STRATUM: Corporate Case Study

AI-Guided Drilling with Stratum SATS

August, 2022

STRATUM AI

STUDY CASE
GOLD DEPOSIT

Intrusion-related gold deposit in **northern Kazakhstan**

THE DEPOSIT

- Consists of ~150k meters of drillhole assays, ~40k blasthole assays, ~40k other assays
- Deposit is extremely high nugget with frequent jumps from 0 to 10g/T+ between adjacent assays

STUDY CASE
GOLD DEPOSIT

Intrusion-related gold deposit in **northern Kazakhstan**

PROBLEM

Data is extremely high nugget, sometimes 0g/T occurs in HG zone, sometimes 5g/T in W zone.

OBJECTIVE

Sort real nuggets from HG anomalies

OUTCOME

A more accurate resource model that can predict more in-situ value with greater confidence.

SOLUTION

AI outperforms Kriging by creating an error-tolerant model that can properly leverage the 230k high nugget assays present at the deposit

STUDY CASE
GOLD DEPOSIT

Intrusion-related gold deposit in **northern Kazakhstan**

MAIN OBJECTIVE

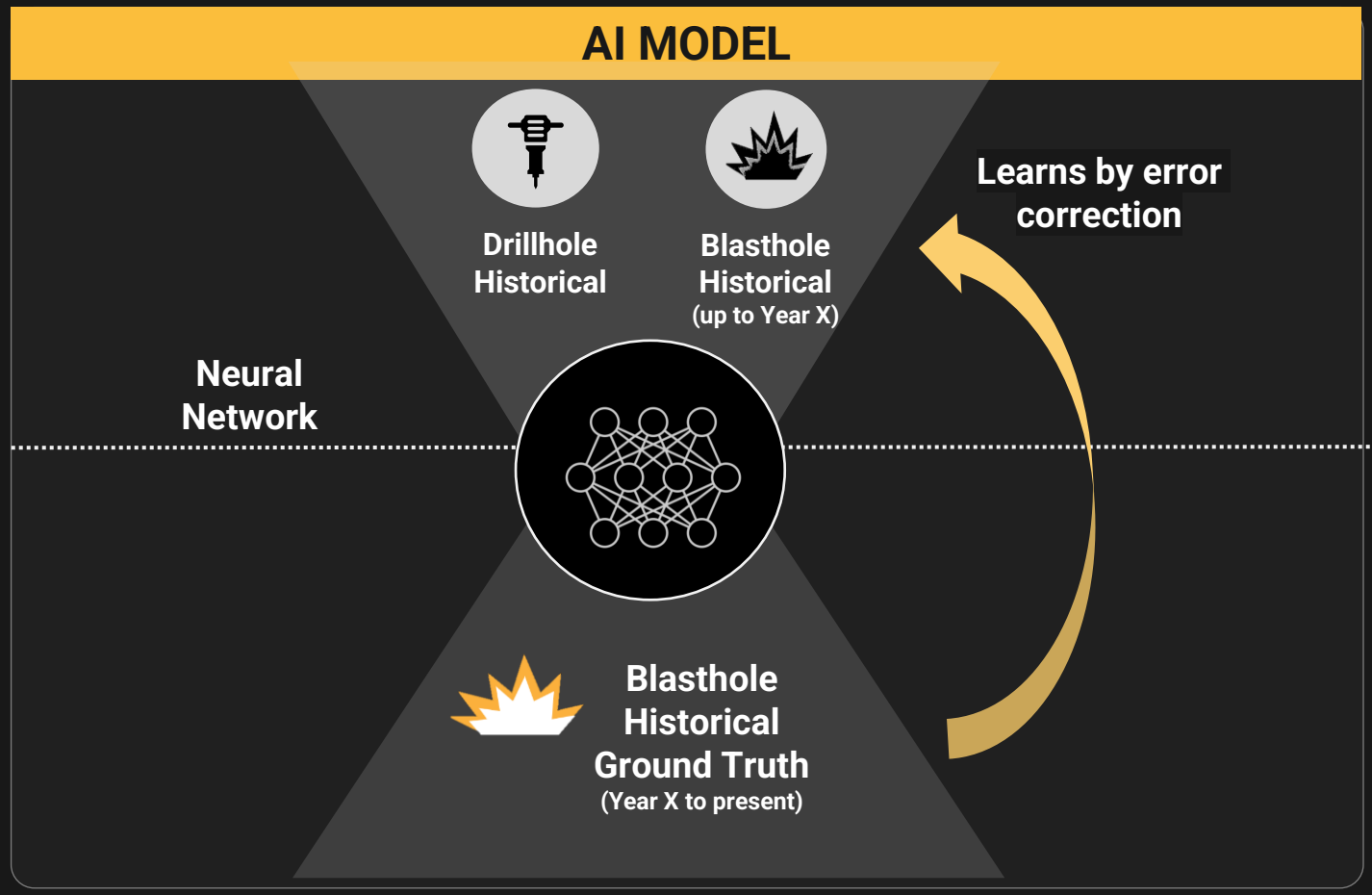
Leverage Stratum's SATS AI technology trained on high-nugget assays to create a more accurate gold model to predict more in-situ value with greater confidence.

VALUE PREPOSITION

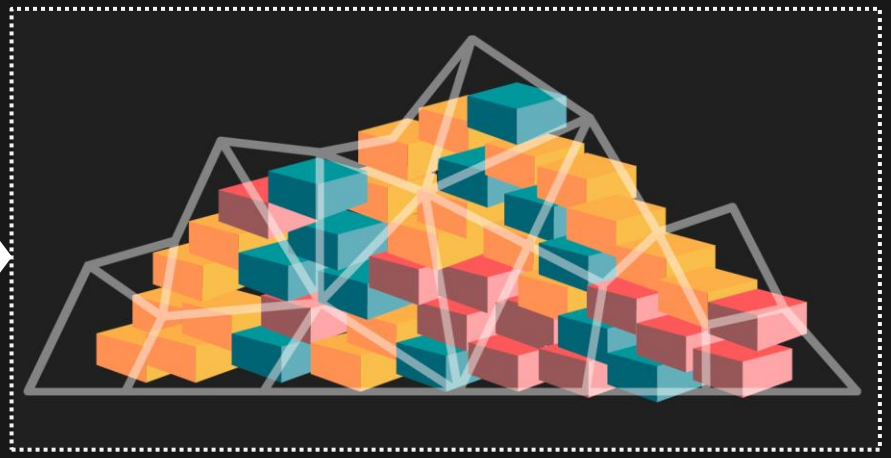
- Improve realized mine plan NPV by better sorting between ore/waste at long-term resource model level.
- Increase in-situ resource by identifying missed mineralization.
- Validate in-situ resource faster and cheaper (less drilling) with AI-guided drilling.

STRATUM MODELS
AI MODEL STRUCTURE

BASELINE AI MODEL - EXAMPLE



Prediction: Block Model



The model uses **Deep Learning** to learn geological patterns that cause grade variation and generates a block model for any element in the deposit.

AI-Guided Drilling Results

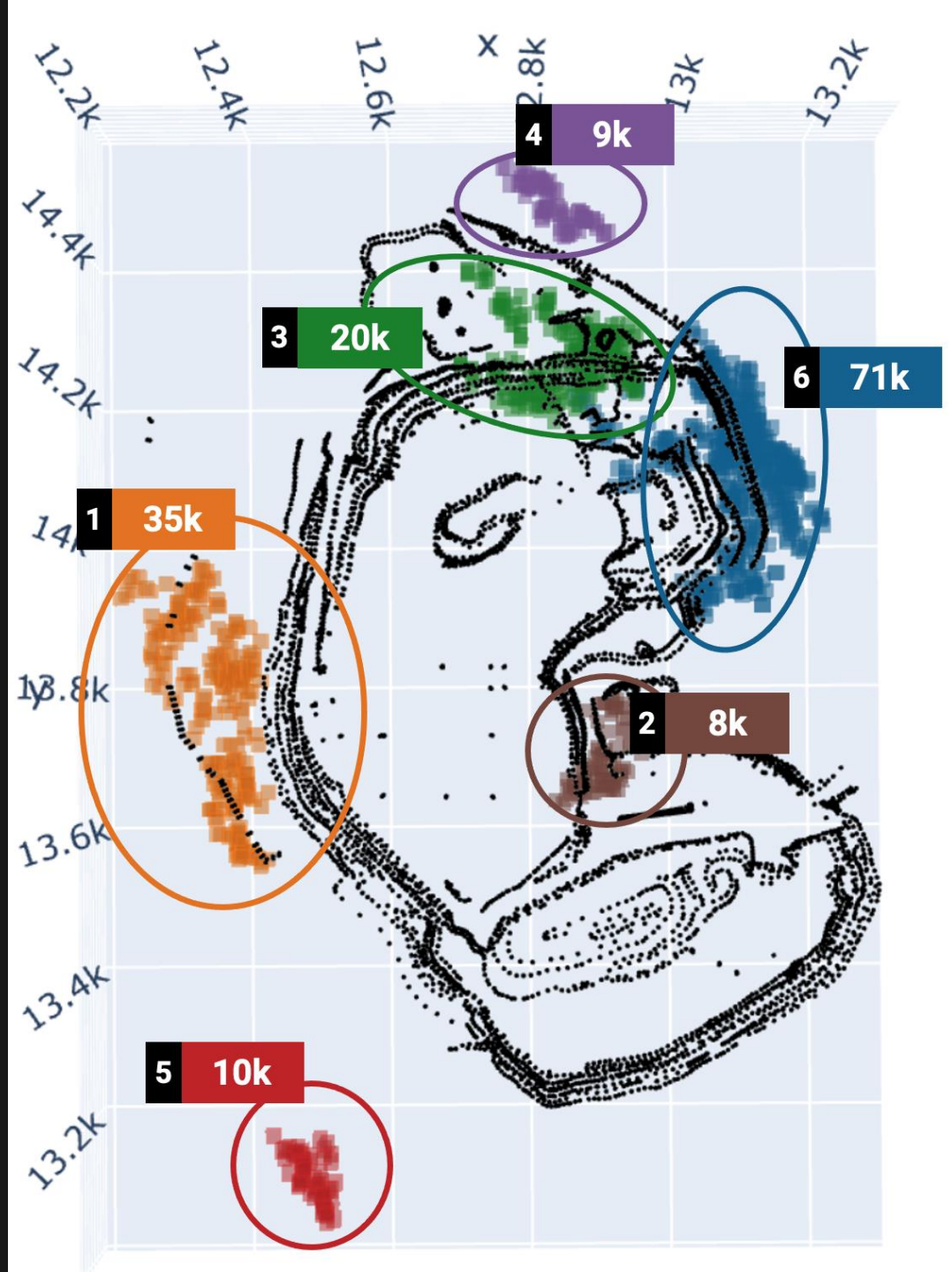
AI GUIDED DRILLING
UNIQUE MINERALIZATION

Unique mineralization: areas where AI predicted gold above the cut-off grade while kriging does not

AI Identify places of **unique mineralization** that are at least 20 meters away from known mineralization

6 Clusters were identified with a total of **153k** ounces

2.4 km were drilled across **24** holes



AI GUIDED DRILLING
UNIQUE MINERALIZATION

DRILLHOLE EVALUATION CRITERIA

1 **Drillhole Hit**
Drillhole contains intersection where the average grade along 5m is above the cut-off grade (0.3g/T)

*Over the past 2 years of drilling, **63%** drillholes "hit" mineralizatio*

2 **Drillhole Max**
Highest assayed grade

*Over the past 2 years of drilling, the median highest assayed grade is **2.0g/T**.*

3 **Verified Mineralization**
Given successful results, how many ounces have been verified with measured classification confidence by the drilling

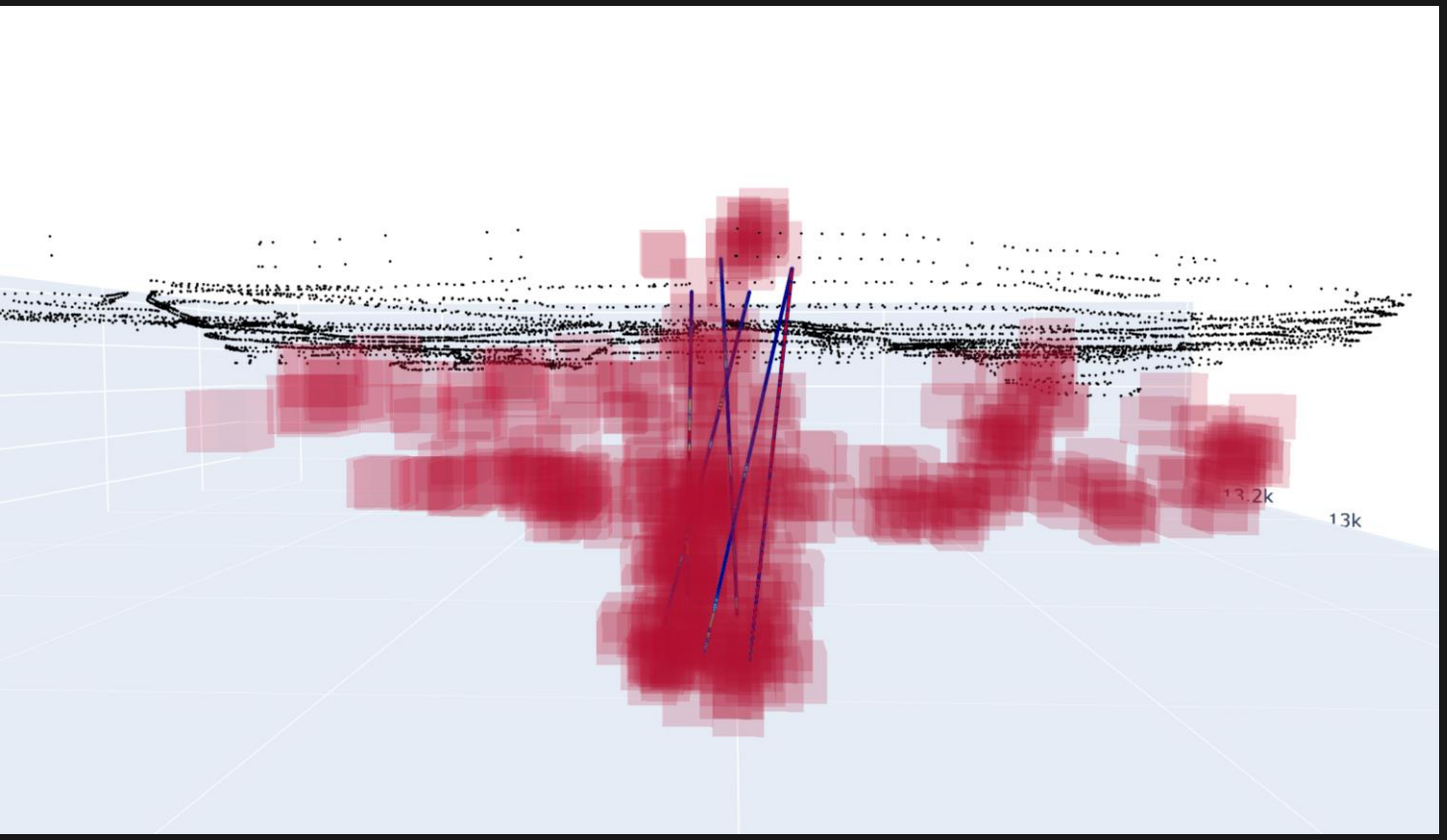
AI GUIDED DRILLING
UNIQUE MINERALIZATION

RESULTS OVERVIEW

	AI MODEL	BASELINE (2020)
DRILLHOLE HIT	**83%** intersected mineralization with average drillhole length of **99m**	**63%** intersected mineralization with average drillhole length of **102m**
DRILLHOLE MAX GRADE	Median Max Grade/Drillhole is **3.7g/T**	Median Max Grade/Drillhole is **2.0g/T**
NUGGET FREQUENCY	**5.7 in 1000** samples are above 10g/T	**2.0 in 1000** samples are above 10g/T
RESOURCE VERIFIED	**37.5k** ounces verified to measured across **5** clusters	

AI GUIDED DRILLING
CLUSTER OVERVIEW

CLUSTER 1



Predicted Mineralization:	Total: **35k** ounces (0.64g/T) Targeted: **11k** ounces (0.82g/T)
Resource Classification:	Indicated + Inferred
DH001:	1 hit (42-50 m)
DH002:	3 hits (0-10, 20-25,30-35 m)
DH003:	4 hits (6-11, 32-40, 45-52, 56-65 m)
DH004:	No hits
DH005:	1 hit (0-6 m)

9k ounces verified with measured confidence. Mineralization occurs 0-60m from surface.

