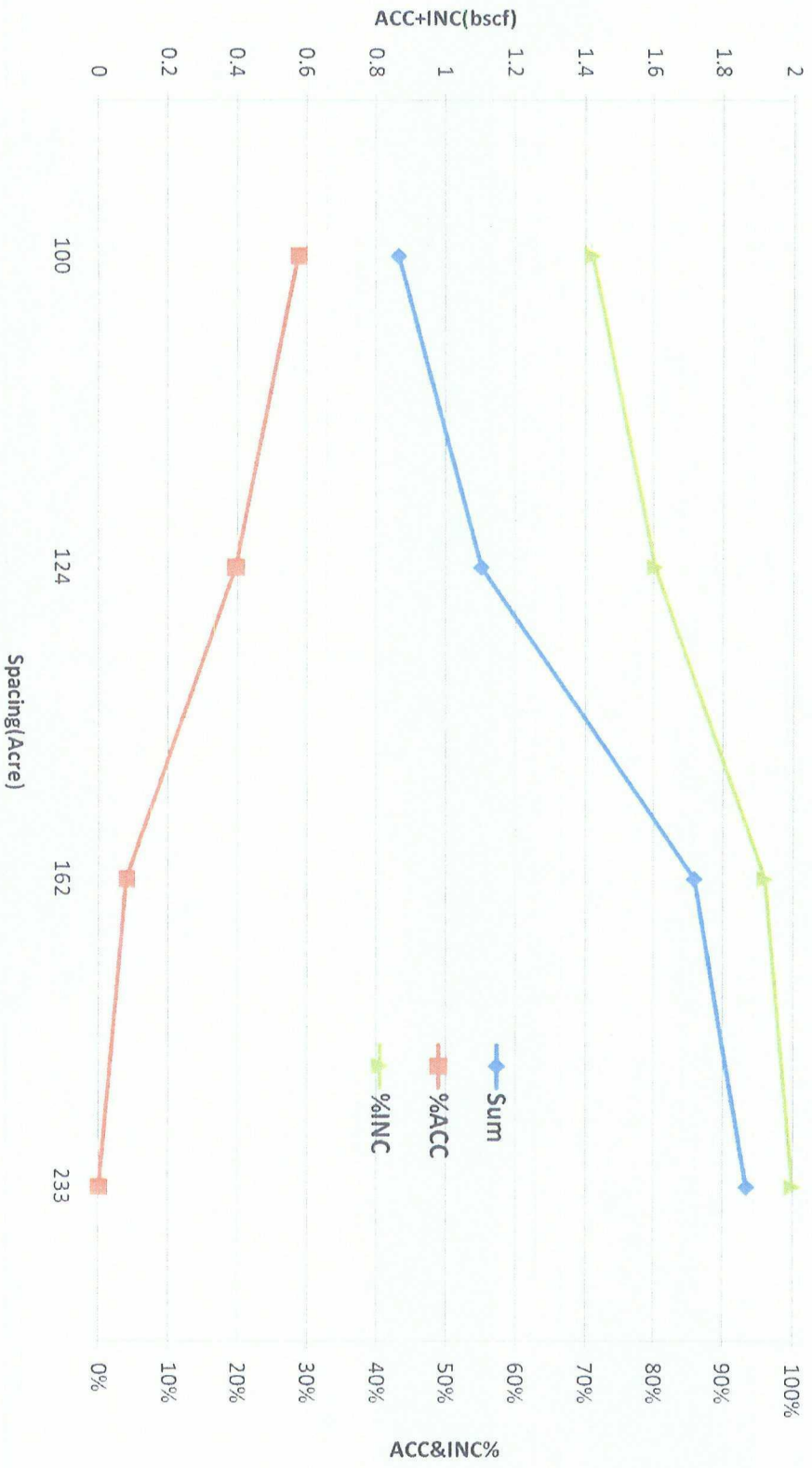
# Area 24



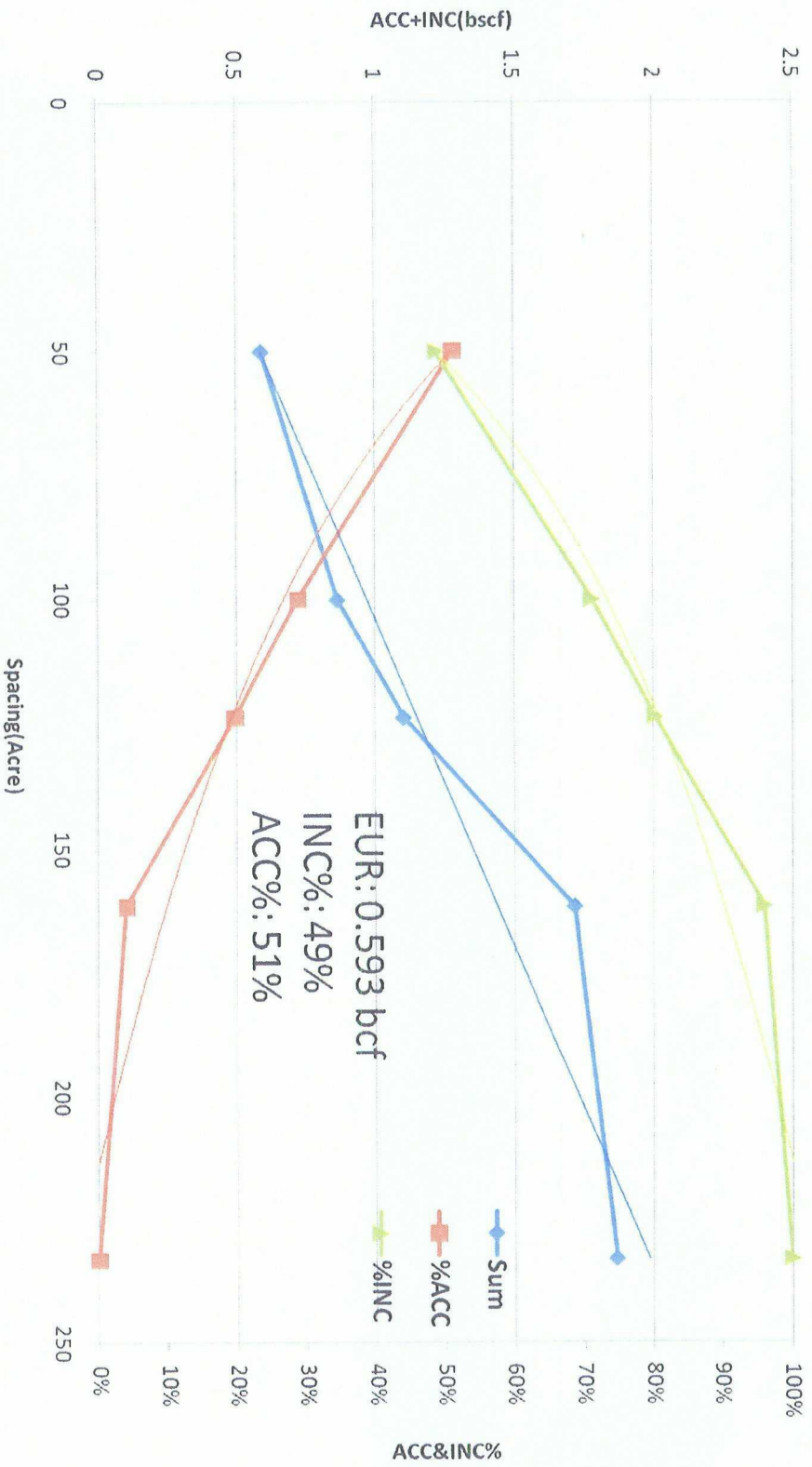
# Area 24



# Area 24 ACC&INC



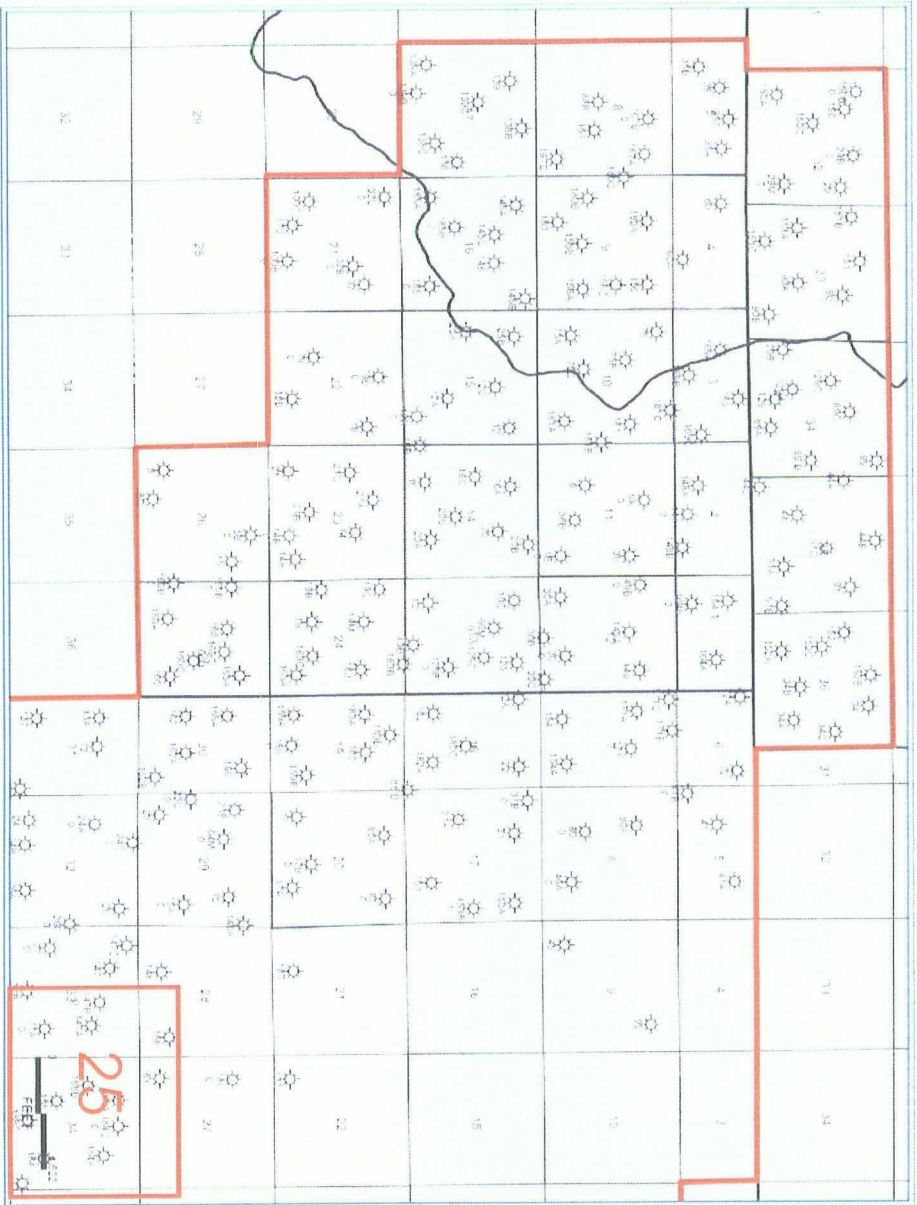
# Area 24 Extrapolation



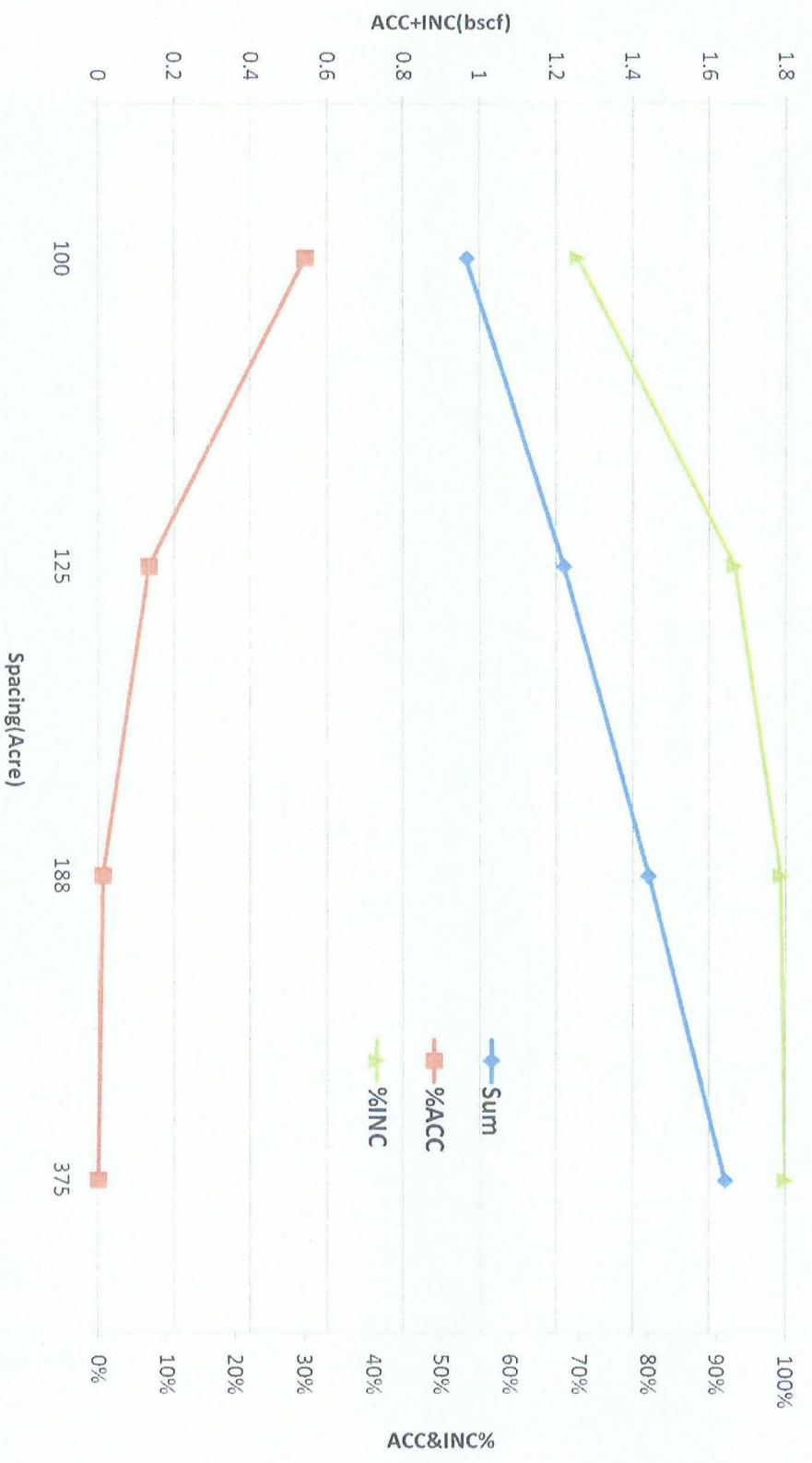




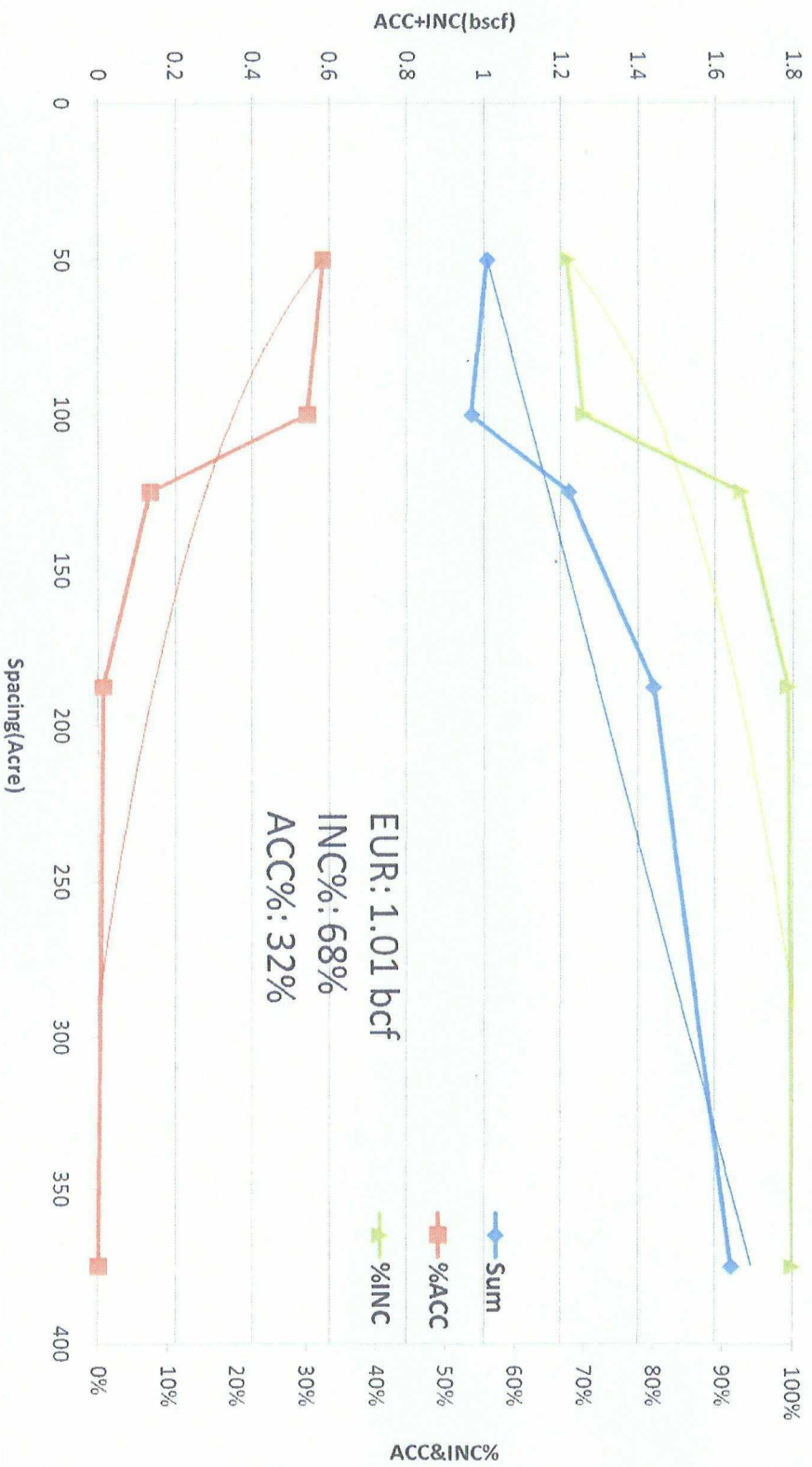
# Area 25



# Area 25 ACC&INC



# Area 25 Extrapolation

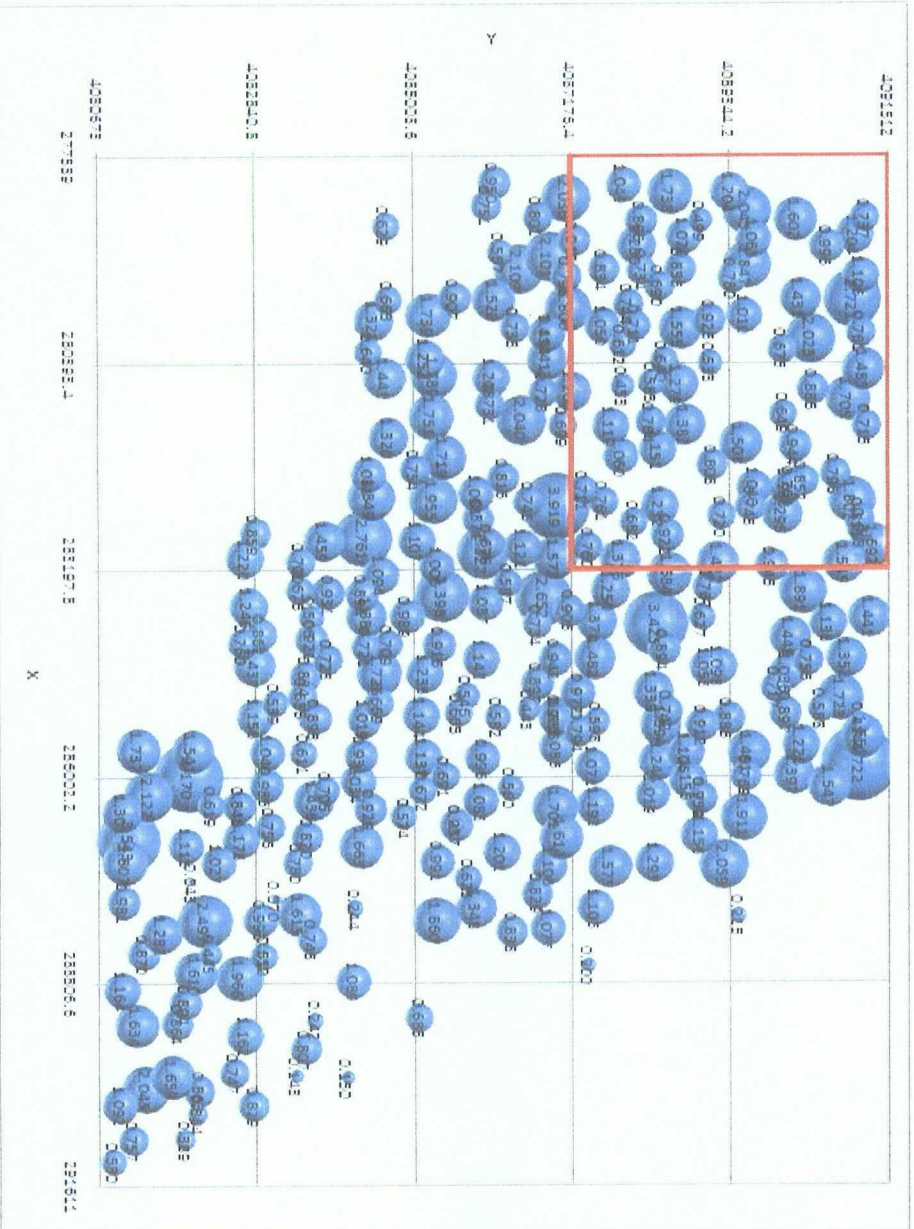


# Multi-Sections

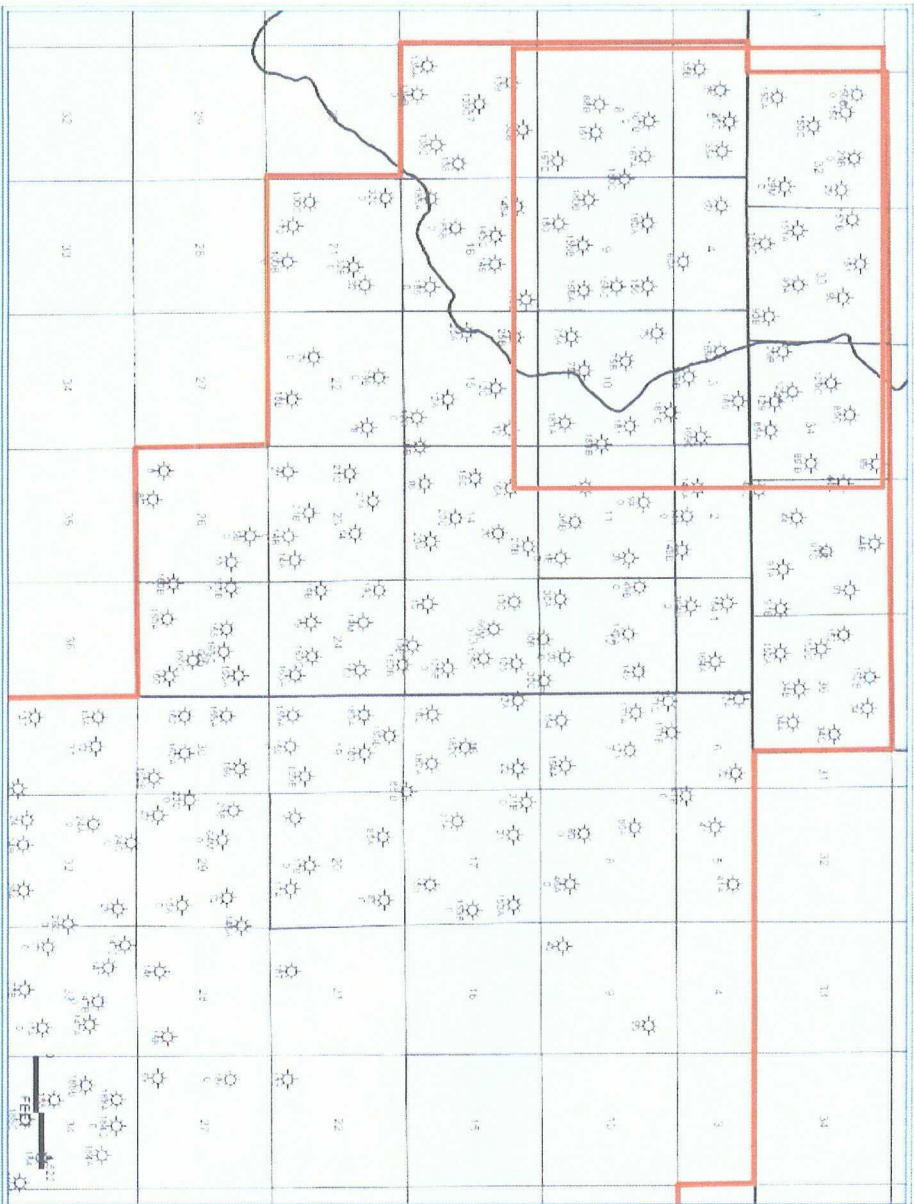
Results:

	Sum	%(ACC)	%(INC)	ACC	INC
Area 1,2,6,7:	0.891	15%	85%	0.132	0.758
Area 3,4,8,9:	0.899	21%	79%	0.189	0.708
Area 11,12,16,17:	0.794	26%	74%	0.206	0.587
Area 13,14,18,19:	0.733	28%	72%	0.206	0.526
Area 19,20,24,25:	0.714	43%	57%	0.310	0.405
Average:	0.806	27%	73%	0.209	0.597