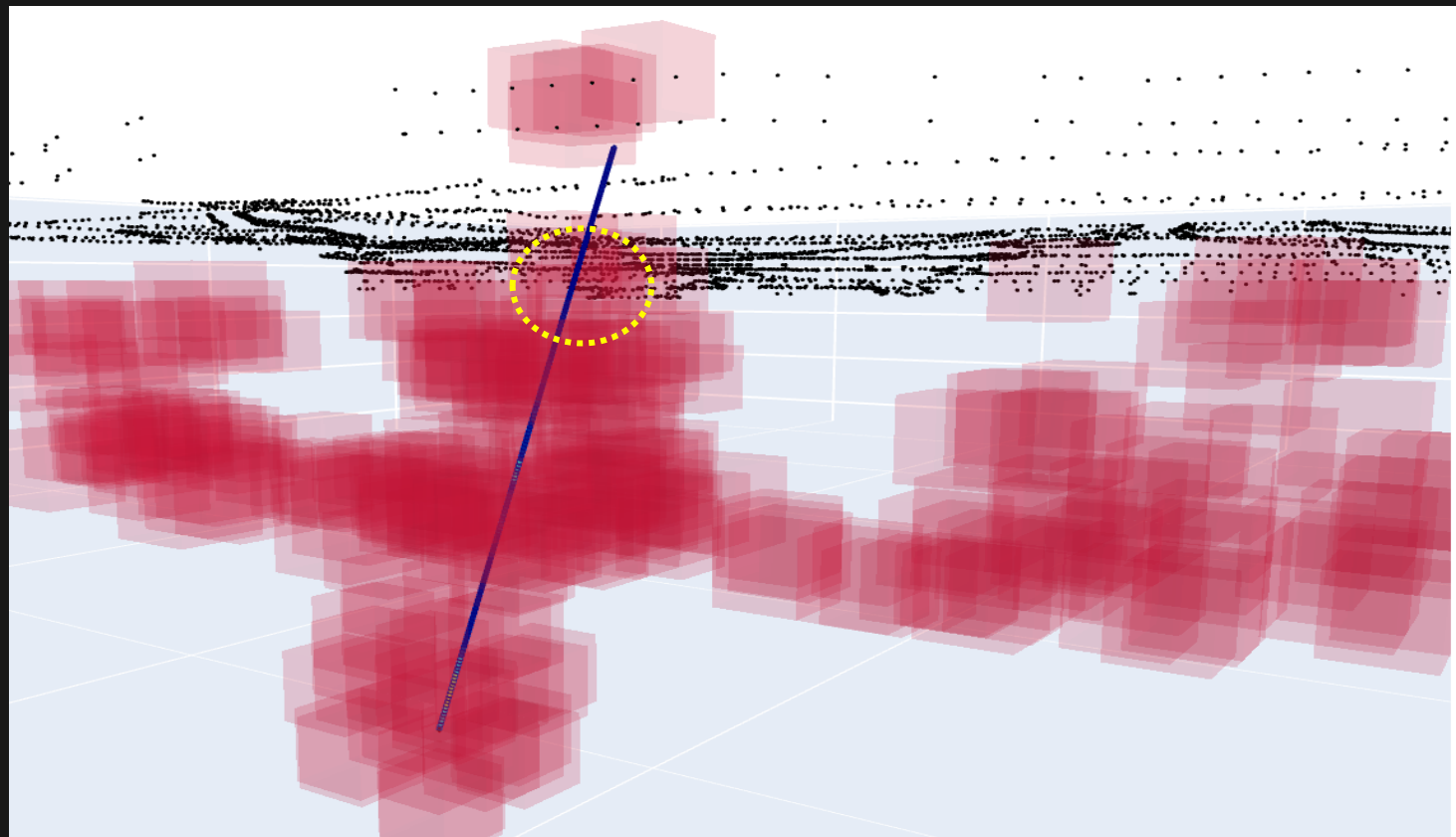
AI GUIDED DRILLING

DH001

CLUSTER 1

DH001: 1 hit at 42-50m, max grade 2.7g/T at 46m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
42.2	42.7	0.5	95.67		1.1
42.7	43.7	1	96.37		0.027
43.7	44.7	1	96.67		0.242
44.7	45.7	1	96.67		0.047
45.7	46.3	0.6	96.5		0.691
46.3	47.15	0.85	96.33		2.66
47.15	47.9	0.75	96.33		0.38
47.9	48.9	1	96.33		0.043
48.9	49.9	1	98.13		0.131



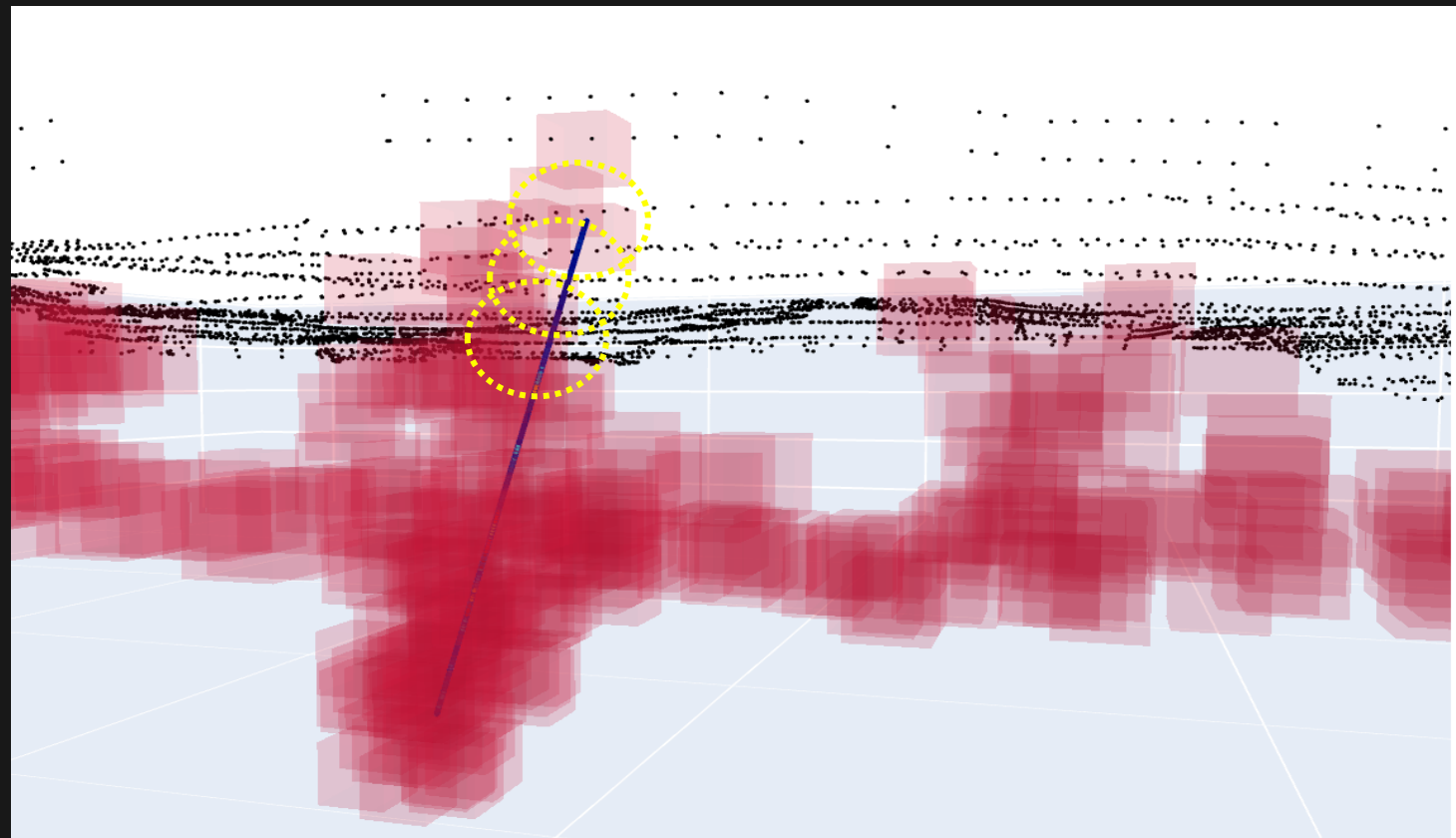
AI GUIDED DRILLING

DH002

CLUSTER 1

DH002: 3 hits at 0-10m, 20-25m, 30-35m, max grade 12.1g/T at 3m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
0	1	1	80		0.116
1	2	1	83.33		0.238
2	3.1	1.1	83.33		12.1
3.1	4	0.9	83.33		0.258
4	5	1	95		0.035
5	6	1	95		0.048
6	7	1	95		0.143
7	7.9	0.9	96.67		0.099
7.9	9	1.1	96.67		0.803
9	10	1	96.67		0.015



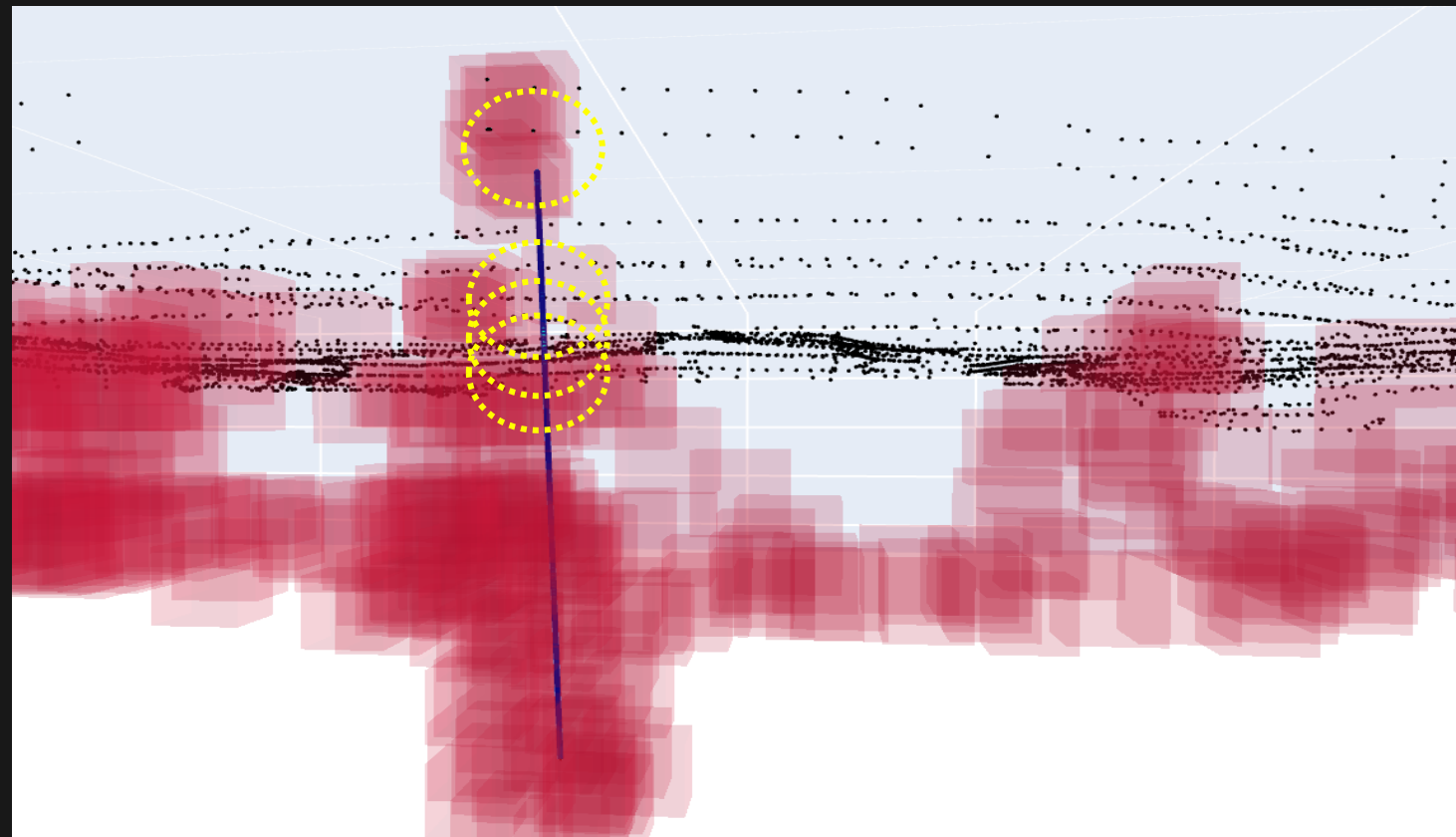
AI GUIDED DRILLING

DH003

CLUSTER 1

DH003: 4 hits at 6-11m, 32-40m, 45-52m, 56-65m max grade 72.6g/T at 51m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
45.9	46.5	0.6	97.56	2.62	1.865
46.5	47.2	0.7	97.67	2.33	5.41
47.2	48.1	0.9	97.67	3.35	0.019
48.1	49	0.9	97.67	2.93	0.039
49	49.7	0.7	99.33	2.67	0.035
49.7	50.4	0.7	99.33	2.73	4.29
50.4	50.8	0.4	99.33	1.64	72.6
50.8	51.7	0.9	99.33	3.2	5.07
51.7	52.7	1	98.63	3.83	0.034
52.7	53.7	1	98.33	4.07	0.129
53.7	54.7	1	98.33	4.05	0.204
54.7	55.9	1.2	97.58	4.77	0.044
55.9	56.7	0.8	97.33	3.35	0.644
56.7	57.5	0.8	97.33	2.97	0.095
57.5	58.2	0.7	97.43	2.74	0.125
58.2	58.5	0.3	97.67	1.4	7.22
58.5	59.5	1	97.67	3.75	0.471
59.5	60.5	1	97.67	3.94	0.08
60.5	61.6	1.1	98.58	4.57	0.086
61.6	62.6	1	99.33	4.07	0.026



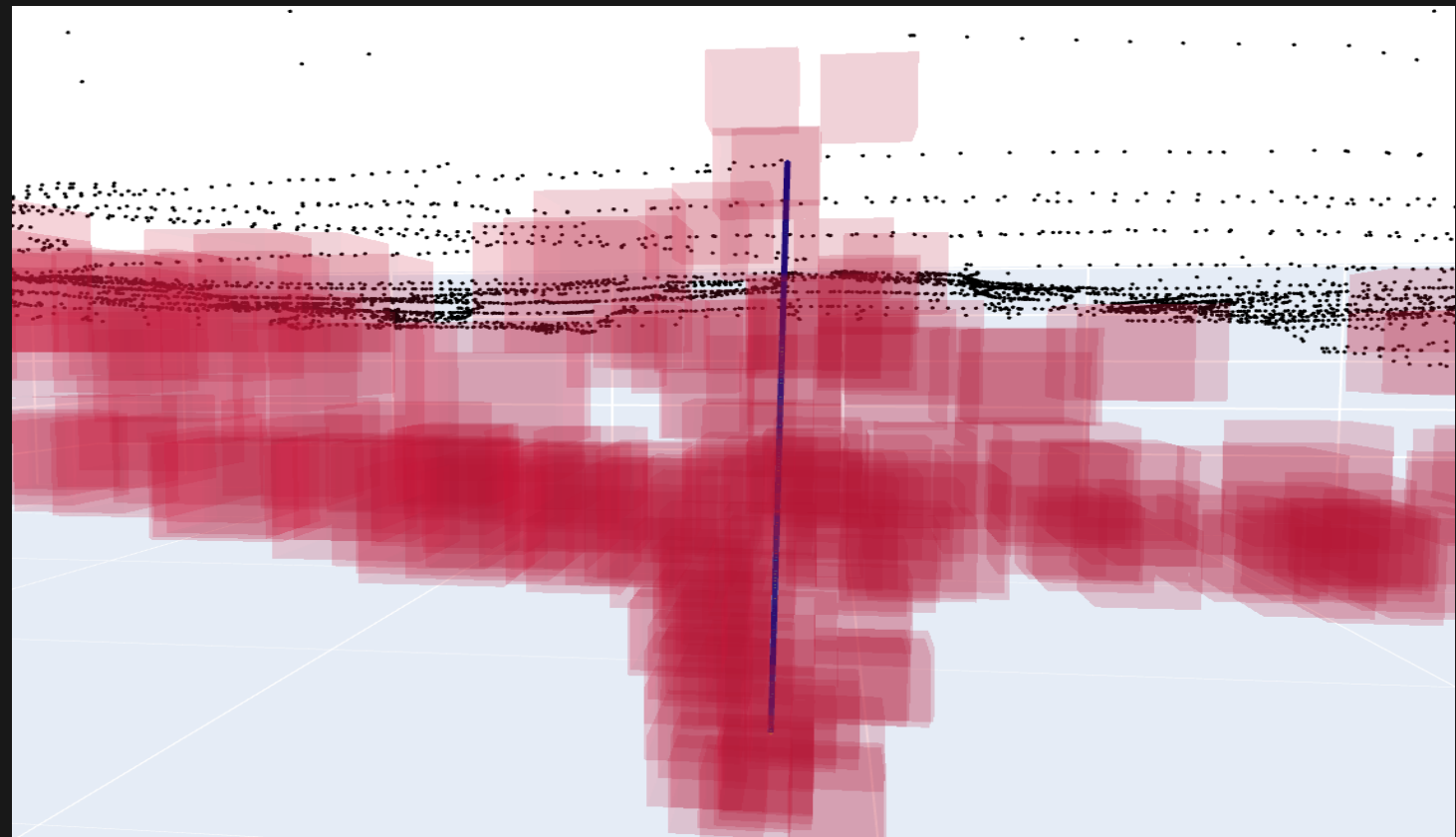
AI GUIDED DRILLING

DH004

CLUSTER 1

DH004: No hits, max grade 0.7g/T at 43m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
42.1	43.15	1.05	99.62		0.701
43.15	44.2	1.05	99.33		0.076
44.2	45.2	1	99.33		0.02
45.2	46	0.8	99.33		0.023
46	47	1	99.33		0.022
47	48	1	99.33		0.013
48	49	1	99.33		0.008
49	49.7	0.7	99		0.117