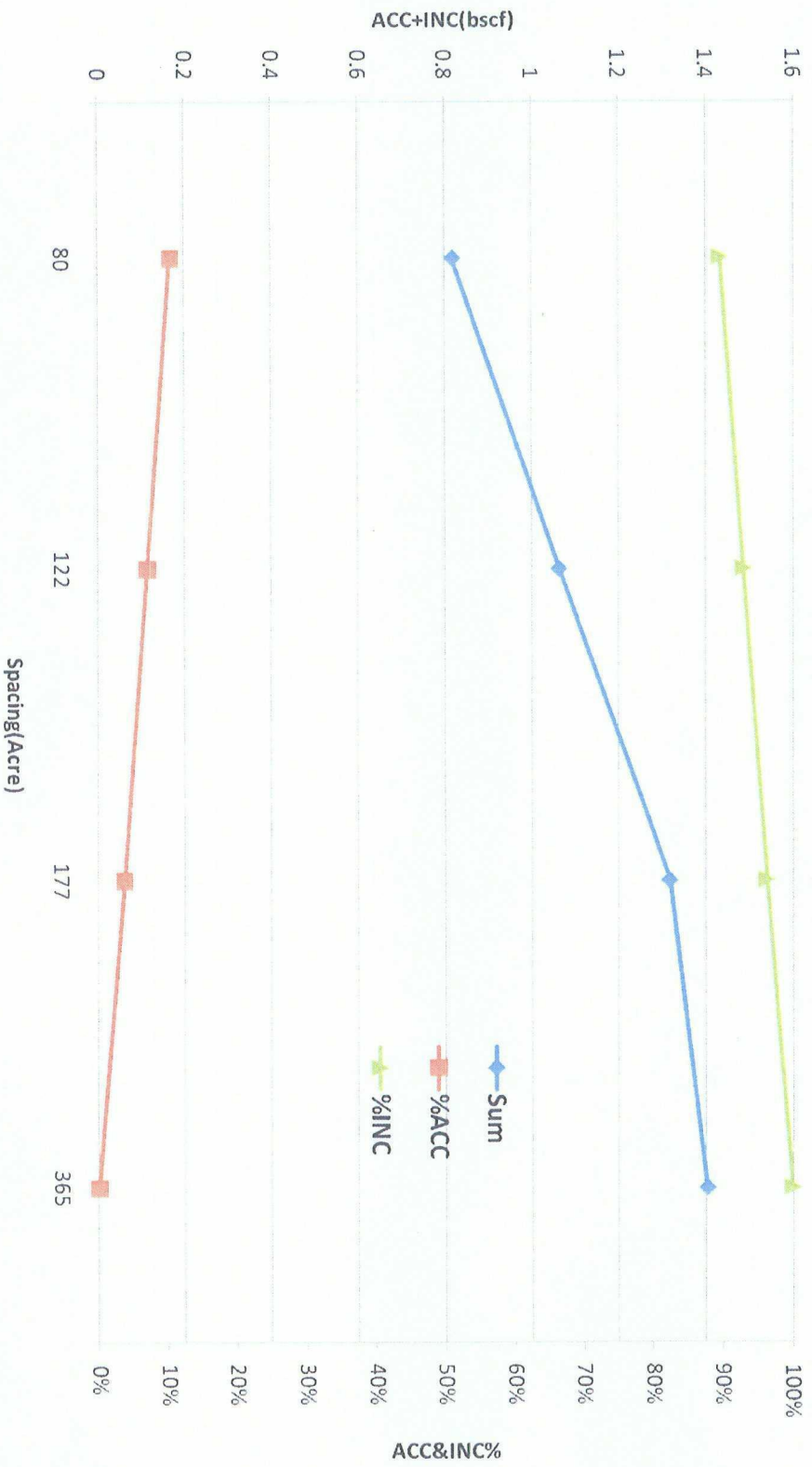
# Area 1,2,6,7



# Area 1,2,6,7

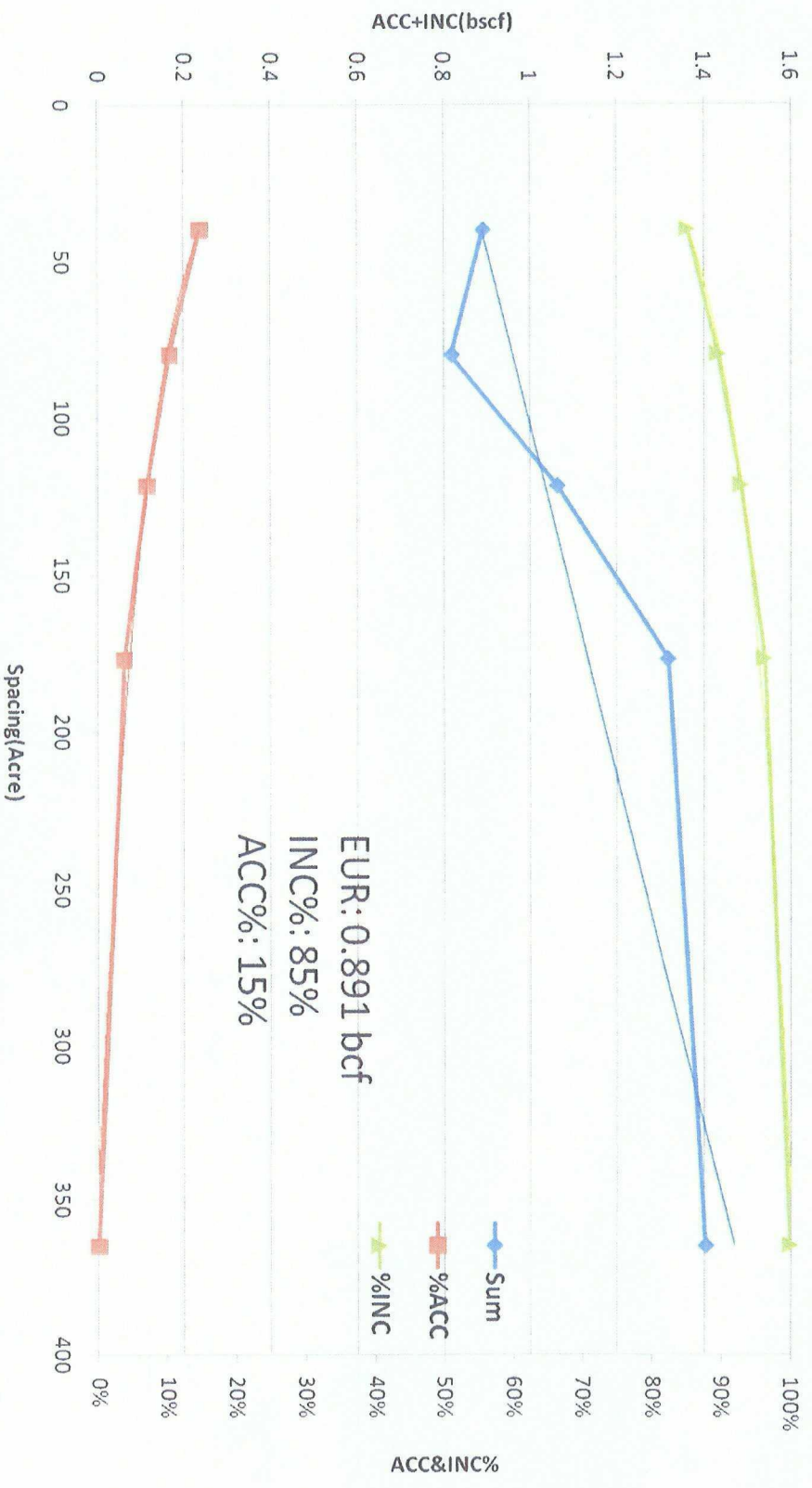


# Area 1,2,6,7 ACC&INC





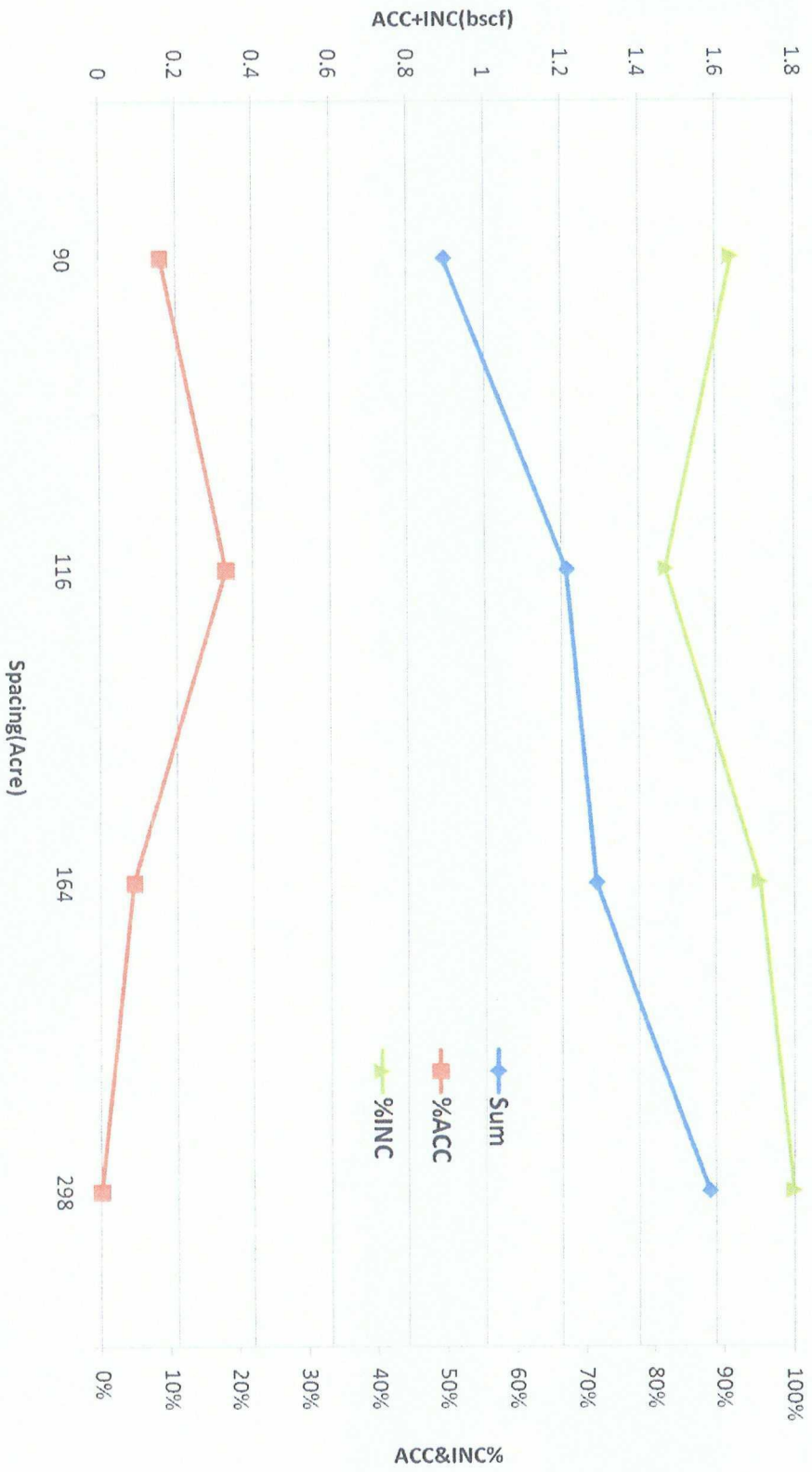