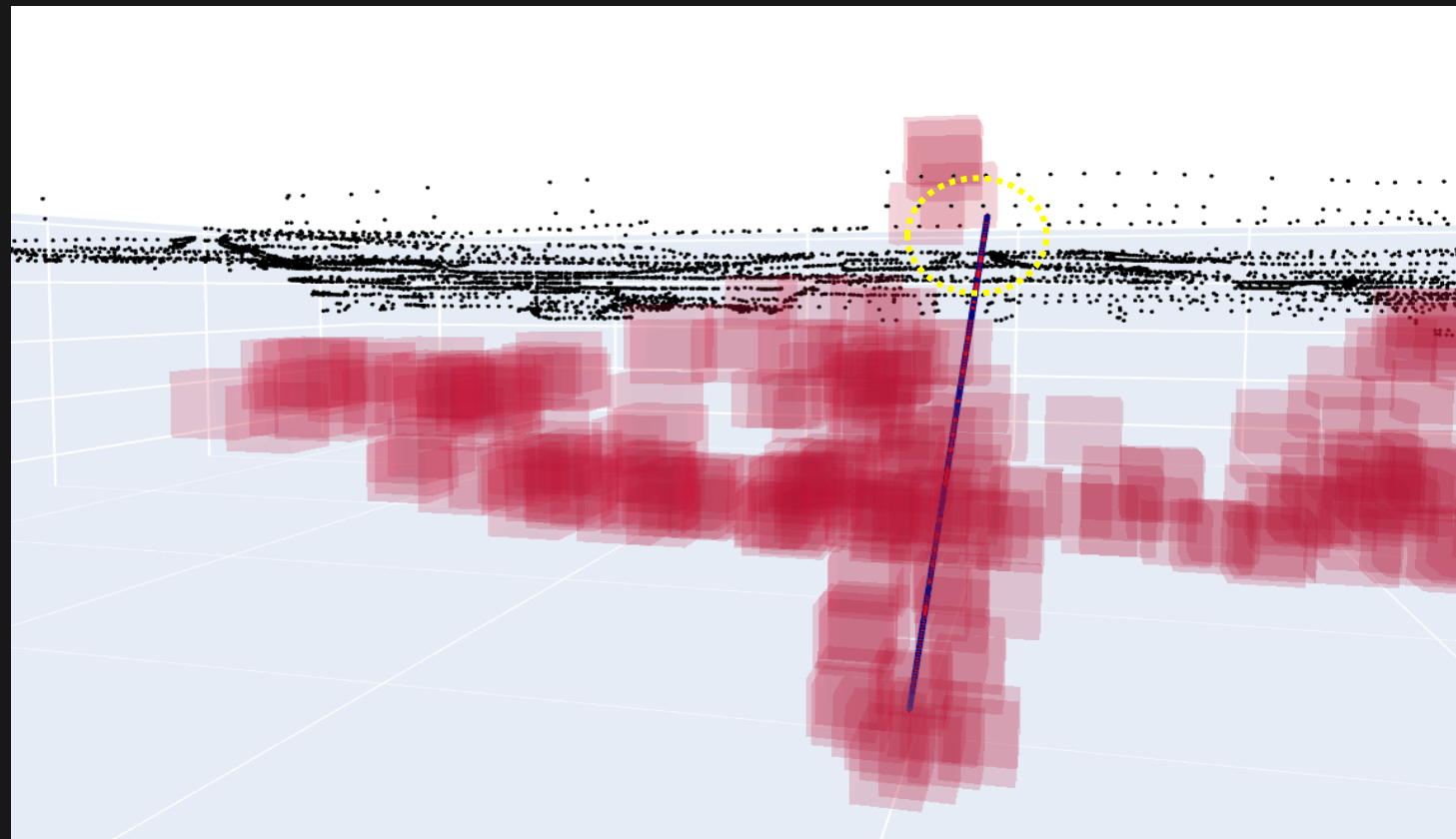
AI GUIDED DRILLING

DH005

CLUSTER 1

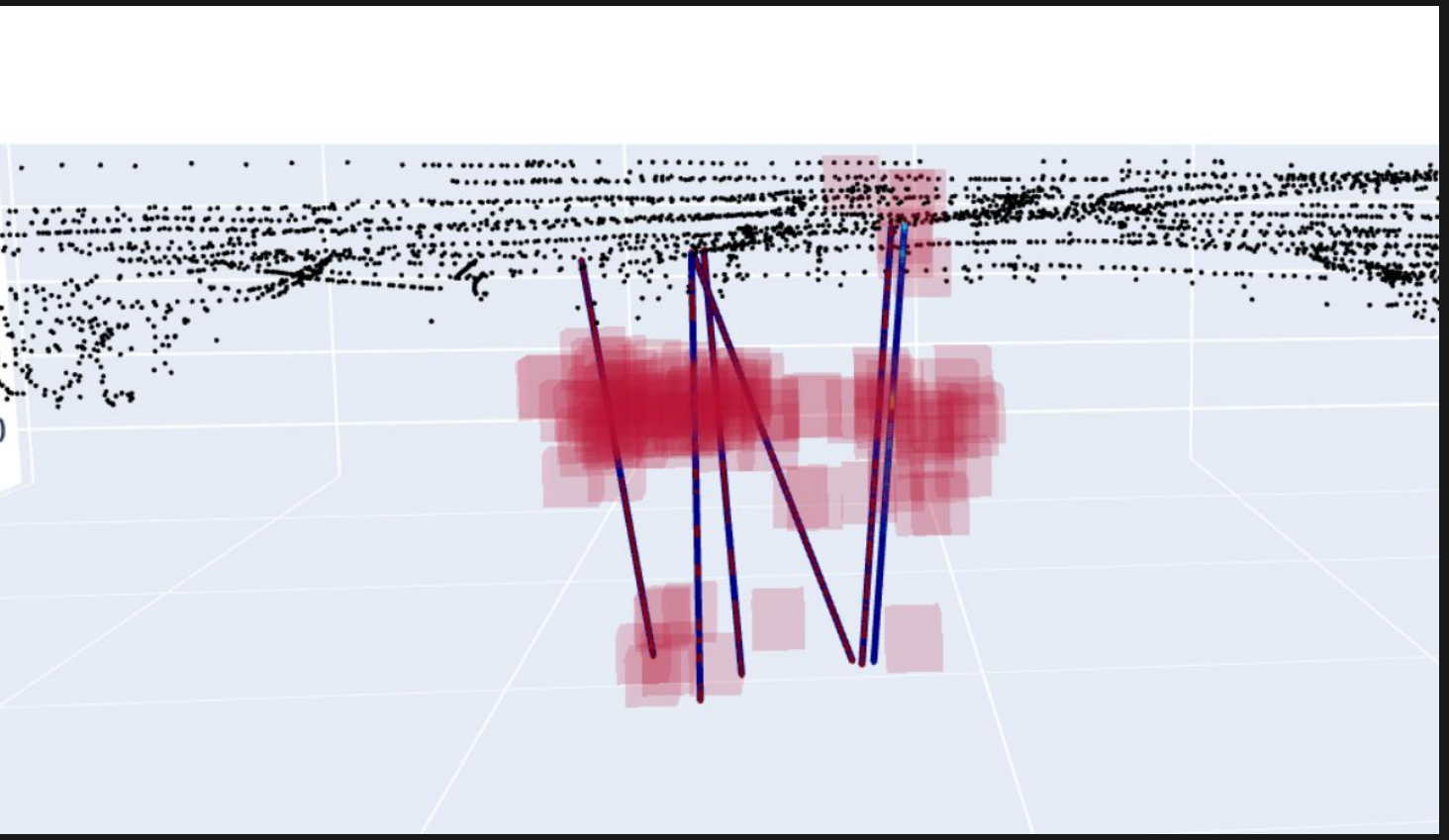
DH005: 1 hit at 0-6m, max grade 11.3g/T at 3m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
0	1	1	94		0.077
1	2	1	99.67		0.149
2	3	1	99.67		0.034
3	4	1	99.67		11.25
4	4.7	0.7	99.67		0.094
4.7	5.4	0.7	99.67		0.118
5.4	6.3	0.9	99.67		0.038
6.3	7.3	1	98.97		0.027
7.3	8.3	1	97.33		0.043
8.3	9.3	1	97.33		0.014
9.3	10.3	1	97.93		0.045
10.3	11.3	1	99.33		0.014
11.3	12.3	1	99.33		0.045
12.3	13.3	1	99.23		0.011
13.3	14.3	1	99		0.033
14.3	15.4	1.1	99		0.207



AI GUIDED DRILLING
CLUSTER OVERVIEW

CLUSTER 2



Predicted Mineralization:	Total: **8k** ounces (0.57g/T) Targeted: **6k** ounces (0.59g/T)
Resource Classification:	Indicated
DH006:	3 hits (2-7, 57-62, 63-75 m)
DH007:	2 hits (40-45, 62-67 m)
DH008:	1 hit (60-65 m)
DH009:	1 hit (4-9 m)
DH010:	1 hit (61-69 m)
DH011:	2 hits (2-9, 58-71 m)

3.5k ounces verified with measured confidence.

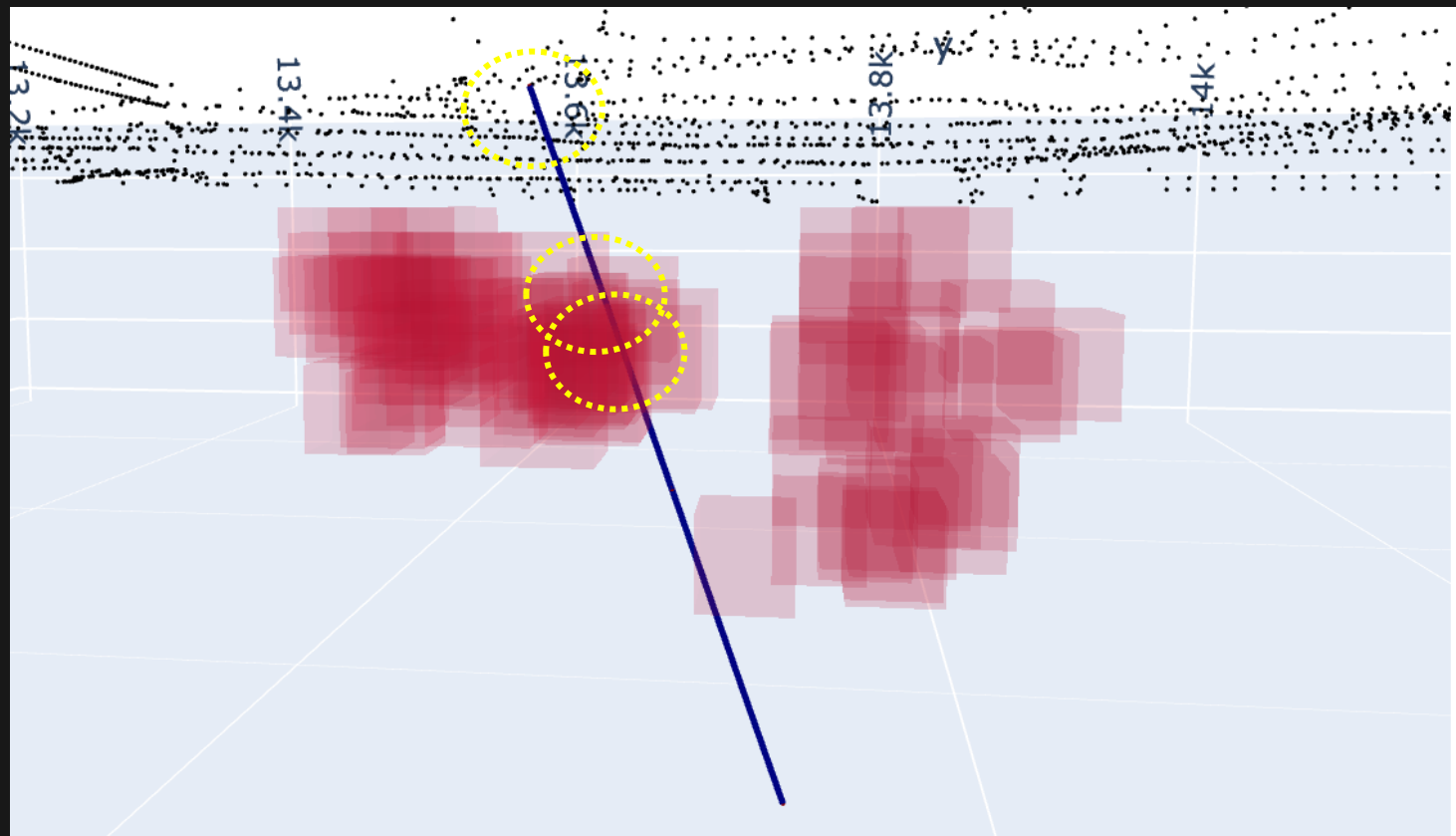
AI GUIDED DRILLING

DH006

CLUSTER 2

DH006: 3 hits at 2-7m, 57-62m, 63-75m max grade 1.8g/T at 5m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
57.4	58.3	0.9	97	4.36	0.71
58.3	59	0.7	97.67	3.7	0.019
59	59.3	0.3	97.67	1.16	0.779
59.3	59.75	0.45	97.67	1.98	0.019
59.75	60.6	0.85	97.67	3.07	0.4
60.6	61.5	0.9	95.26	4.05	0.062
61.5	62	0.5	93.33	2.59	0.594
62	62.5	0.5	93.33	1.41	0.012
62.5	62.8	0.3	93.33	1.17	0.212
62.8	63.4	0.6	93.33	2.76	0.046
63.4	63.7	0.3	93.33	1.53	0.81
63.7	64.1	0.4	93.75	1.44	1.16
64.1	64.7	0.6	95	2.17	1.155
64.7	65.7	1	95	4.68	0.076
65.7	66.6	0.9	95	3.6	0.132
66.6	67.6	1	94	4.14	1.035
67.6	68.6	1	93.33	4.17	0.007
68.6	69.3	0.7	93.33	2.83	0.023
69.3	70	0.7	93.33	2.63	0.0025
72	73	1	90	3.74	1.375



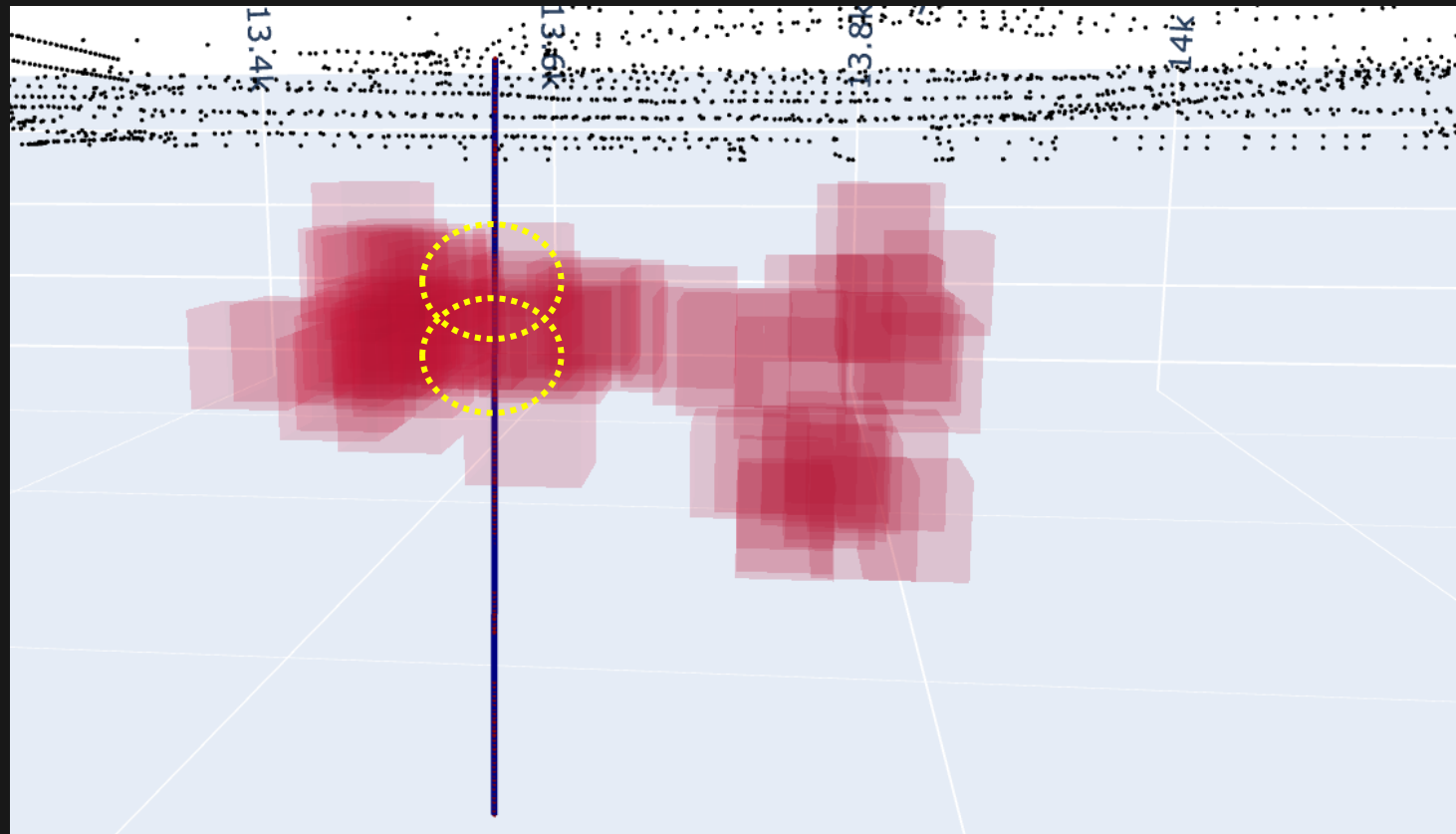
AI GUIDED DRILLING

DH007

CLUSTER 2

DH007: 2 hits at 40-45m, 62-67m, max grade 3.5g/T at 42m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
37.5	38	0.5	93.33	2.12	0.314
38	38.3	0.3	93.33	1.35	0.035
38.3	39.3	1	93.33	3.46	0.005
39.3	40.3	1	92.93	3.89	0.006
40.3	41.3	1	92	4.45	0.009
41.3	42.1	0.8	92	3.52	3.52
42.1	43.35	1.25	93.03	5.13	0.007
43.35	43.9	0.55	95.67	2.17	0.335



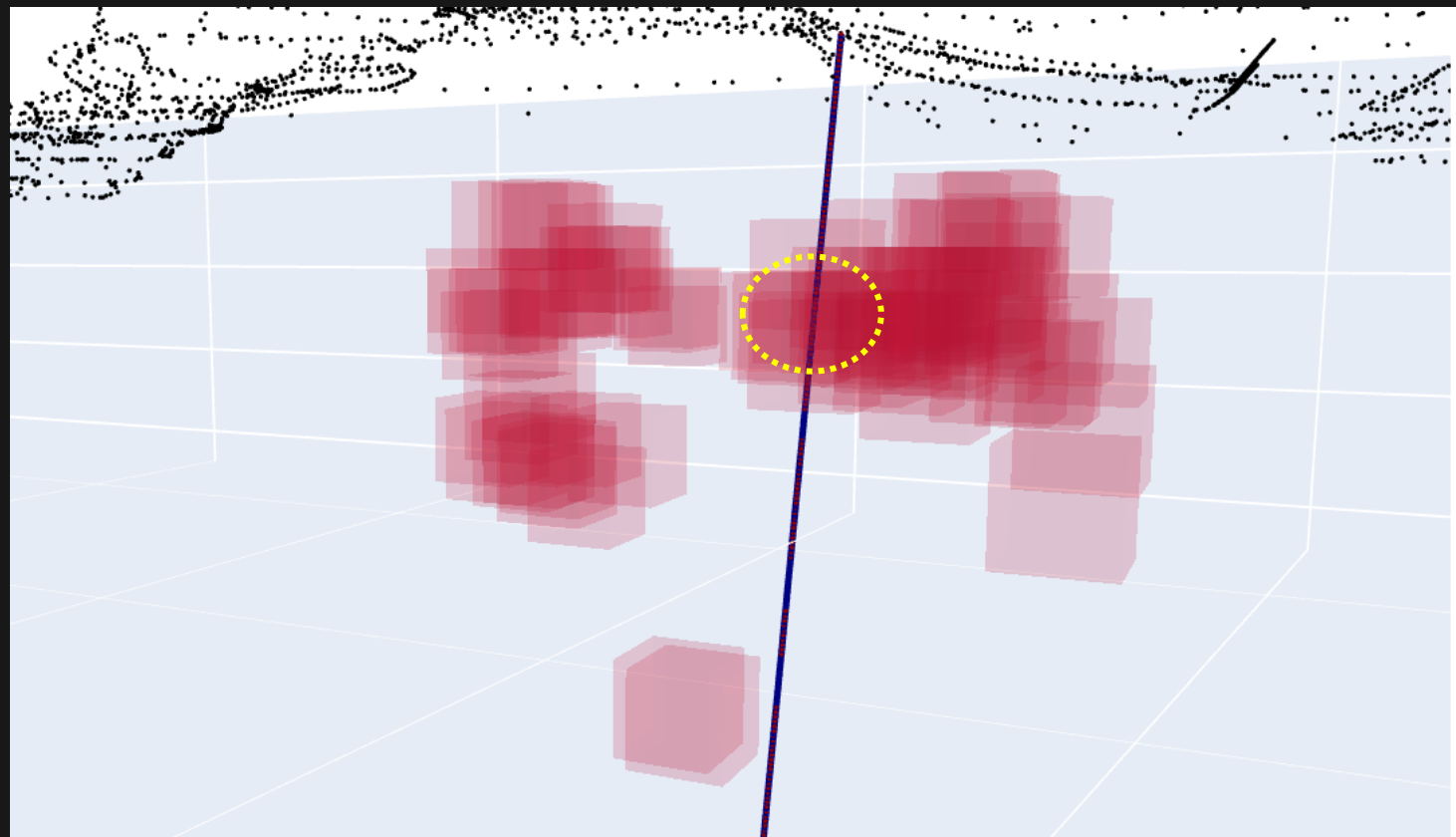
AI GUIDED DRILLING

DH008

CLUSTER 2

DH008: 1 hit at 60-65m, max grade 2.0g/T at 61m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
60.2	60.6	0.4	100	1.69	1.975
60.6	61	0.4	100	2.08	0.47
61	61.5	0.5	80	1.54	0.691
61.5	62.1	0.6	80	3	0.199
62.1	62.6	0.5	80	2.21	0.046
62.6	63.4	0.8	80	3.42	0.042
63.4	63.8	0.4	80	1.78	0.213
63.8	64.3	0.5	92	2.1	0.032
64.3	65.1	0.8	100	3.24	0.088