# Area 1,2,6,7 Extrapolation



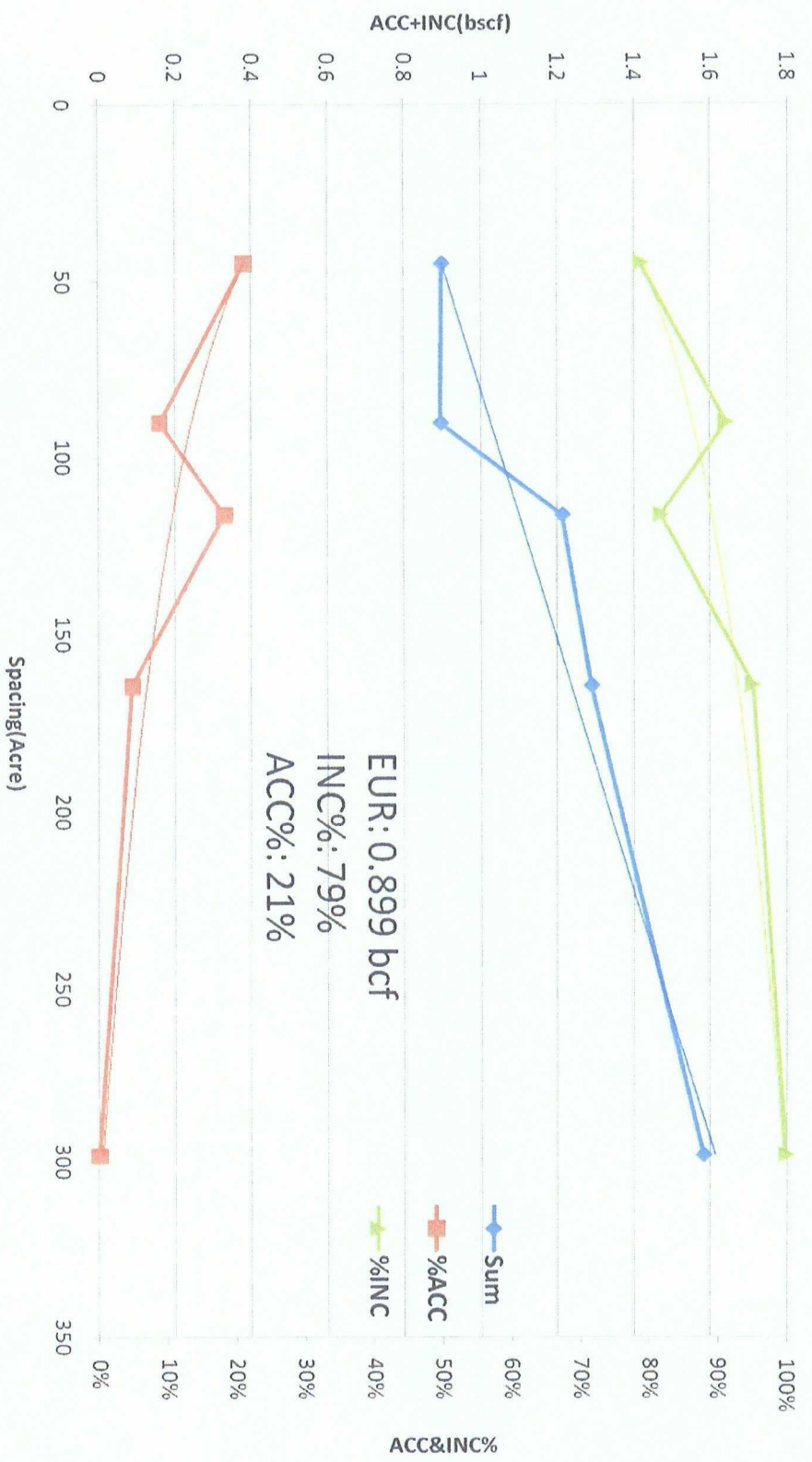




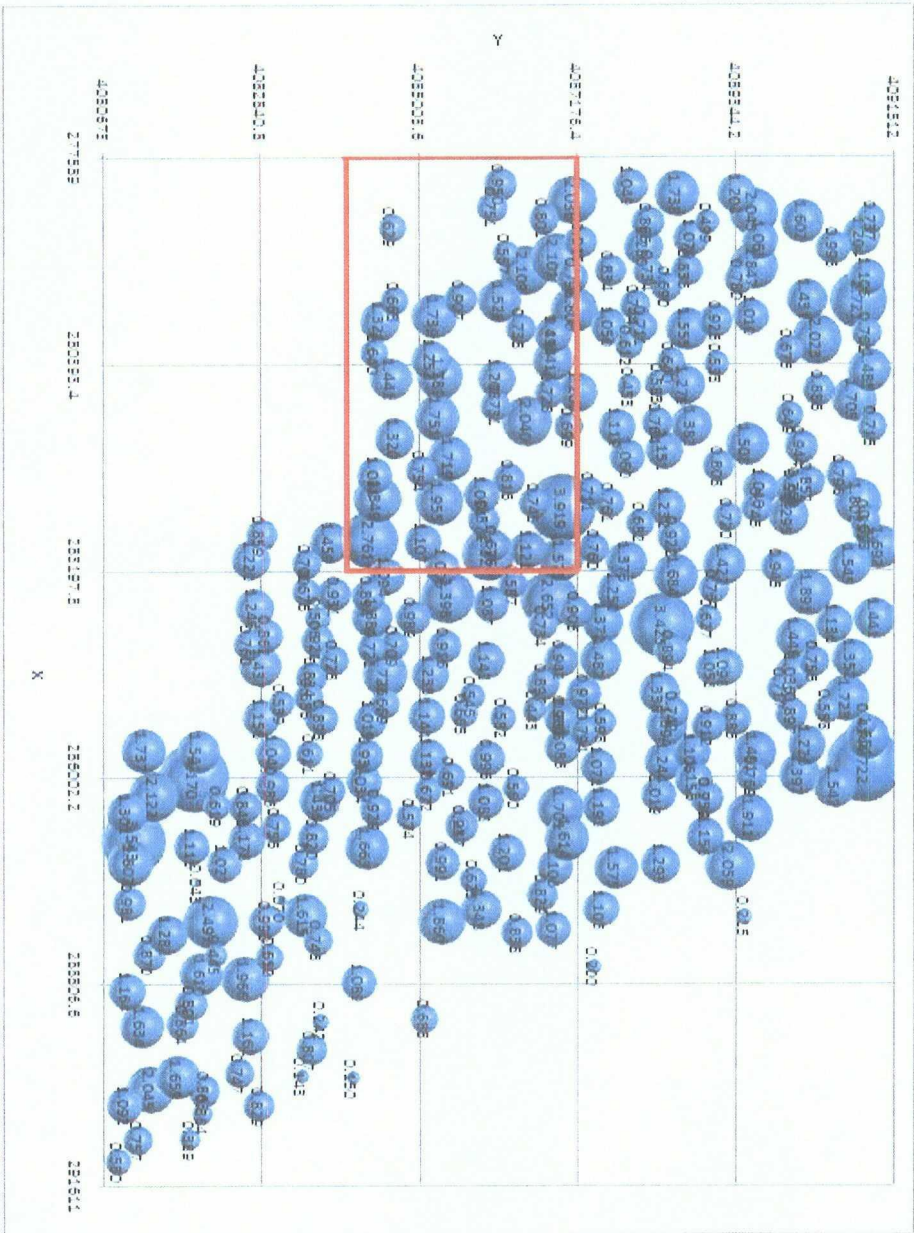
# Area 3,4,8,9 ACC&INC



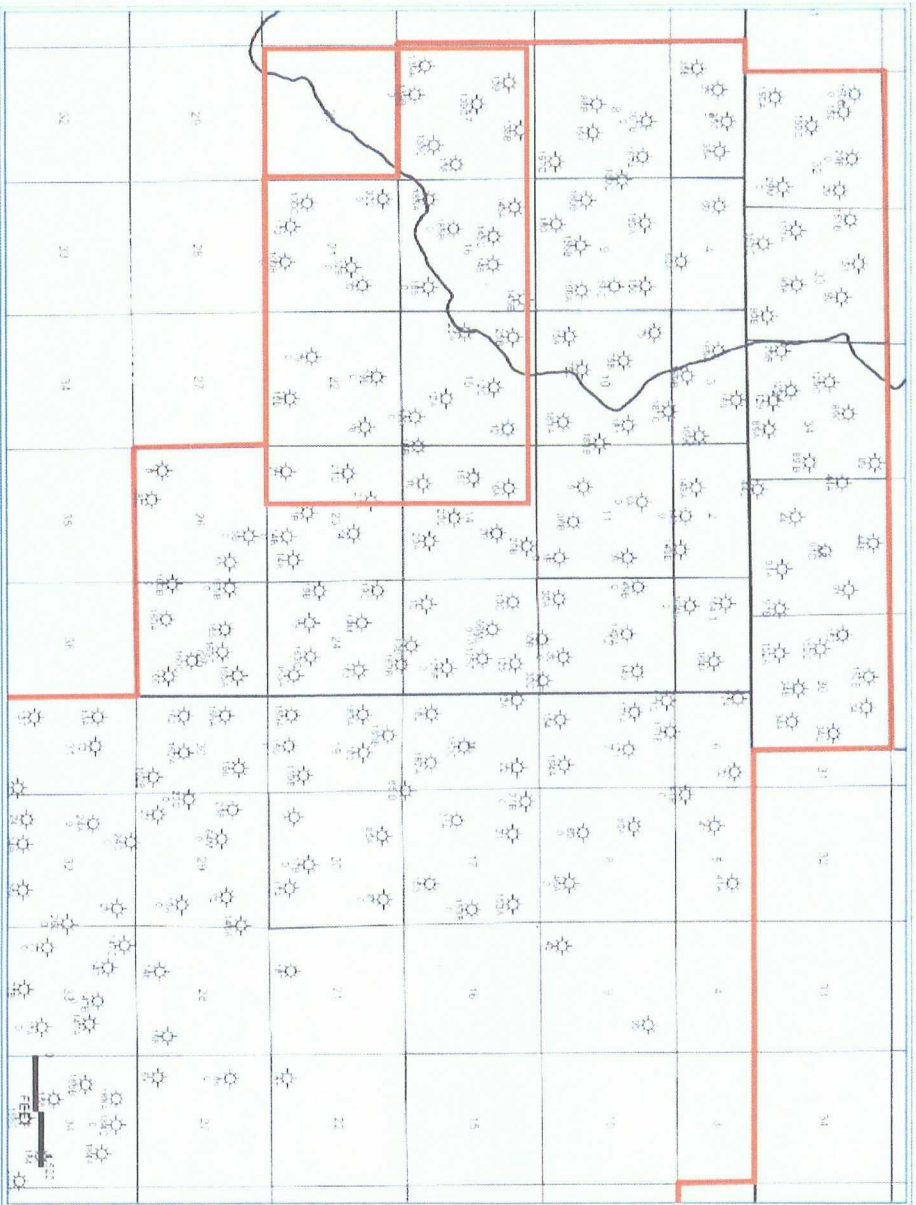
# Area 3,4,8,9 Extrapolation



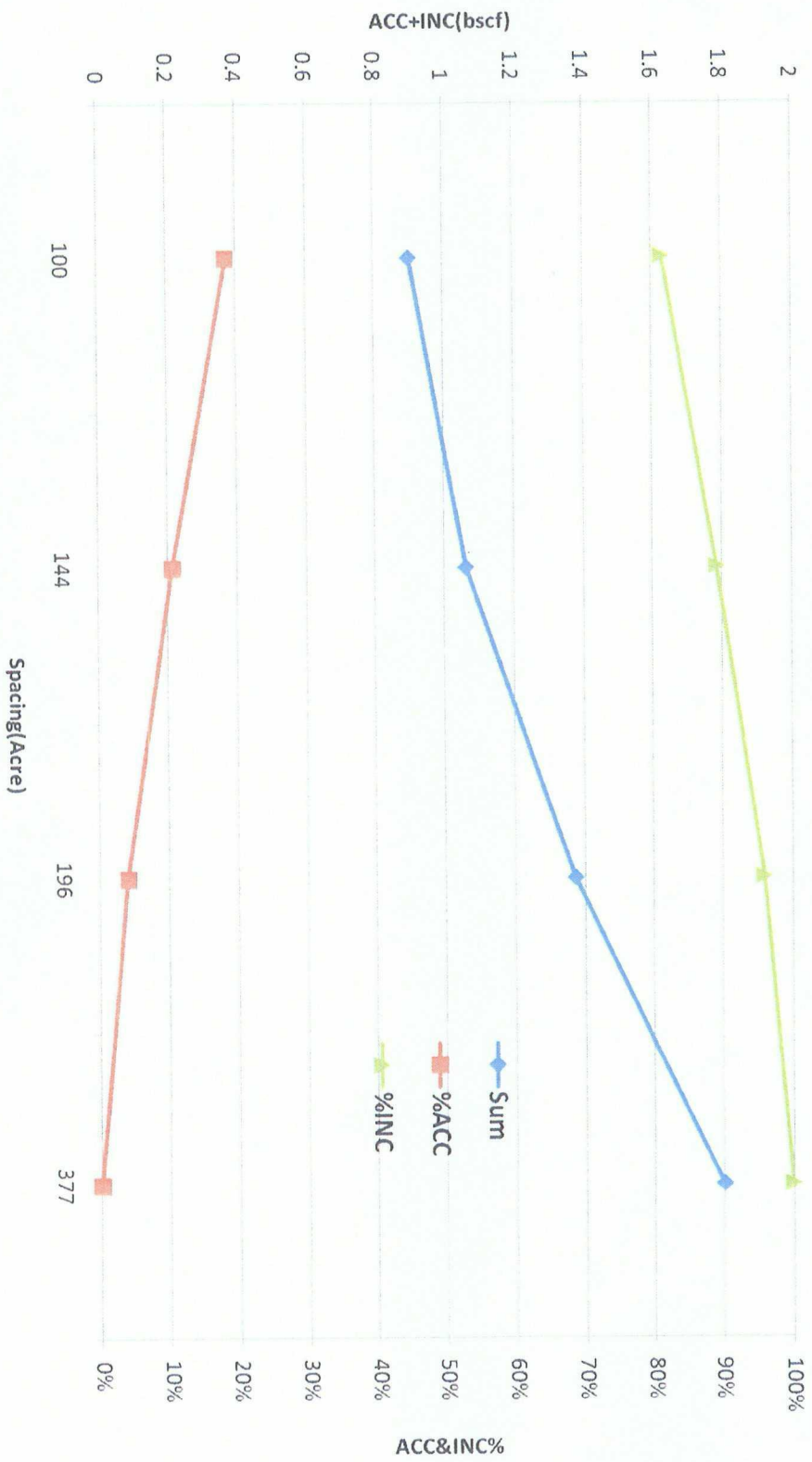