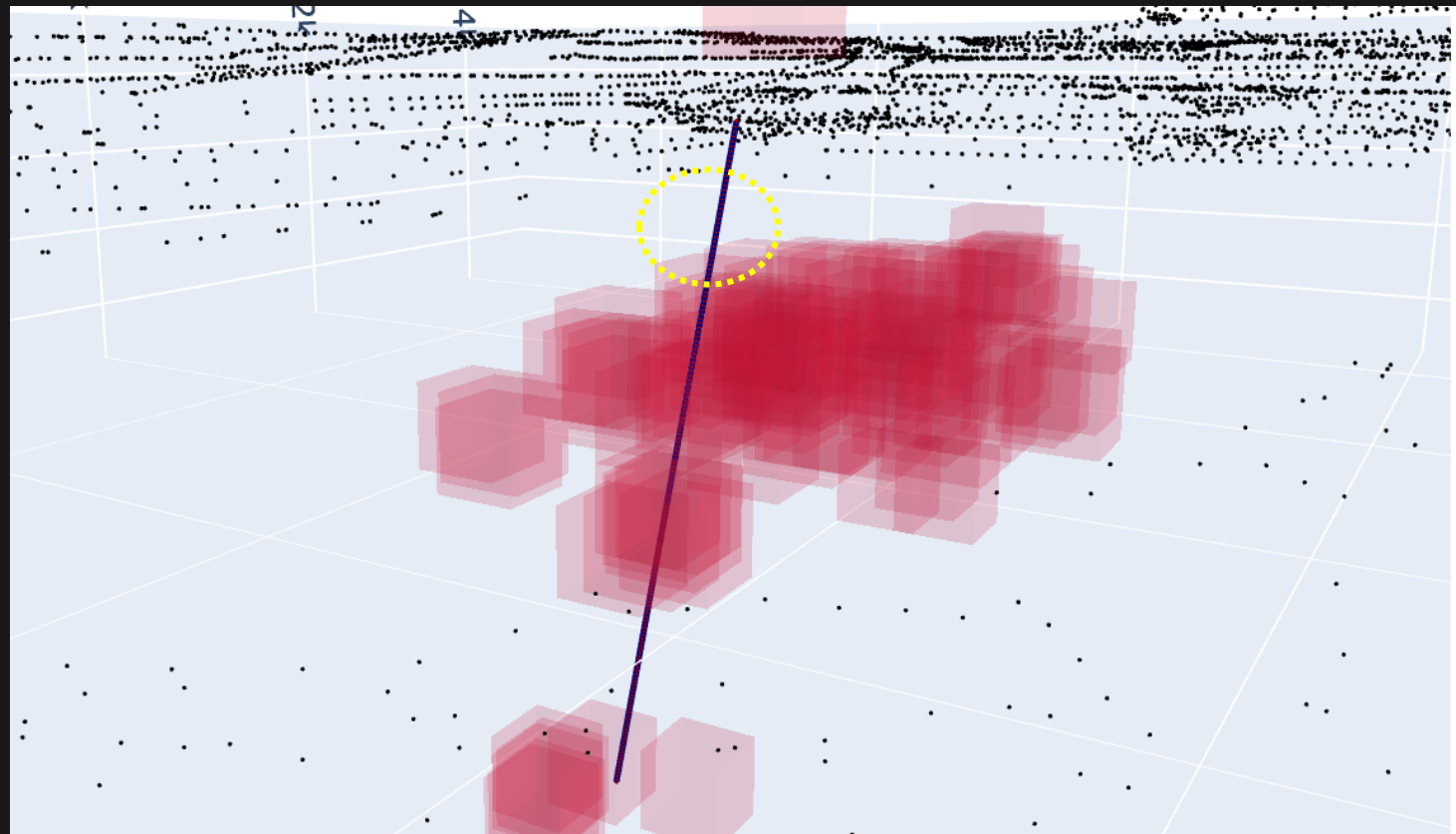
AI GUIDED DRILLING

DH009

CLUSTER 2

DH009: 1 hit at 4-9m, max grade 3.9g/T at 6m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
4	4.5	0.5	96.67	2.05	0.082
4.5	5.1	0.6	96.67	2.18	0.018
5.1	5.7	0.6	96.67	2	0.029
5.7	6	0.3	96.67	1.44	0.162
6	6.3	0.3	96.67	1.2	3.87
6.3	7	0.7	96.67	2.1	0.084
7	7.6	0.6	100	1.97	0.256
7.6	8.2	0.6	100	2.08	0.036
8.2	8.9	0.7	100	2.68	0.005



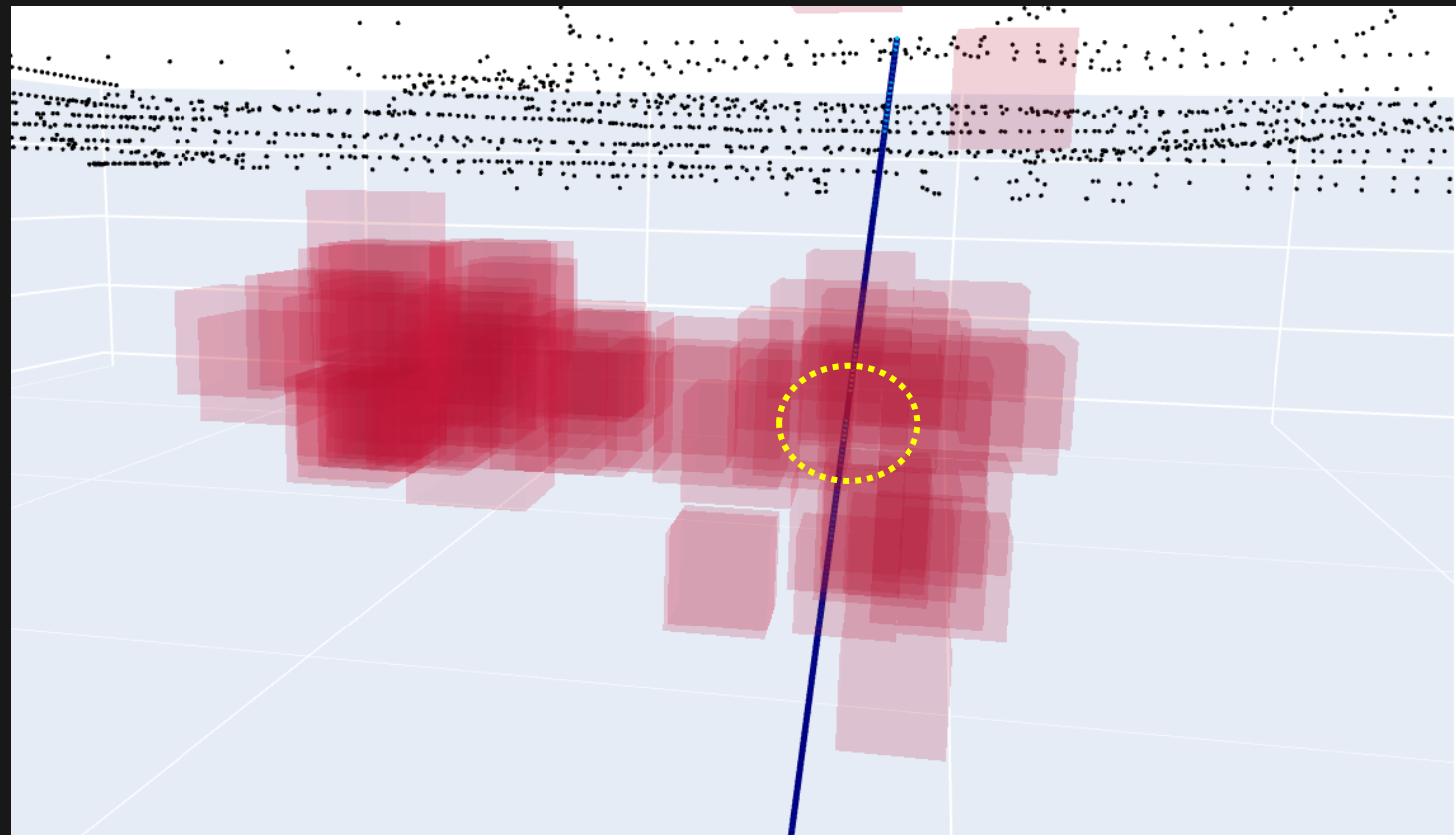
AI GUIDED DRILLING

DH010

CLUSTER 2

DH010: 1 hit at 61-69m, max grade 1.8g/T at 66m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
61.2	62.2	1	96.67	3.94	0.117
62.2	63.1	0.9	96.67	3.42	0.096
63.1	63.6	0.5	96.67	1.98	0.58
63.6	64	0.4	96.67	1.17	0.081
64	64.4	0.4	100	1.71	0.351
64.4	64.7	0.3	100	1.66	0.473
64.7	65.6	0.9	100	4.15	1.75
65.6	66.5	0.9	100	3.82	0.54
66.5	67.5	1	97.5	3.82	0.007
67.5	68.4	0.9	95	3.59	0.016
68.4	69.1	0.7	95	3.35	0.781



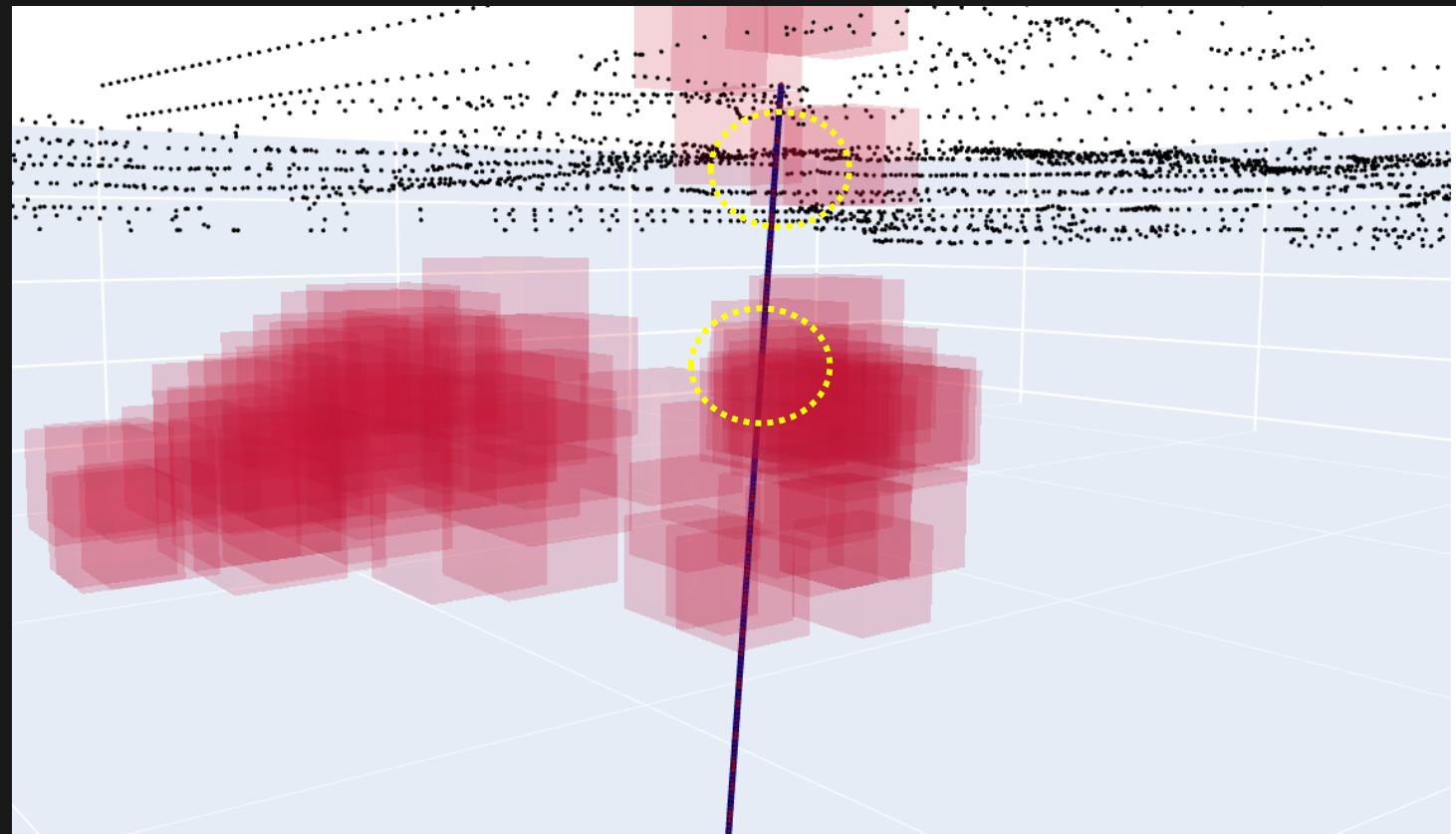
AI GUIDED DRILLING

DH011

CLUSTER 2

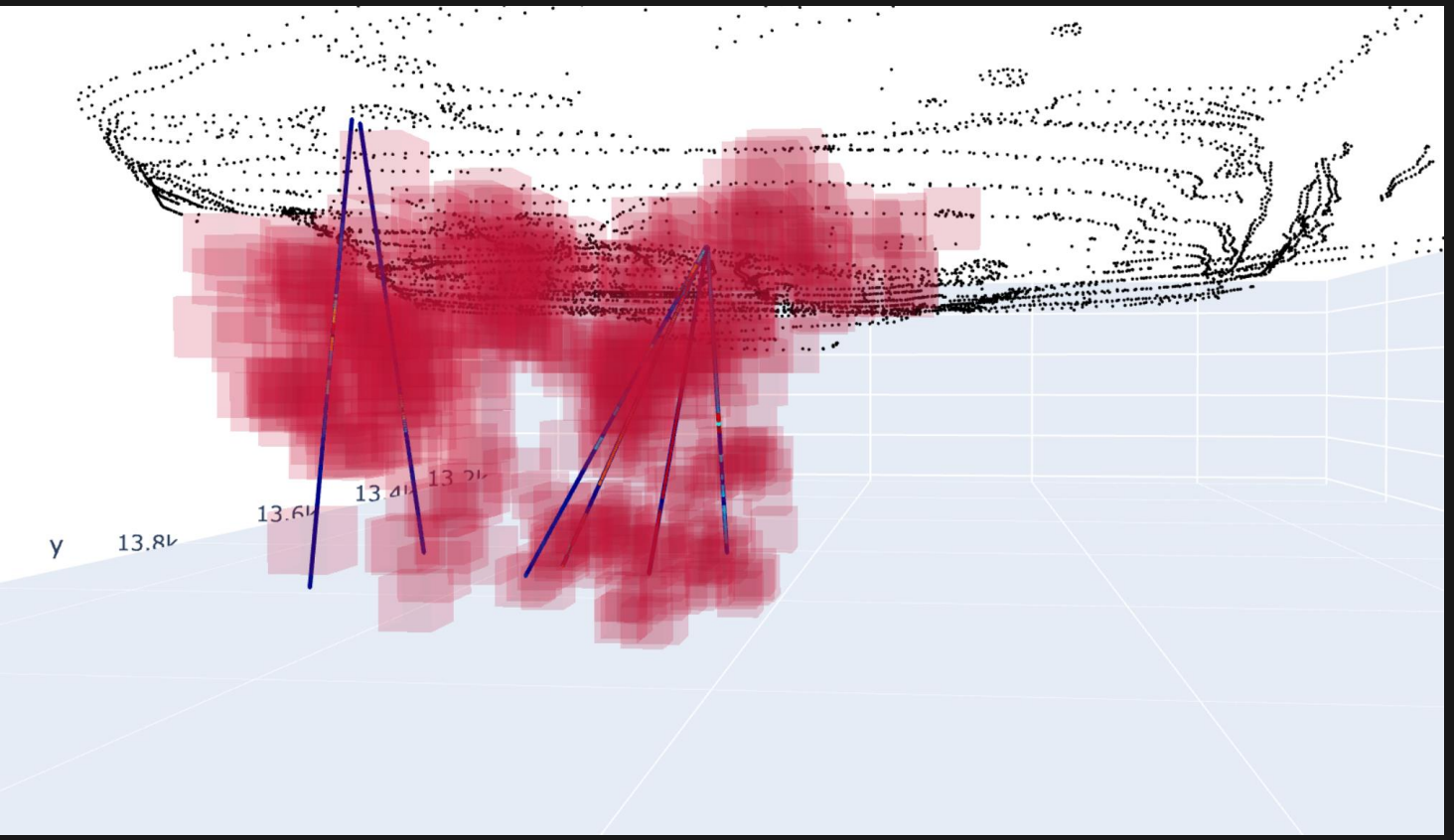
DH011: 2 hits at 2-9m, 58-71m max grade 38.5g/T at 67m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
57.4	58.3	0.9	97	4.36	0.71
58.3	59	0.7	97.67	3.7	0.019
59	59.3	0.3	97.67	1.16	0.779
59.3	59.75	0.45	97.67	1.98	0.019
59.75	60.6	0.85	97.67	3.07	0.4
60.6	61.5	0.9	95.26	4.05	0.062
61.5	62	0.5	93.33	2.59	0.594
62	62.5	0.5	93.33	1.41	0.012
62.5	62.8	0.3	93.33	1.17	0.212
62.8	63.4	0.6	93.33	2.76	0.046
63.4	63.7	0.3	93.33	1.53	0.81
63.7	64.1	0.4	93.75	1.44	1.16
64.1	64.7	0.6	95	2.17	1.155
64.7	65.7	1	95	4.68	0.076
65.7	66.6	0.9	95	3.6	0.132
66.6	67.6	1	94	4.14	1.035
67.6	68.6	1	93.33	4.17	0.007
68.6	69.3	0.7	93.33	2.83	0.023
69.3	70	0.7	93.33	2.63	0.0025
72	73	1	90	3.74	1.375



AI GUIDED DRILLING
CLUSTER OVERVIEW

CLUSTER 3



Predicted Mineralization:	Total: **20k** ounces (0.75g/T) Targeted: **11k** ounces (0.79g/T)
Resource Classification:	Indicated
DH012:	1 hit (11-23 m)
DH013:	1 hit (23-29 m)
DH014:	No hits
DH015:	No hits
DH023:	2 hits (10-15, 32-37 m)
DH024:	1 hit (94-113 m)

11k ounces verified with measured confidence. Mineralization is less volume, higher grade than predicted.