# Area 11,12,16,17



# Area 11,12,16,17

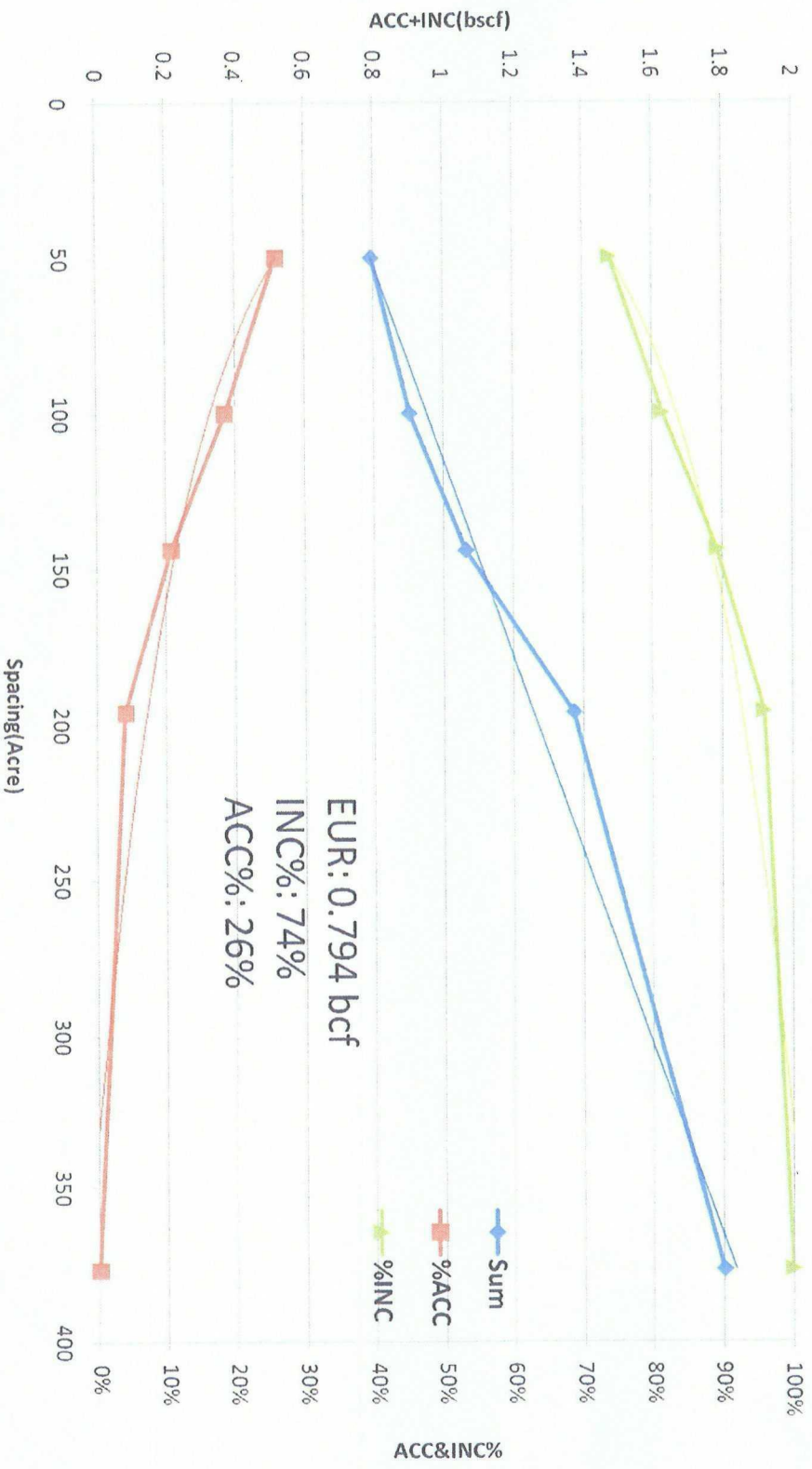


# Area 11,12,16,17 ACC&INC

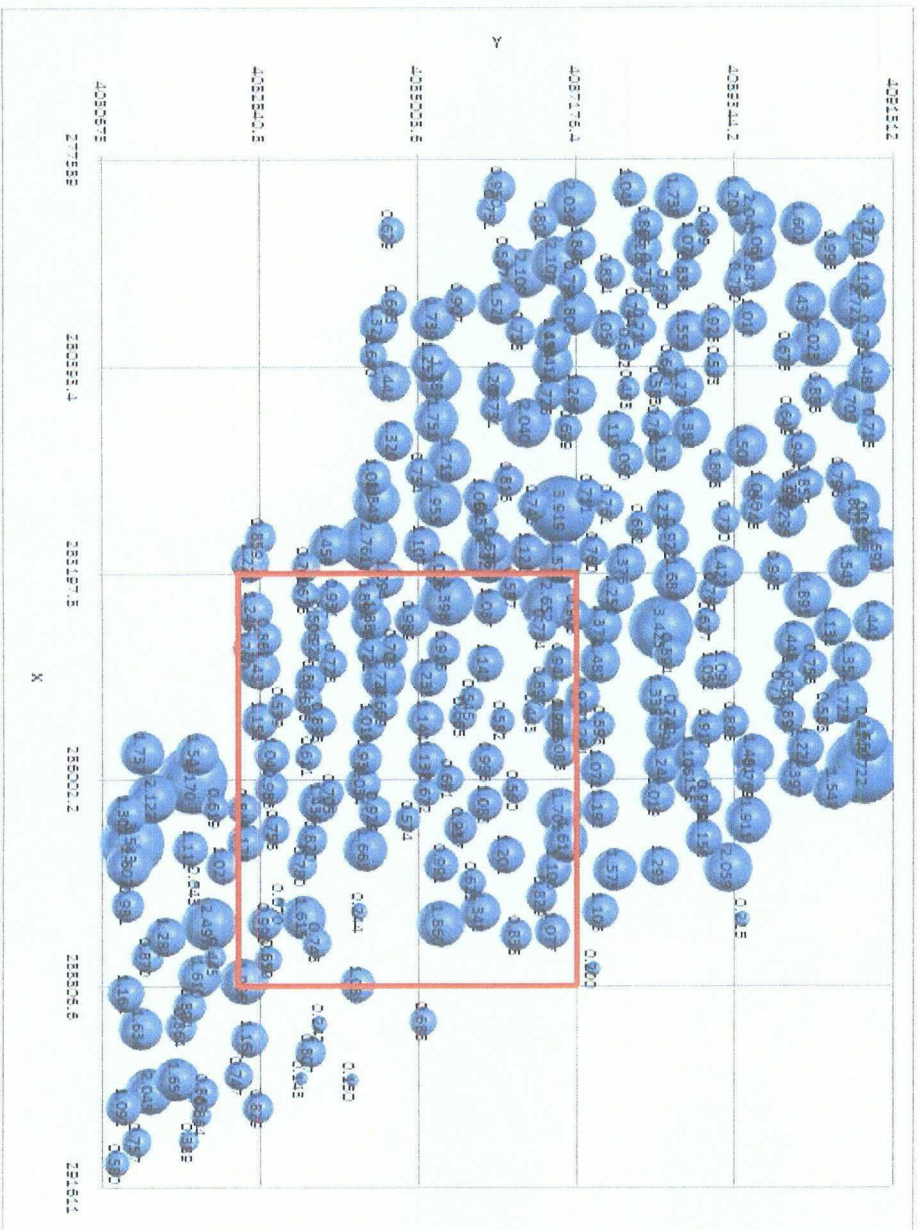




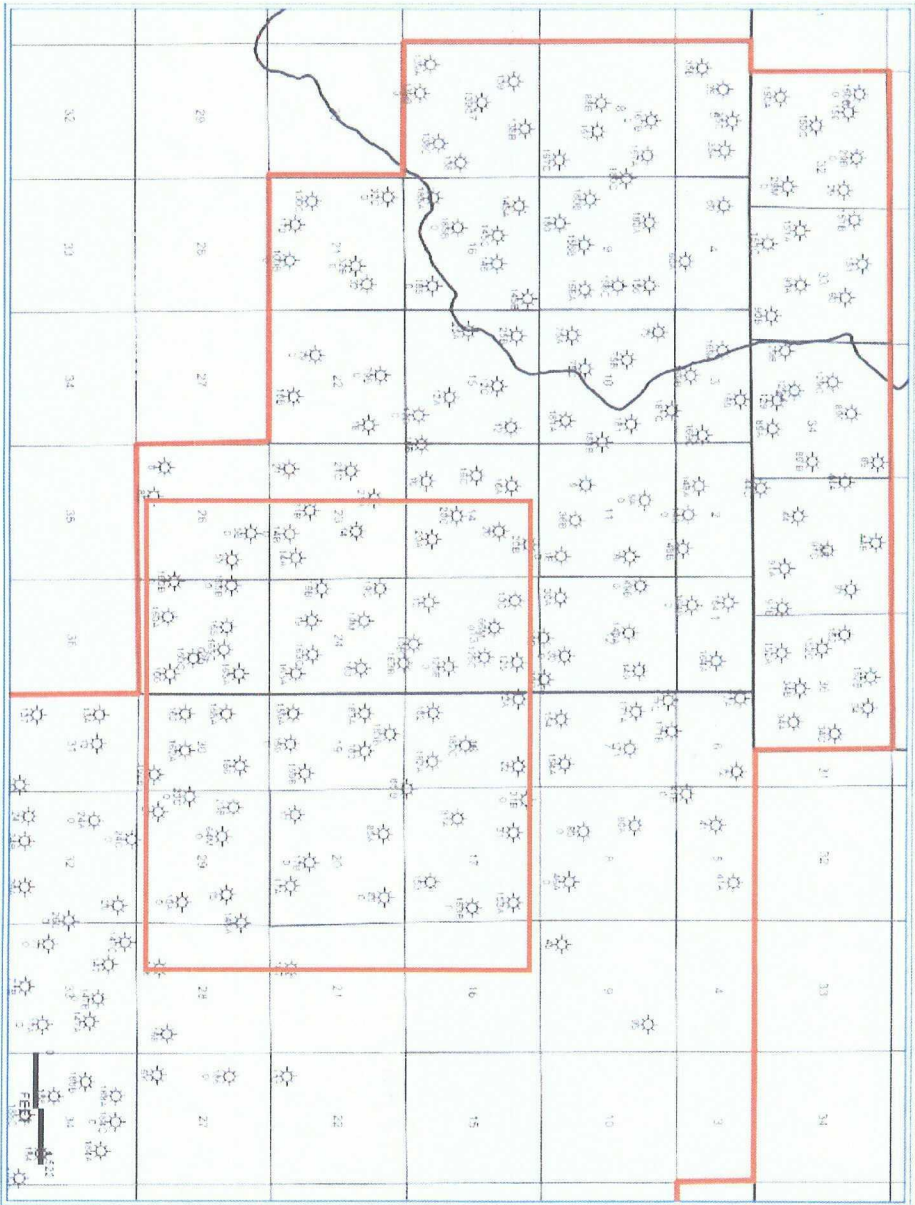
# Area 11,12,16,17 Extrapolation



# Area 13,14,18,19

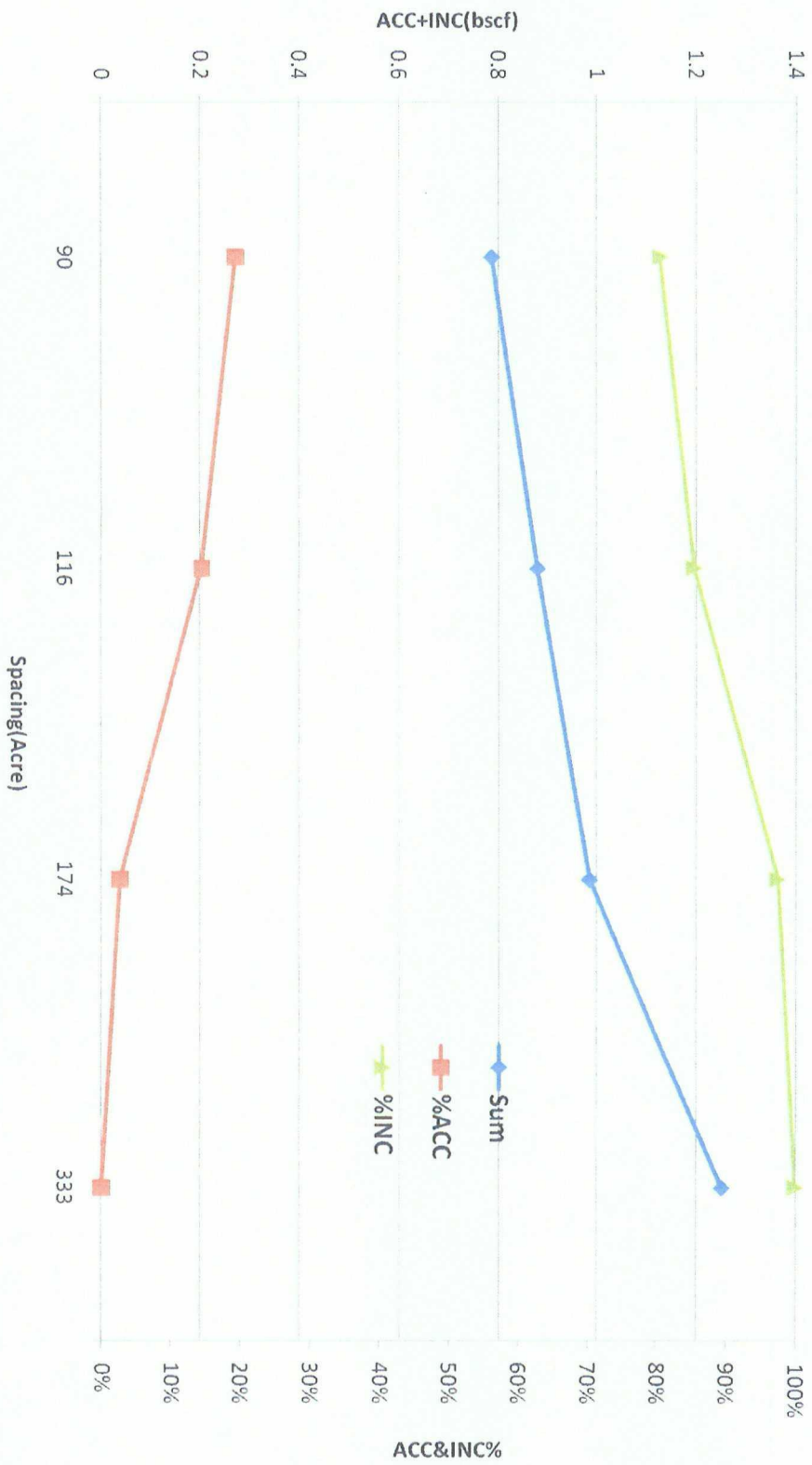


# Area 13

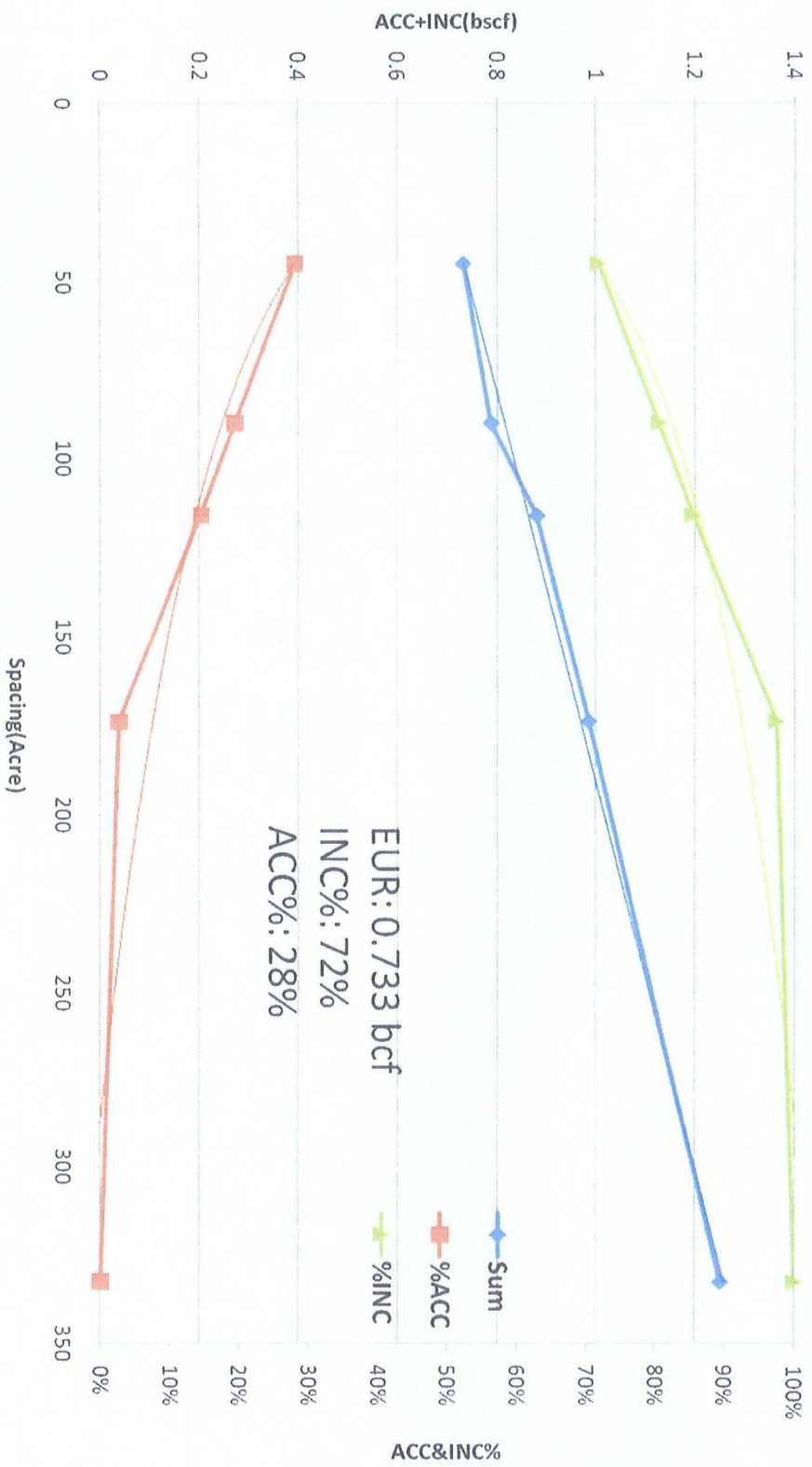


# Area 13,14,18,19

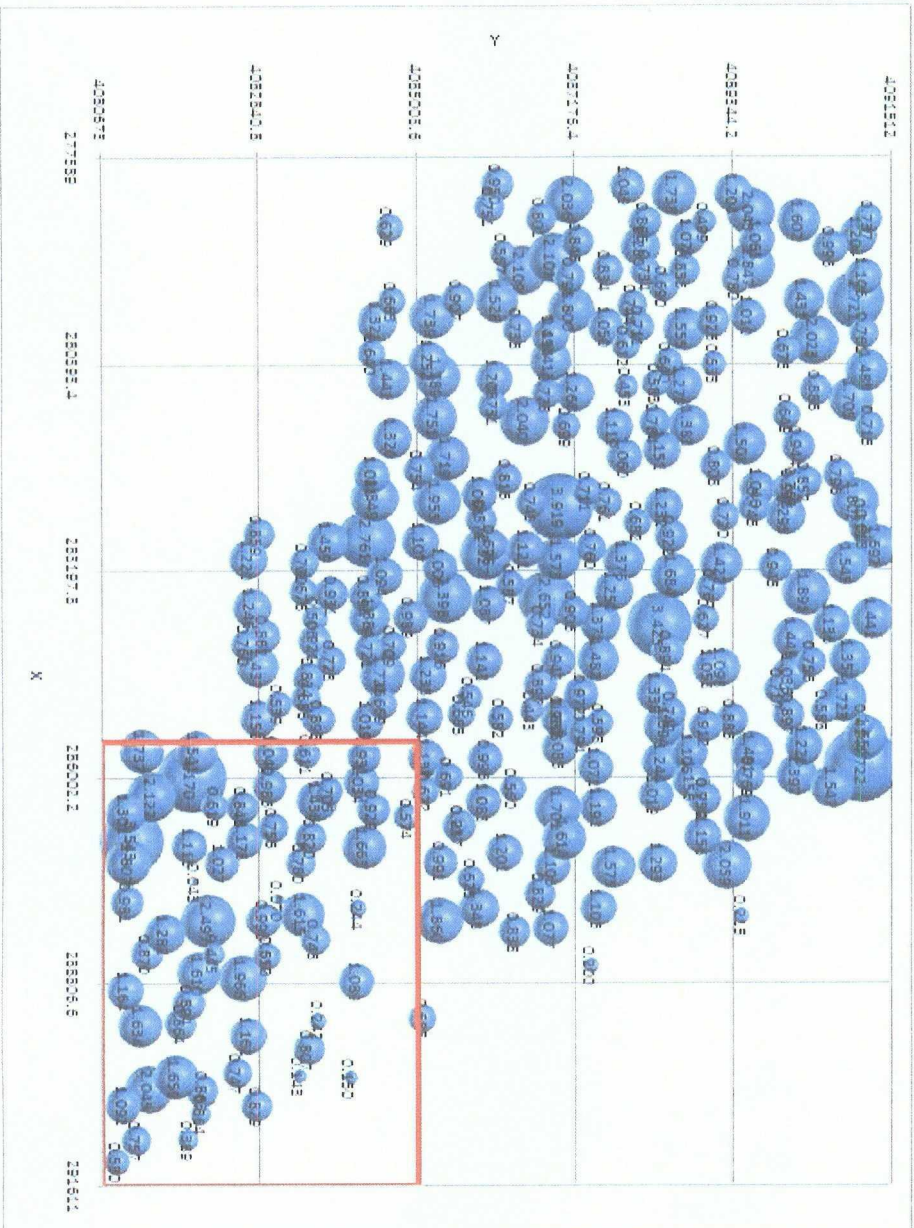