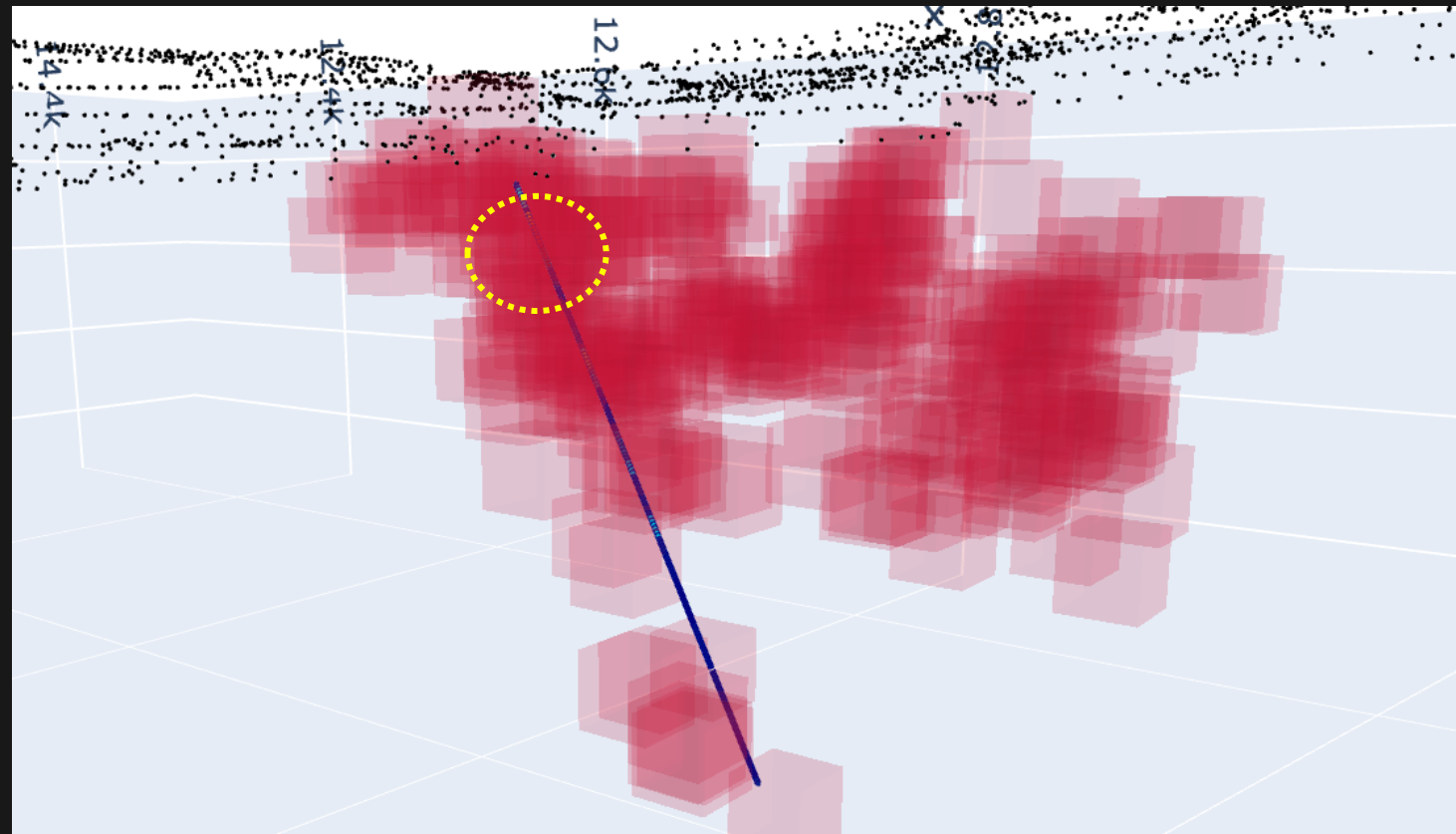
AI GUIDED DRILLING

DH012

CLUSTER 3

DH012: 1 hit at 11-23m max grade 22.6g/T at 13m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
11.1	11.7	0.6	100		0.184
11.7	12.4	0.7	100		0.085
12.4	12.7	0.3	100		22.6
12.7	13.4	0.7	100		0.017
13.4	14.1	0.7	100		0.025
14.1	14.7	0.6	100		14.55
14.7	15.3	0.6	100		2.04
15.3	16.5	1.2	99.17		1.415
16.5	17.2	0.7	98		5.24
17.2	18.2	1	98		0.029
18.2	18.7	0.5	98		1.025
18.7	19.4	0.7	98.19		0.075
19.4	20.2	0.8	98.33		0.026
20.2	20.5	0.3	98.33		0.648
20.5	21.3	0.8	98.33		0.184
21.3	22.3	1	98.03		0.055
22.3	23.1	0.8	97.33		1.725



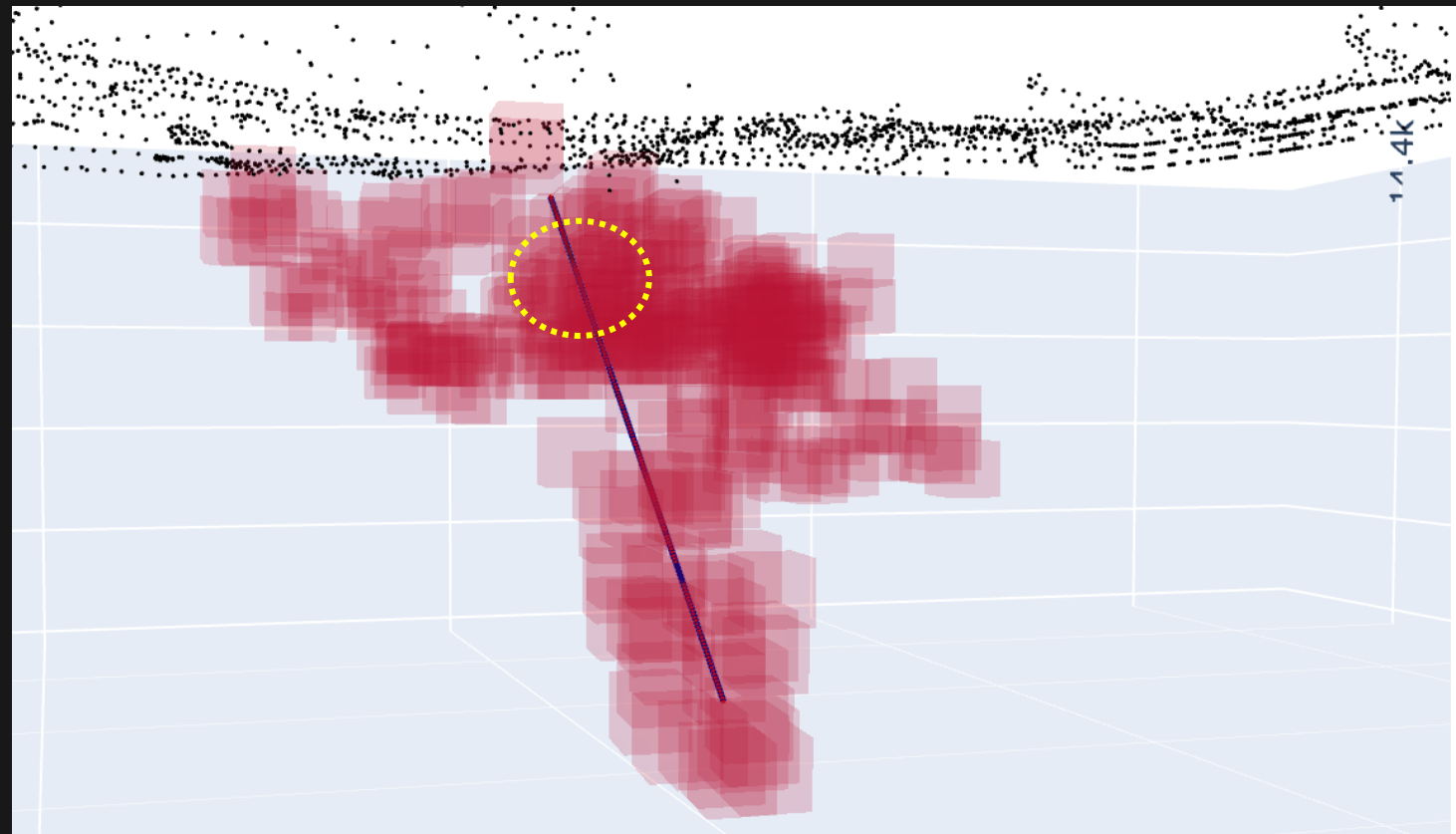
AI GUIDED DRILLING

DH013

CLUSTER 3

DH013: 1 hit at 23-29m max grade 6.7g/T at 26m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
23.2	23.9	0.7	97.33		0.08
23.9	24.5	0.6	97.33		0.094
24.5	25.5	1	97		6.73
25.5	26.6	1.1	96.67		0.066
26.6	27.7	1.1	96.67		0.914
27.7	28.7	1	99		0.044



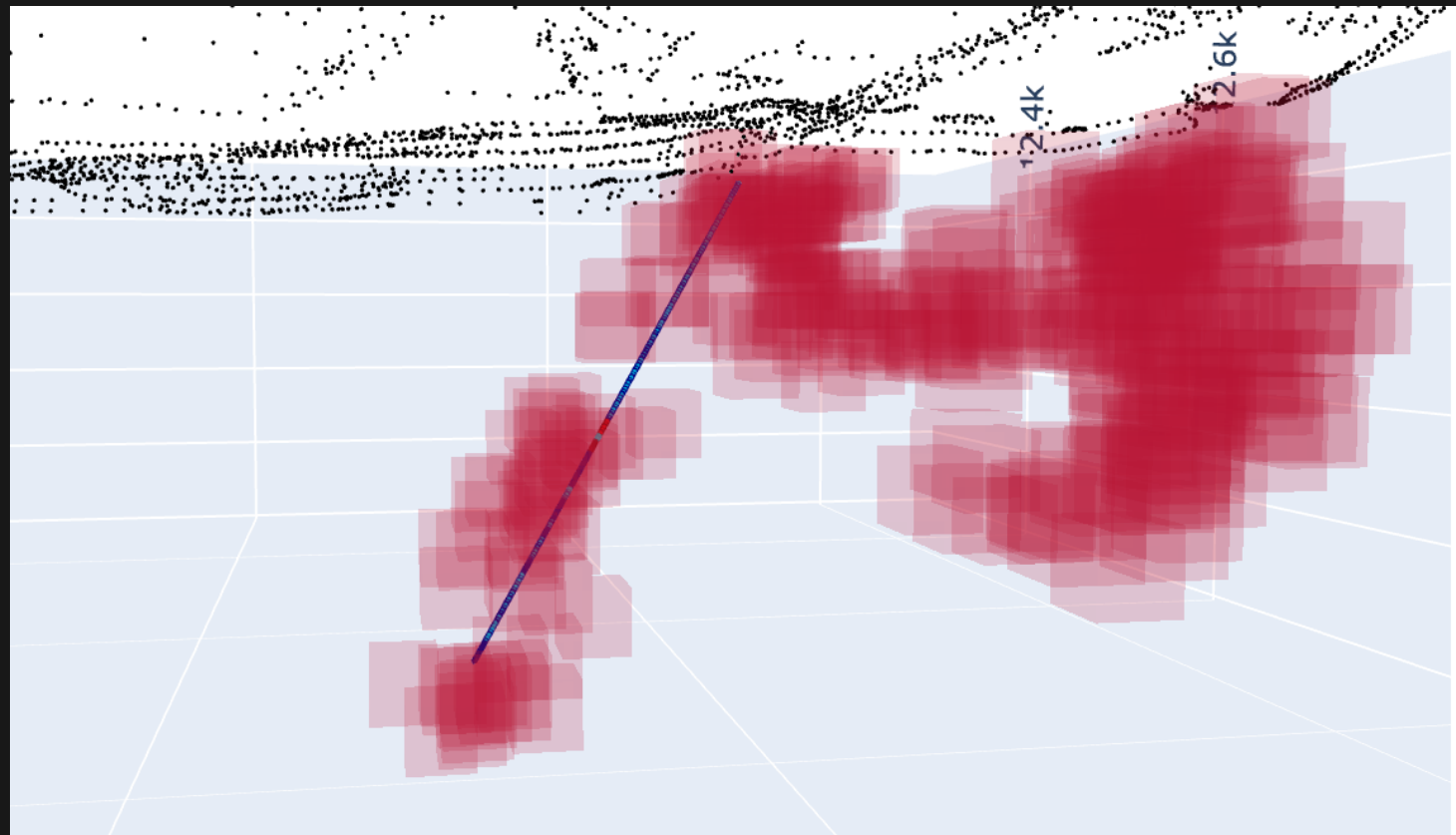
AI GUIDED DRILLING

DH014

CLUSTER 3

DH014: no hits, max grade 0.9g/T at 9m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
6.4	7.4	1	100		0.008
7.4	8.4	1	100		0.01
8.4	9.2	0.8	100		0.935
9.2	10	0.8	100		0.014
10	10.9	0.9	100		0.022



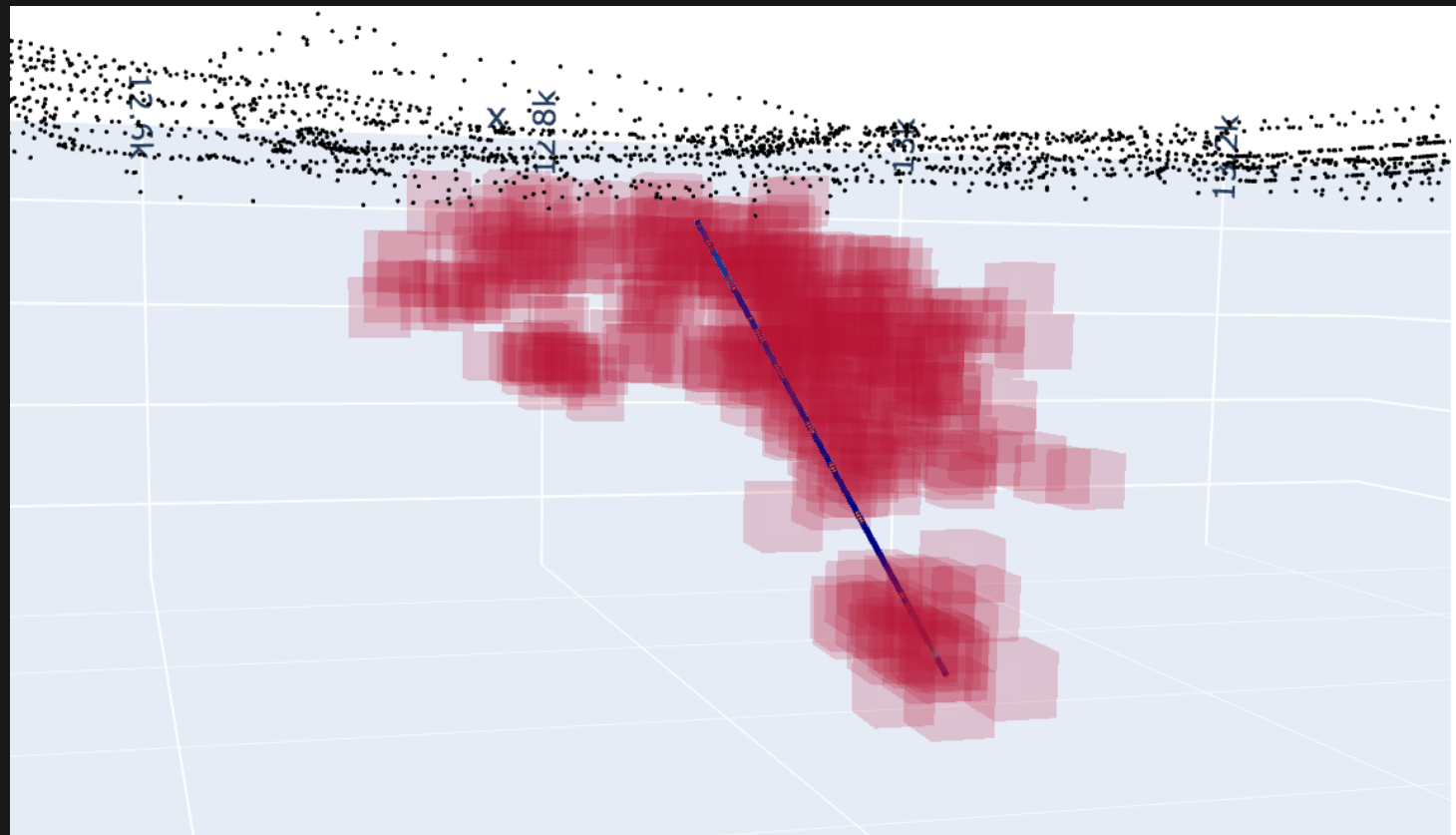
AI GUIDED DRILLING

DH015

CLUSTER 3

DH015: no hits, max grade 1.8g/T at 35m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
28.4	29.3	0.9	97		0.287
29.3	30.3	1	97		0.013
30.3	31.1	0.8	97.38		0.03
31.1	31.9	0.8	100		0.086
31.9	32.2	0.3	100		0.17
32.2	33.1	0.9	100		0.01
33.1	33.4	0.3	100		0.187
33.4	34	0.6	100		0.02
34	34.6	0.6	97.67		0.094
34.6	35	0.4	97.67		1.765
35	35.6	0.6	97.67		0.05



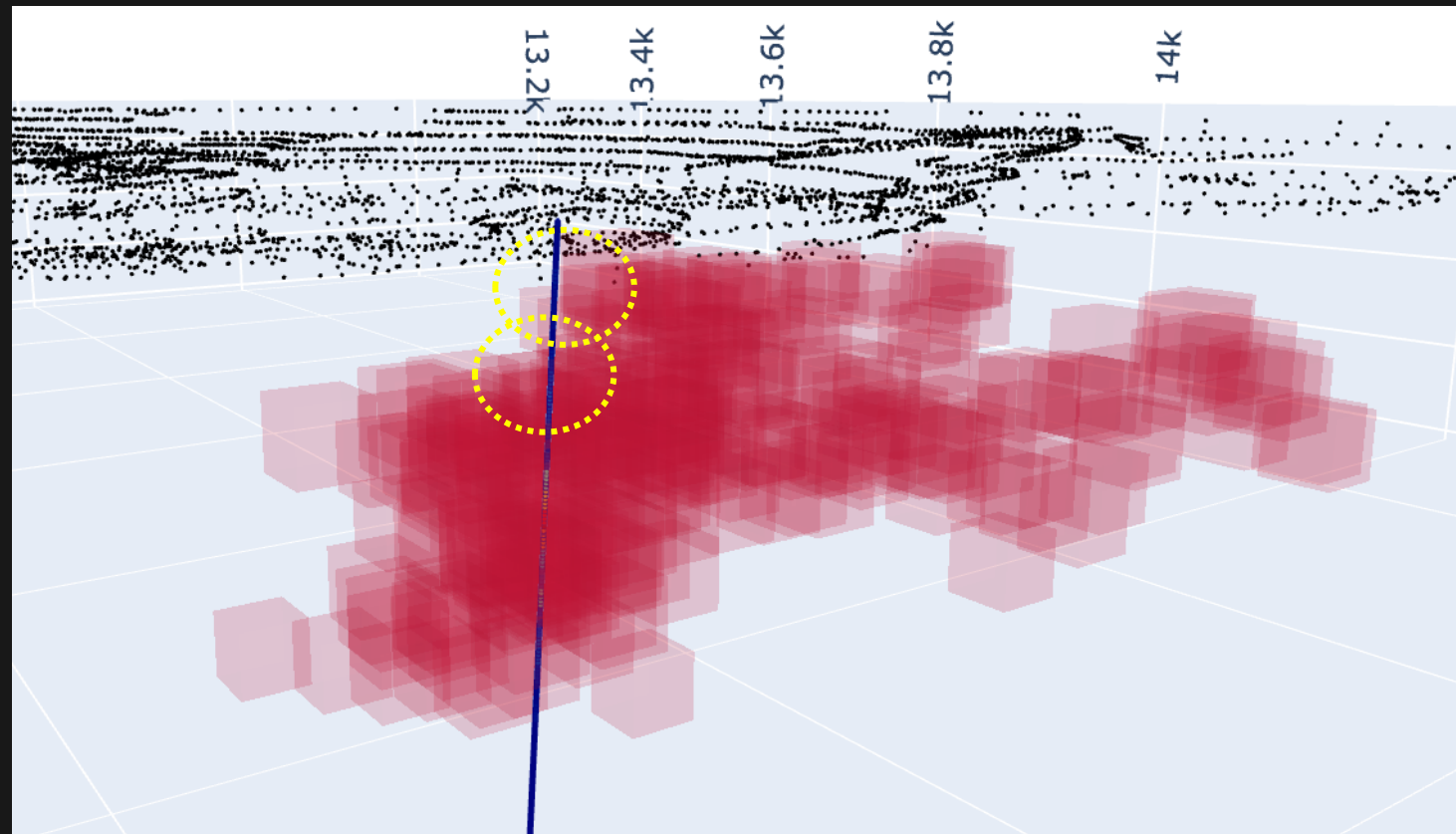
AI GUIDED DRILLING

DH023

CLUSTER 3

DH023: 2 hits at 10-15m, 32-37m max grade 20.8g/T at 34m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
32.2	33.2	1	99.33		0.024
33.2	34	0.8	99.33		0.026
34	34.3	0.3	98.33		20.8
34.3	35.15	0.85	98.33		0.029
35.15	36.1	0.95	98.33		0.006
36.1	37	0.9	98.33		0.027



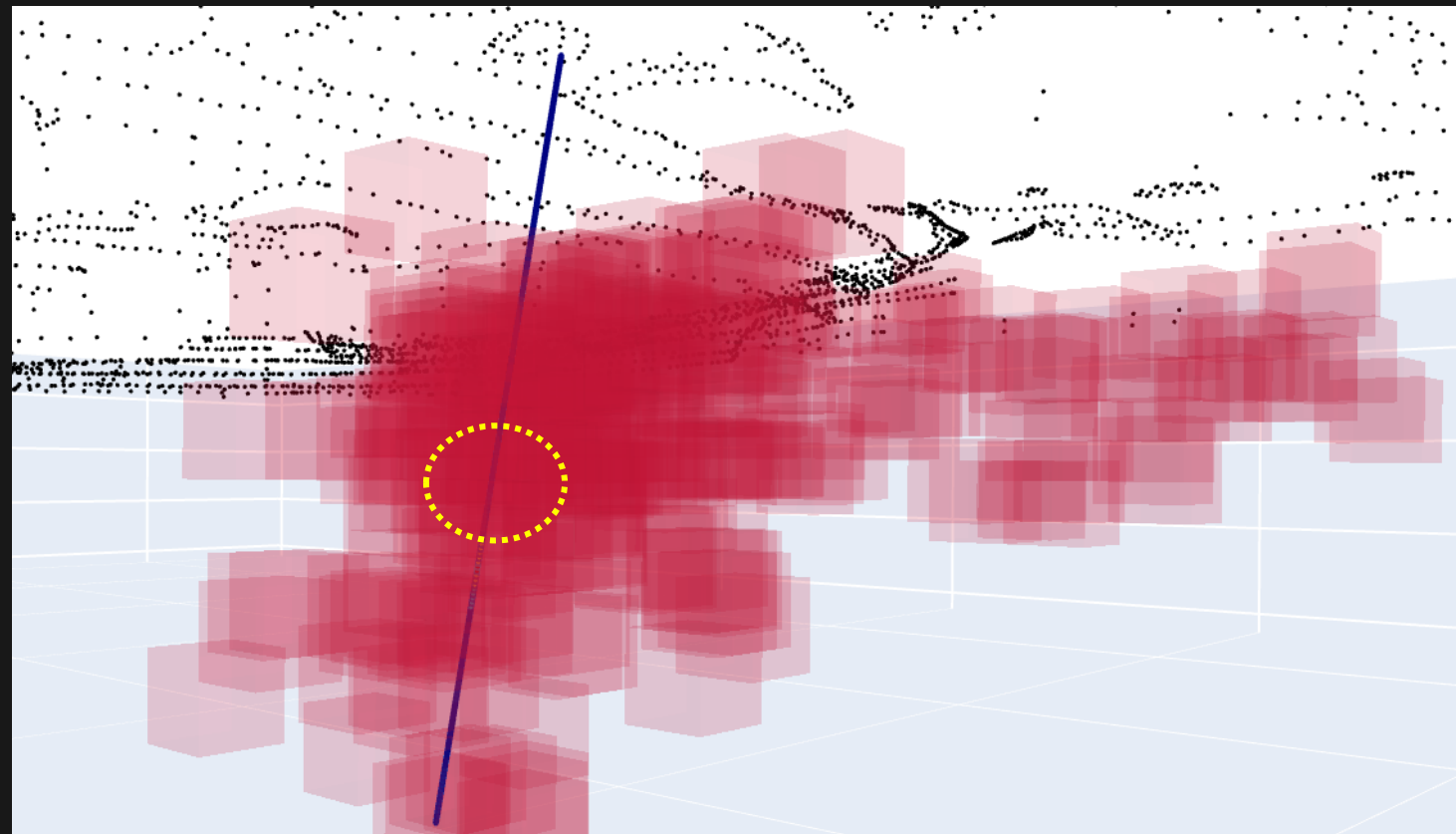
AI GUIDED DRILLING

DH024

CLUSTER 3

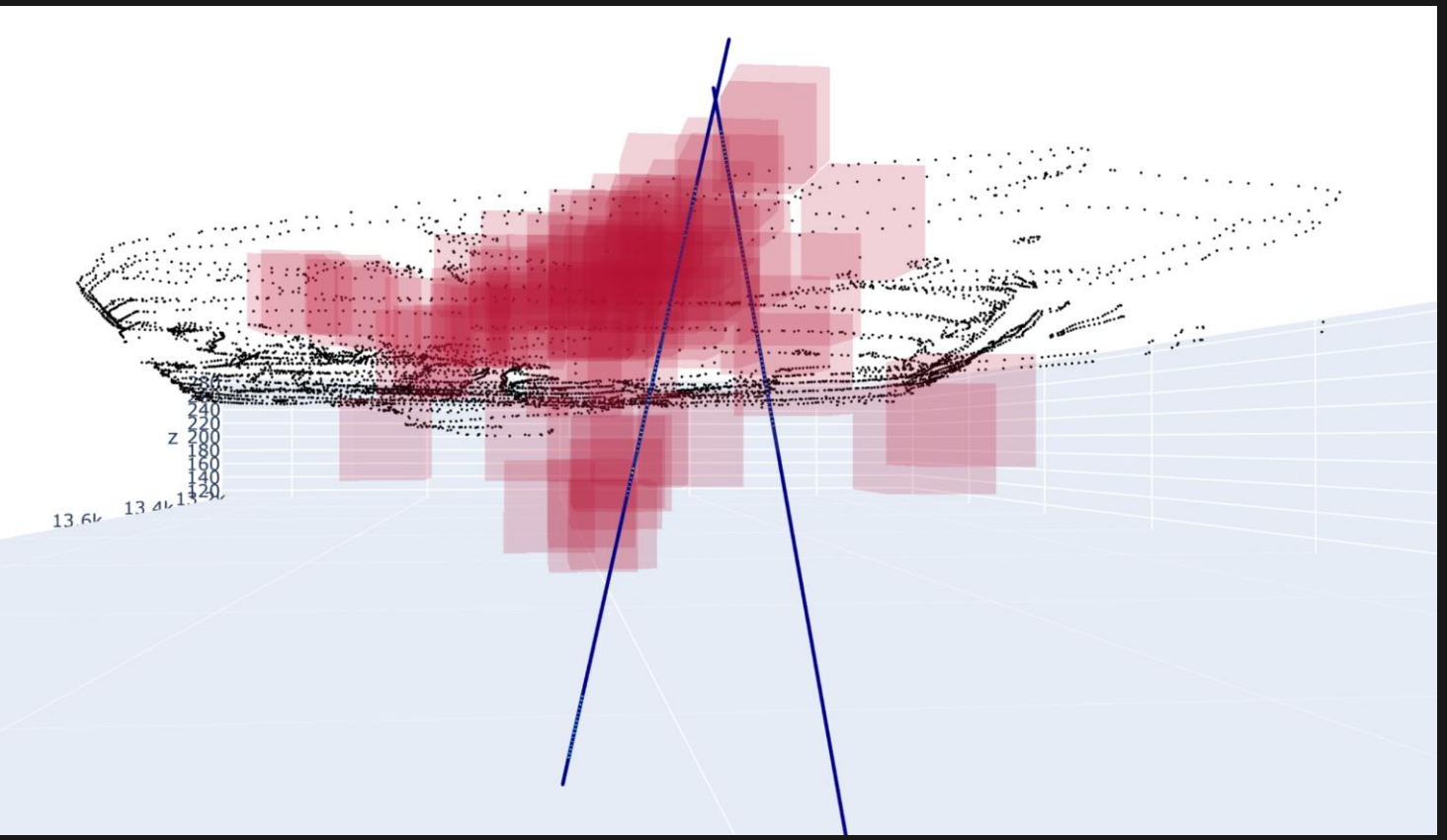
DH024: 1 hit at 94-113m, max grade 86g/T at 106m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
94.25	94.9	0.65	100		0.264
94.9	95.4	0.5	100		0.137
95.4	96.4	1	100		0.303
96.4	97	0.6	100		0.178
97	97.6	0.6	98.67		0.553
97.6	98.4	0.8	98.67		0.111
98.4	99.4	1	98.67		0.021
99.4	100.4	1	99.07		0.034
100.4	101.6	1.2	99.67		0.012
101.6	102.6	1	99.67		0.437
102.6	103.1	0.5	99.2		0.399
103.1	103.9	0.8	97.33		0.178
103.9	104.85	0.95	97.33		0.018
104.85	105.45	0.6	97.33		0.025
105.45	106	0.55	97.33		86
106	106.7	0.7	99.67		4.27
106.7	107.25	0.55	99.67		82
107.25	107.85	0.6	99.67		19.7
107.85	108.9	1.05	99.67		1.925
108.9	109.9	1	97.57		0.034
109.9	110.9	1	97.33		0.027



AI GUIDED DRILLING
CLUSTER OVERVIEW

CLUSTER 4



Predicted Mineralization:	Total: **9k** ounces (0.65g/T) Targeted: **3k** ounces (0.63g/T)
Resource Classification:	Inferred
DH016:	No hits
DH018:	2 hits (17-22, 48-53 m)

2k ounces verified with indicated confidence.

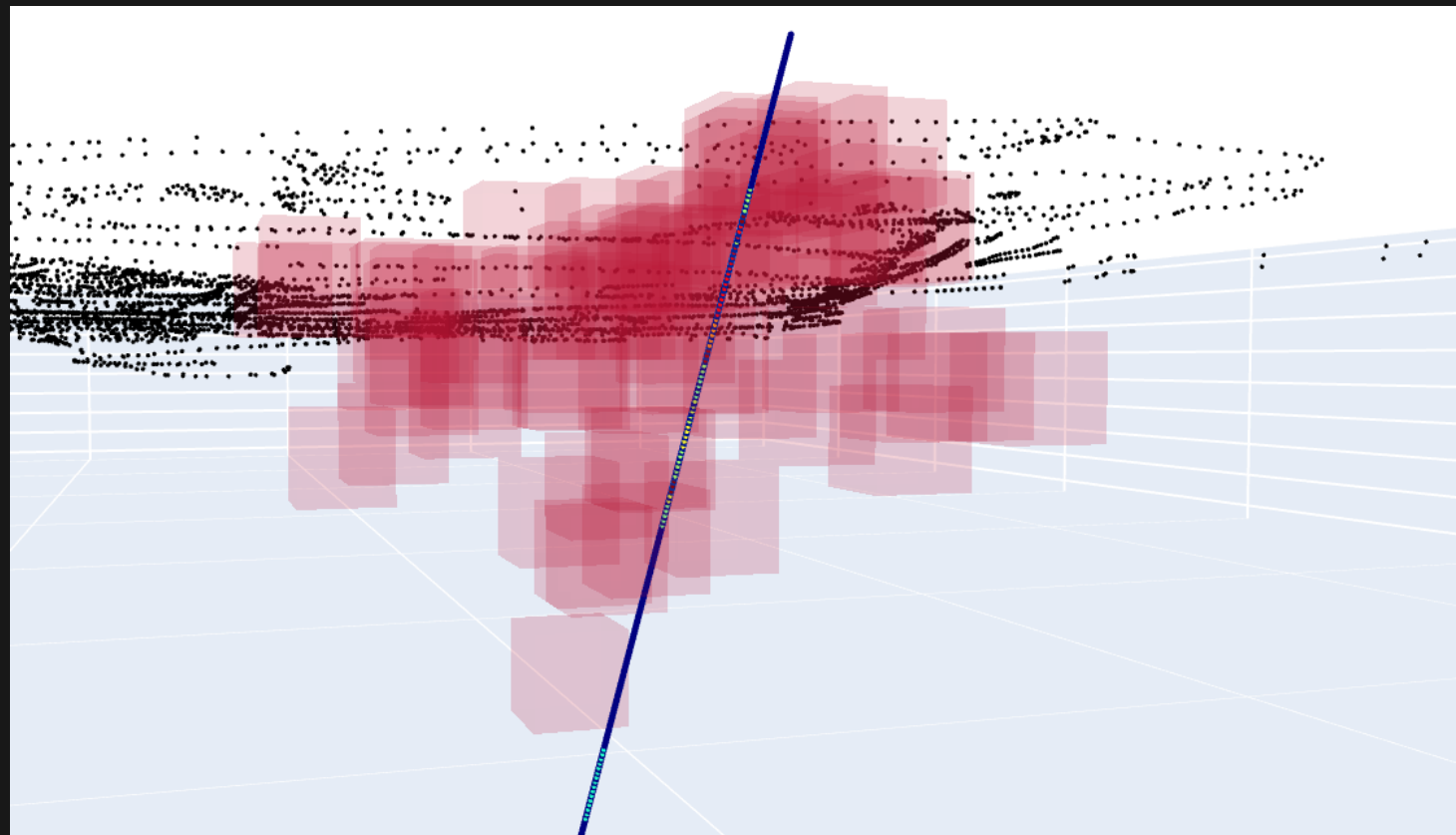
AI GUIDED DRILLING

DH016

CLUSTER 4

DH016: no hits, max grade 1.24g/T at 76m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
75.2	75.9	0.7	99		0.035
75.9	76.2	0.3	94.11		1.24
76.2	77.2	1	91.67		0.016
77.2	78.2	1	91.67		0.028
78.2	79.2	1	92.93		0.009
79.2	80.1	0.9	98		0.014
80.1	81	0.9	98		0.008