## ACC&INC



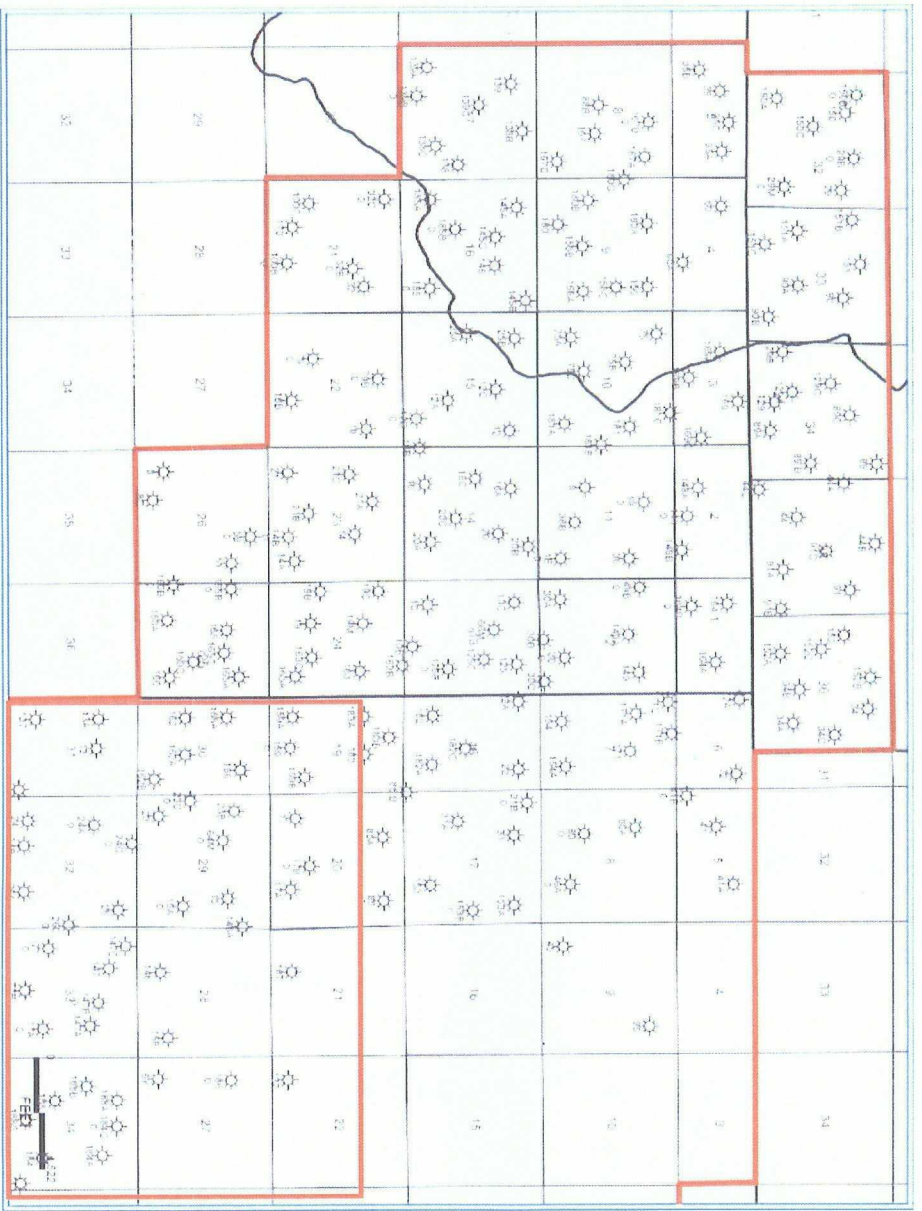
# Area 13,14,18,19 Extrapolation



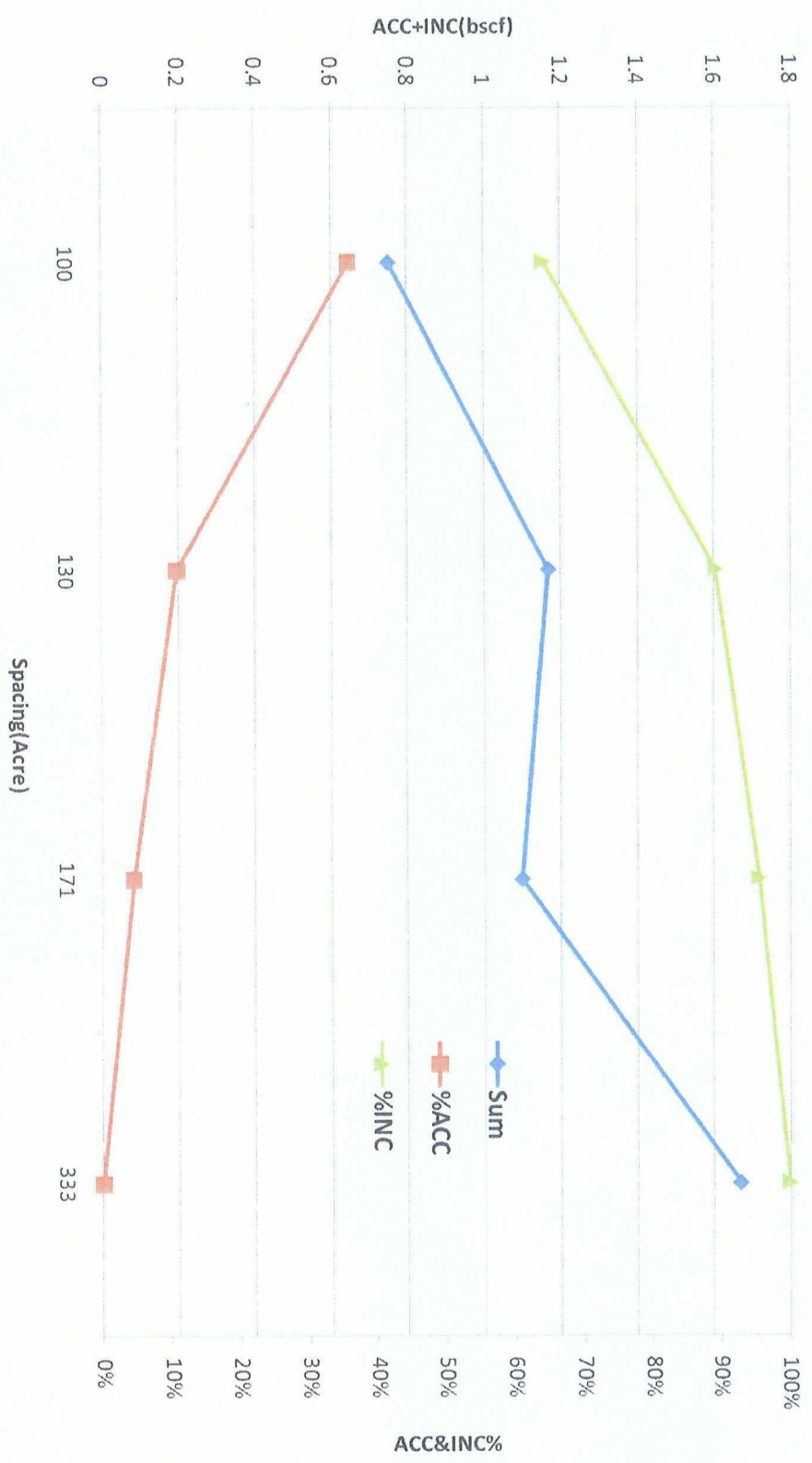
# Area 19,20,24,25



# Area 19,20,24,25



# Area 19,20,24,25 ACC&INC





# Area 19,20,24,25 Extrapolation