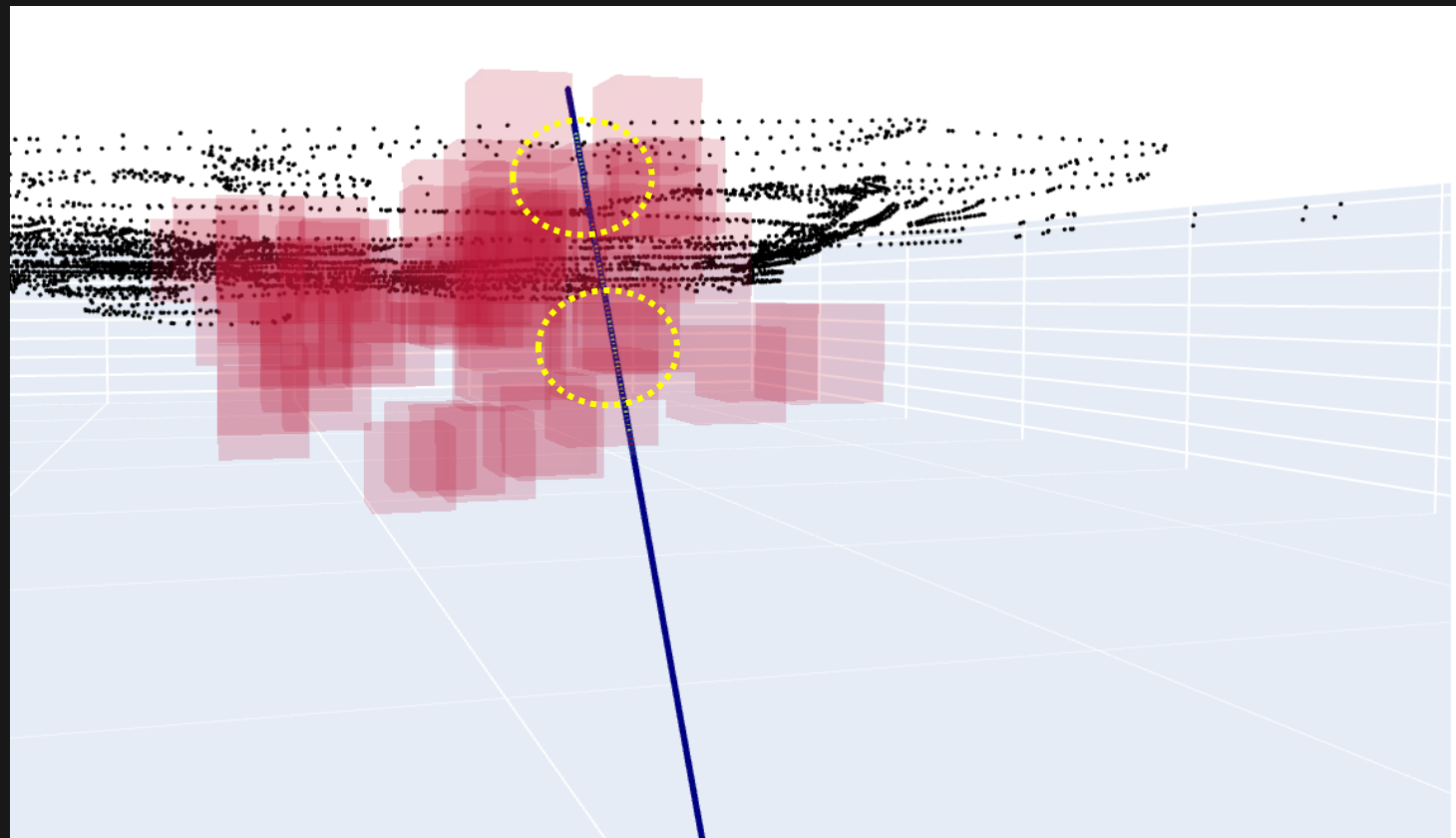
AI GUIDED DRILLING

DH018

CLUSTER 4

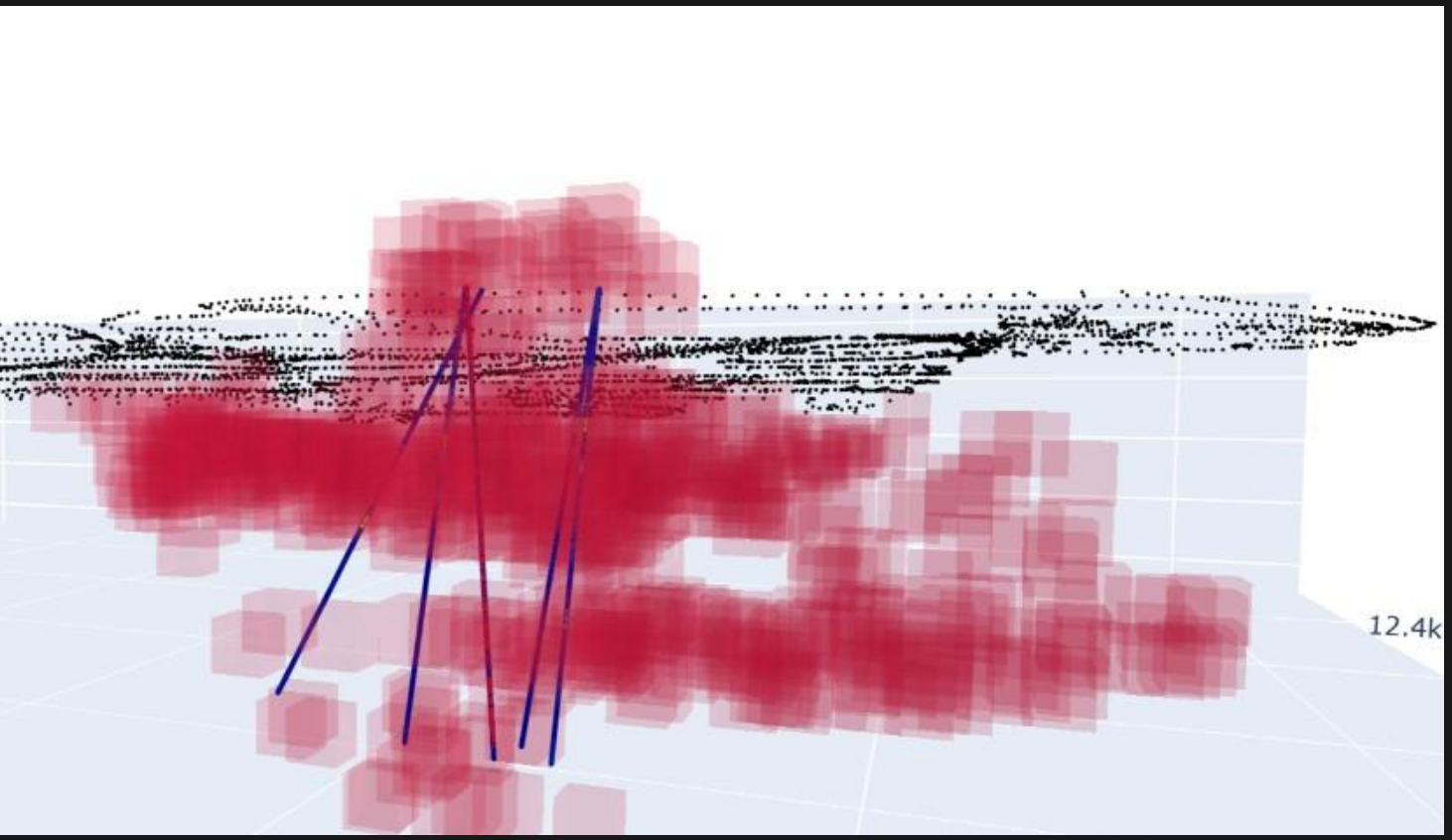
DH018: 2 hits at 17-22m, 48-53m max grade 3.2g/T at 52m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
17	18	1	98.33	3.28	0.034
18	19	1	98.33	3.47	0.394
19	19.4	0.4	93.33	1.49	2.82
19.4	20.4	1	93.33	3.66	1.1
20.4	21.4	1	93.33	3.72	0.019
21.4	22.4	1	94	4.02	0.012



AI GUIDED DRILLING
CLUSTER OVERVIEW

CLUSTER 6



Predicted Mineralization:	Total: **70k** ounces (0.71g/T) Targeted: **14k** ounces (0.74g/T)
Resource Classification:	Indicated
DH025:	3 hits (12-23, 28-34, 118-123 m)
DH027:	2 hits (15-22, 88-93 m)
DH029:	1 hit (20-30 m)
DH030:	4 hits (13-18, 22-30, 32-39, 40-46 m)
DH032:	1 hit (19-24 m)

12k ounces verified with measured confidence. Mineralization occurs at 12-50m depth.

AI GUIDED DRILLING

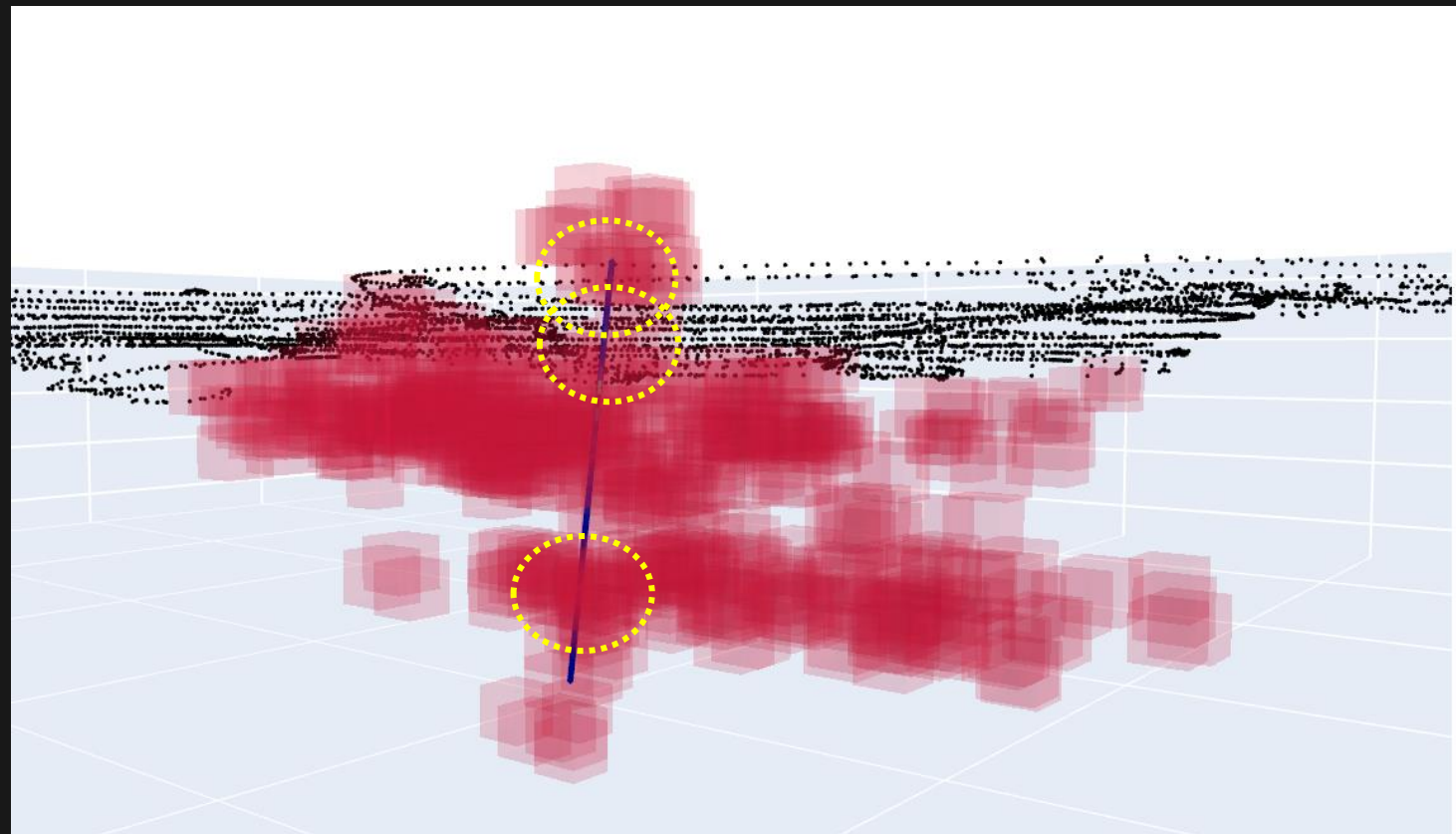
DH025

CLUSTER 6

DH025: 3 hits at 12-23m, 29-34m, 118-123m max grade 74g/T at 19m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
12.7	13.7	1	98.13		0.134
13.7	14.6	0.9	97.33		0.397
14.6	15.6	1	97.33		0.018
15.6	16.5	0.9	98.81		0.038
16.5	16.9	0.4	100		0.19
16.9	17.5	0.6	100		34.5
17.5	18	0.5	100		20.2
18	18.7	0.7	100		0.108
18.7	19.35	0.65	98.03		74.4
19.35	20.15	0.8	96.33		0.732
20.15	20.65	0.5	96.33		15.95
20.65	21.7	1.05	96.33		5.16

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
118.6	119.8	1.2	99.33		0.07
119.8	120.3	0.5	99.33		1.13
120.3	120.6	0.3	99.33		7.07
120.6	121.5	0.9	97.48		0.121
121.5	122.5	1	96		0.056



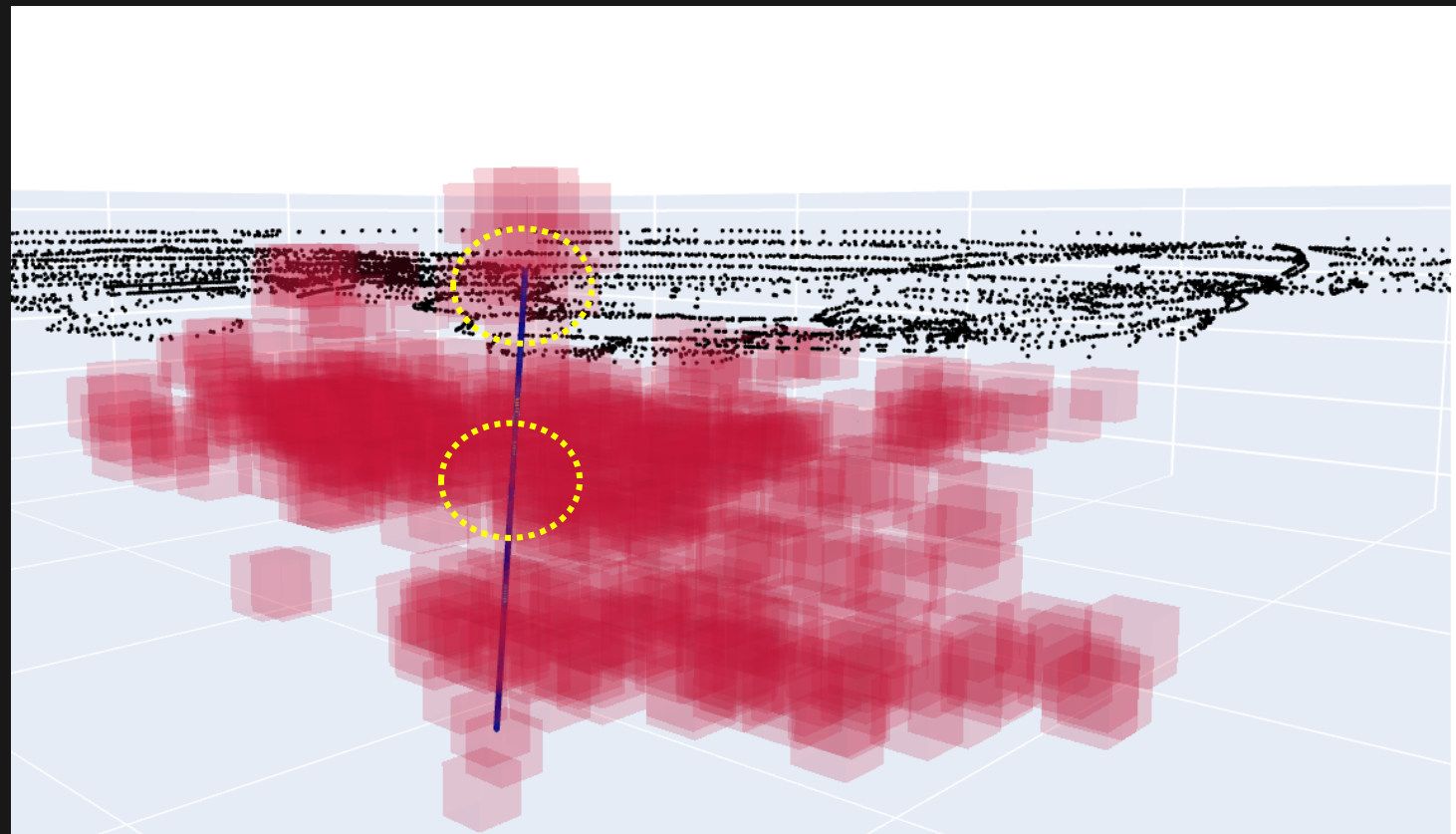
AI GUIDED DRILLING

DH027

CLUSTER 6

DH027: 2 hits at 15-22m, 88-93m max grade 12.2g/T at 19m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
16.2	17.2	1	100		0.015
17.2	17.9	0.7	100		3.34
17.9	18.6	0.7	100		12.2
18.6	19.6	1	99.4		0.731
19.6	20.6	1	99		1.21
20.6	21.3	0.7	99		0.579
21.3	22	0.7	99		0.121



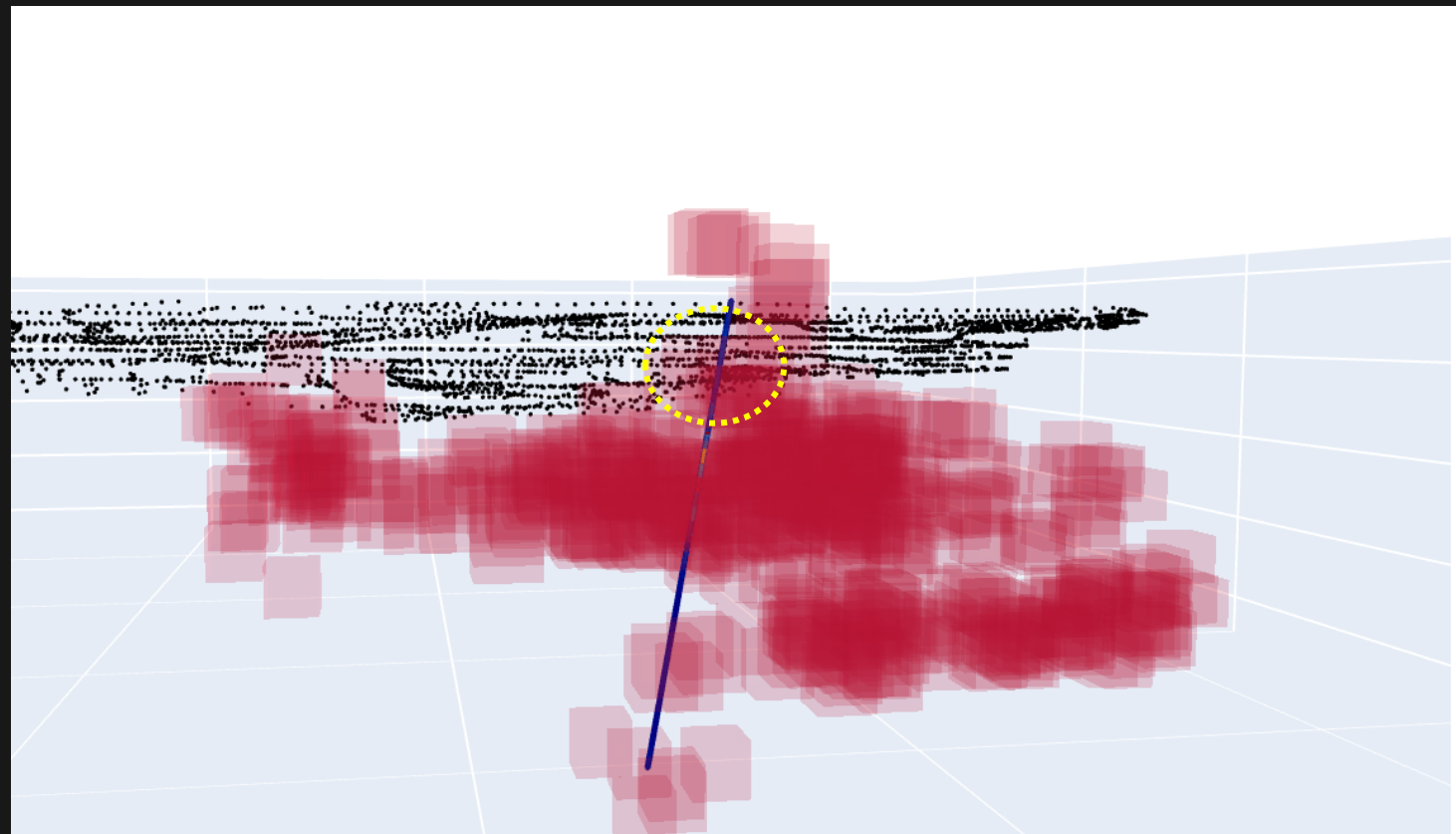
AI GUIDED DRILLING

DH029

CLUSTER 6

DH029: 1 hits at 20-30m, max grade 2.6/T at 25m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
20.9	21.9	1	100		0.011
21.9	22.9	1	100		0.86
22.9	23.9	1	100		1.415
23.9	24.9	1	100		2.61
24.9	25.9	1	97		1.44
25.9	26.9	1	96.67		0.351
26.9	27.8	0.9	96.67		0.354
27.8	28.7	0.9	97.7		0.052
28.7	29.7	1	98		0.387
29.7	30.7	1	98		0.15
30.7	31.4	0.7	99.14		0.139
31.4	32.1	0.7	100		0.048
32.1	32.6	0.5	100		0.152
32.6	33.3	0.7	100		0.028
33.3	34	0.7	100		0.234
34	34.3	0.3	98.33		0.126
34.3	35.4	1.1	98.33		0.205



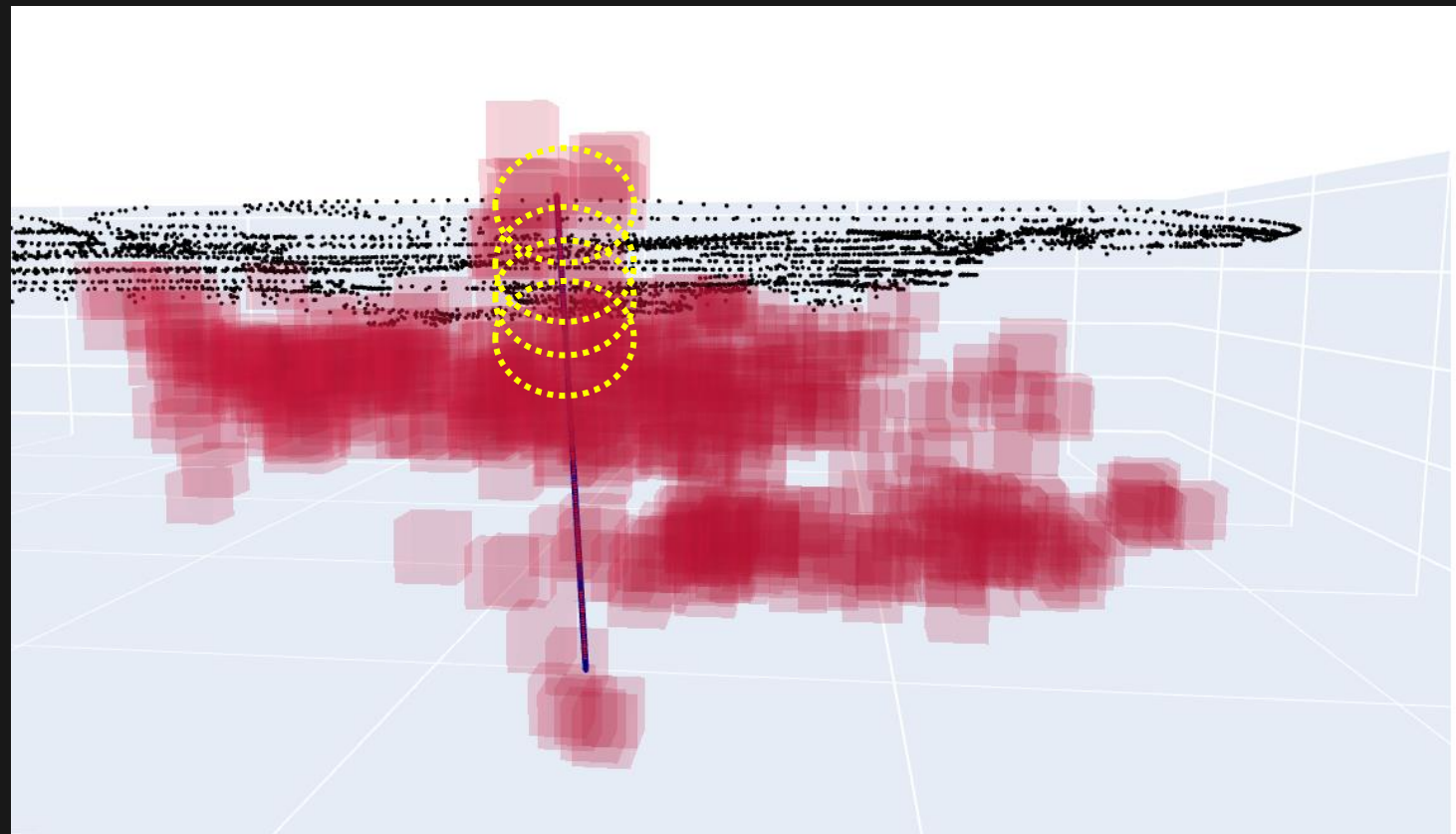
AI GUIDED DRILLING

DH030

CLUSTER 6

DH030: 4 hits at 13-18m, 22-30m, 32-39m, 40-46m max grade 6.4g/T at 41m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
25	25.9	0.9	99		1.495
25.9	26.4	0.5	99		1.56
26.4	27	0.6	99		0.346
27	28	1	99		0.337
28	29	1	100		0.291
29	30	1	100		0.173
30	31	1	100		0.05
31	32.1	1.1	100		0.05
32.1	33.2	1.1	100		0.209
33.2	34	0.8	100		0.629
34	34.4	0.4	98		0.158
34.4	35.1	0.7	98		0.635
35.1	35.8	0.7	98		0.267
35.8	36.5	0.7	98		0.367
36.5	37	0.5	98		1.115
37	38	1	95.67		0.269
38	38.9	0.9	95.67		0.328
38.9	39.5	0.6	95.67		0.052
39.5	40	0.5	95.67		0.035
40	41.1	1.1	100		0.136
41.1	41.4	0.3	100		6.35
41.4	41.9	0.5	100		0.239



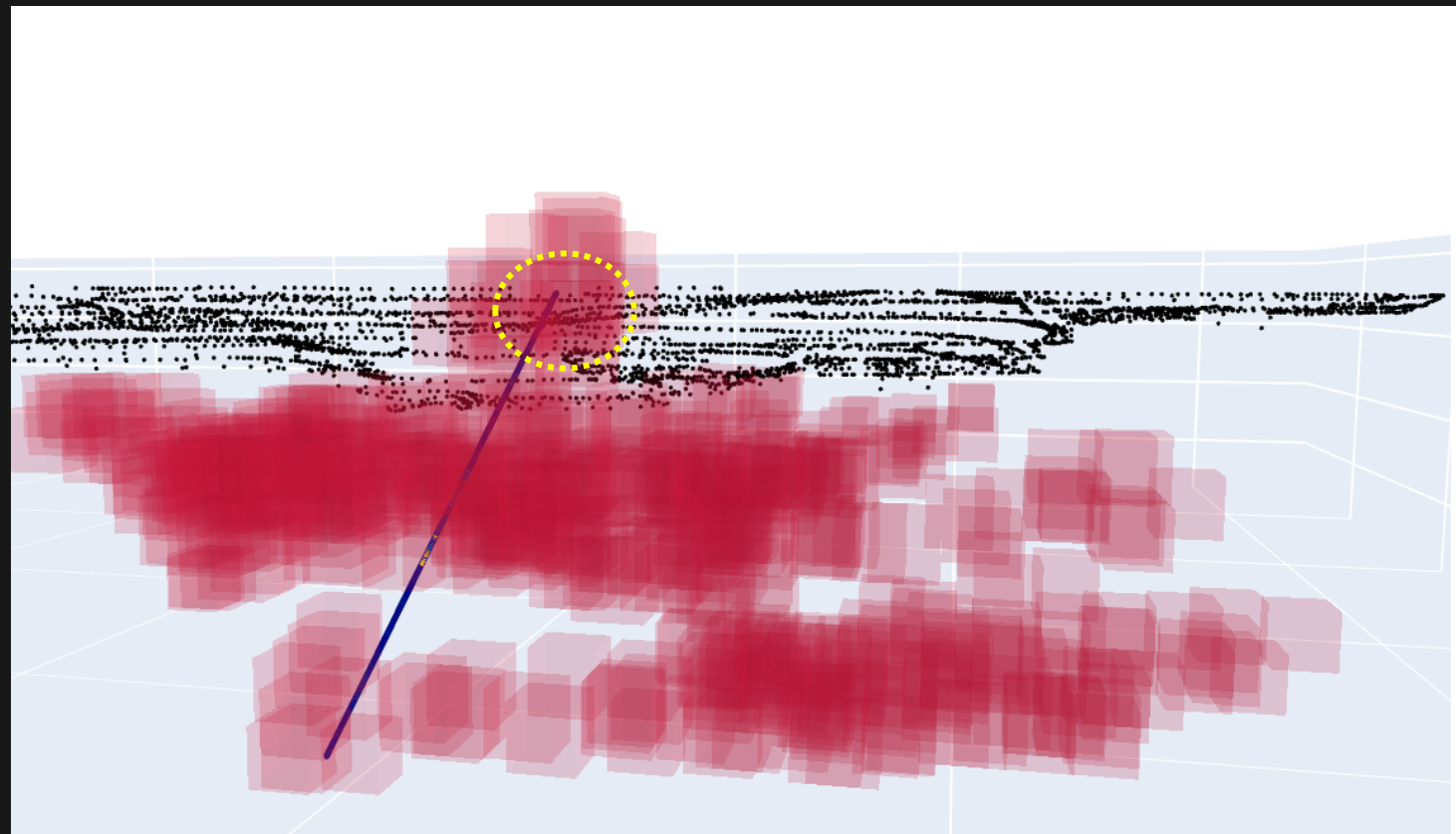
AI GUIDED DRILLING

DH032

CLUSTER 6

DH032: 1 hit at 19-24m, max grade 1.1g/T at 68m

DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
18.7	19.5	0.8	95.42		0.044
19.5	20.5	1	95.67		0.487
20.5	21.5	1	95.67		0.999
21.5	22.5	1	95		0.034
22.5	23.3	0.8	94.33		0.016
23.3	24.3	1	94.33		0.028



AI GUIDED DRILLING

TOP INTERCEPTS PER DDH

Cluster 1

- DH001: 2.7g/T at 46m
- DH002: 12.1g/T at 3m
- DH003: 72.6g/T at 51m
- DH005: 11.3g/T at 3m

Cluster 2

- DH006: 1.8g/T at 5m
- DH007: 3.5g/T at 42m
- DH008: 2.0g/T at 61m
- DH009: 3.9g/T at 6m
- DH010: 1.8g/T at 66m
- DH011: 38.5g/T at 67m

Cluster 3

- DH012: 22.6g/T at 13m
- DH013: 6.7g/T at 26m
- DH023: 20.8g/T at 34m
- DH024: 86g/T at 106m

Cluster 4

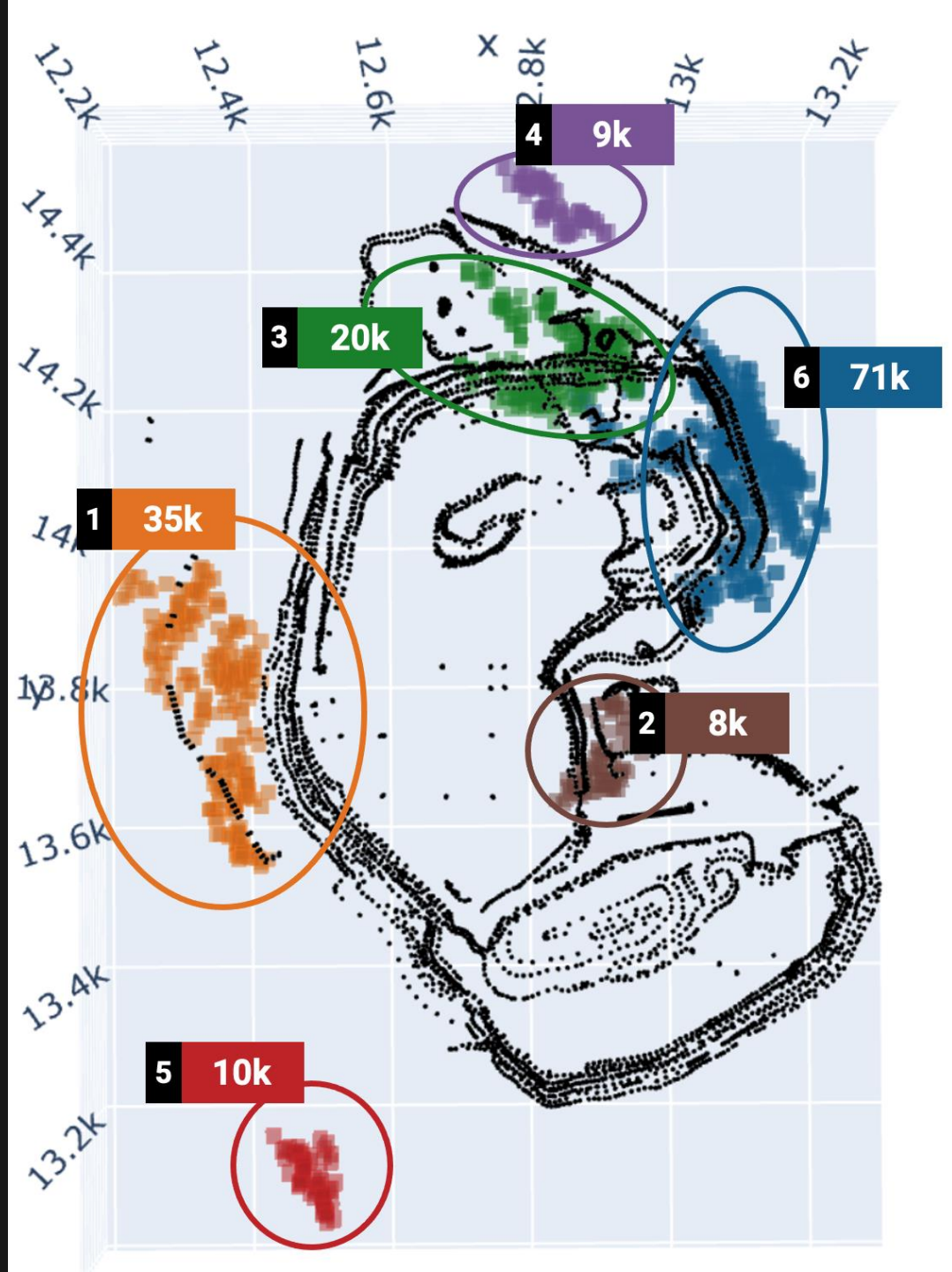
- DH018: 3.2g/T at 52m

Cluster 5

Results pending

Cluster 6

- DH025: 74g/T at 19m
- DH027: 12.2g/T at 19m
- DH029: 2.6/T at 25m
- DH030: 6.4g/T at 41m
- DH032: 1.1g/T at 68m



AI GUIDED DRILLING
GOLD DEPOSIT

SUMMARY

38k

OUNCES ($70M)
Verified (measured) with 2.4 km of drilling

+1Q

MINE LIFE
Will extend **mine life by 1 quarter**

83%

HIT RATE
AI improves drilling hit-rate from 63% to 83% drillhole gold hit rate

32%

HIGHER OZ PER DDH RATE
All future drilling will prove **32% more oz per drillhole**

STRATUM

LOW RISK – HIGH YIELD – AI DRIVEN