STRATUM AI

GOLD DRILLING CASE STUDY

Guided drilling program verified (measured)
38k oz of gold with 32% more oz proven per drillhole.

CASE OVERVIEW

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CONTEXT & CHALLENGE

- Data Inputs : ~150k meters of drillhole assays, ~40k blasthole assays, ~40k additional assays.
- Highly nuggety deposit with extreme variability (0–10 g/t between adjacent samples).
- Traditional methods struggle to distinguish true nuggets from noise.

AI APPROACH

The AI model is trained on high-nugget data, enabling it to capture geological variability beyond conventional methods and improve signal detection in complex grade distributions.

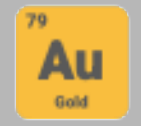
VALUE DELIVERED

Higher-confidence resource model, improved ore–waste separation for enhanced mine planning, increased resource through identification of missed mineralization, and faster validation with reduced drilling.

DEPOSIT

UNDERGROUND

Intrusion-related gold deposit in northern Kazakhstan



*AI-driven modelling enabled the discovery of 38k ounces ($70M) of new mineralization, verified (measured) with 2.4 km of drilling

APPLIED METHODOLOGY

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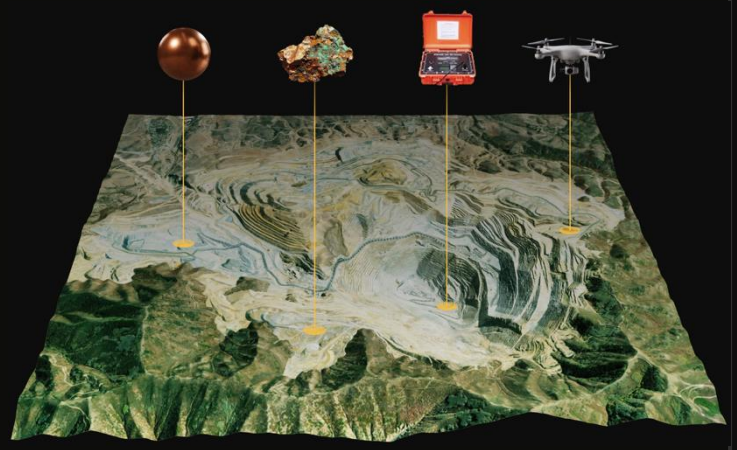
1 INPUT
Existing data

Historical, multichannel, and other unstructured data



We leverage all available data —such as metallurgy, geochemistry, geophysics, and sensor data— together with the full historical dataset of the mine

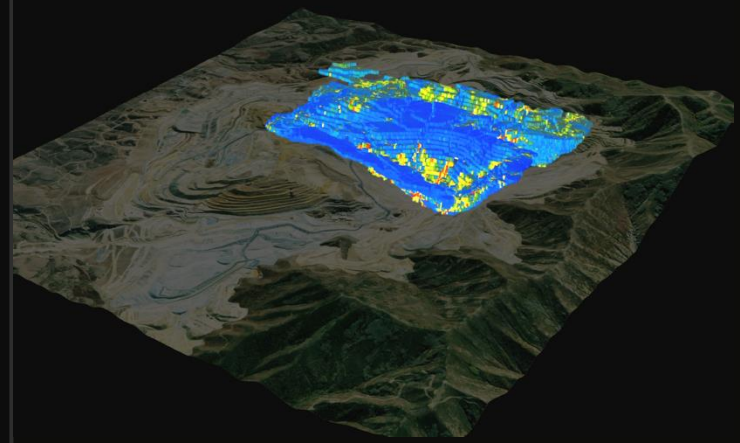
2 PROCESSING
Saige Deep Learning

AI-driven analysis and integration of complex patterns

Our AI model learns geological patterns from historical data, using a neural network trained on high-density datasets to model multivariate relationships in lower-density environments.

3 OUTPUT
AI predictive model

More accurate and comprehensive identification of mineral deposits



Identifies previously unrecognized mineralized areas, improves definition in zones with low data density, and enables continuously updated resource models that guide companies toward the most profitable locations for mineral extraction.

CORE ARCHITECTURE

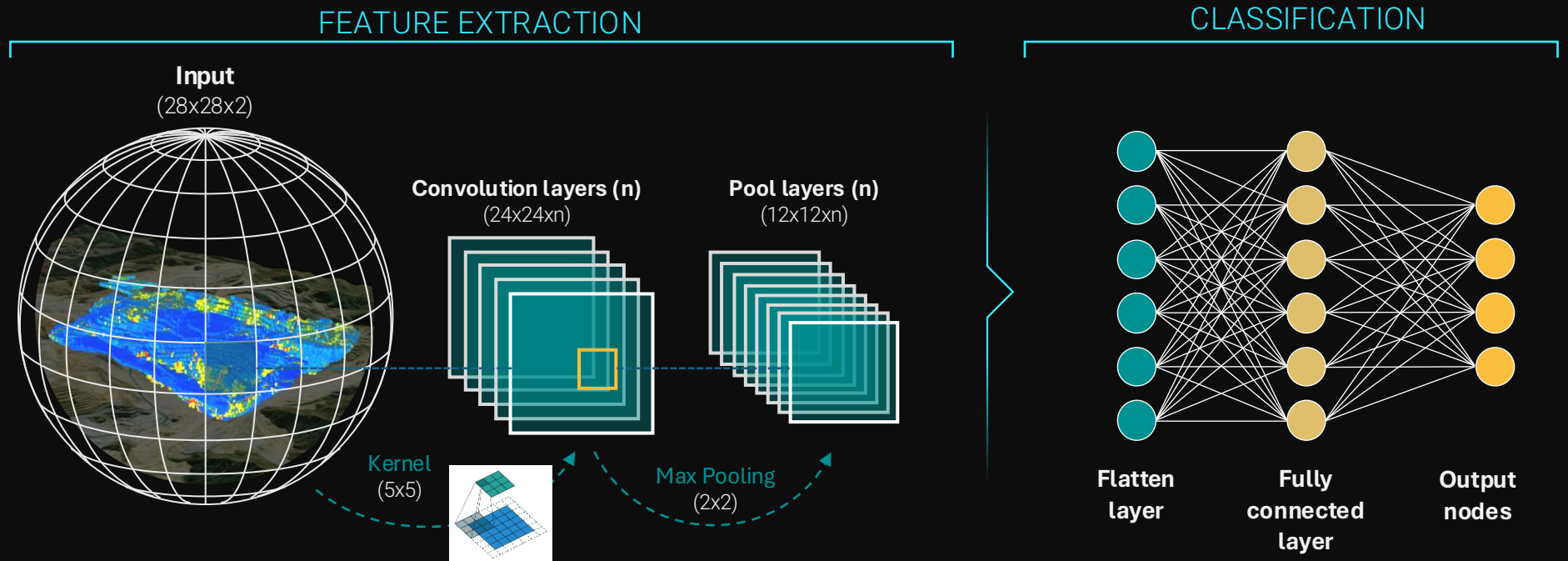
STRATUM AI

SAIGE

Stratum AI
Geospatial Estimator

CONVOLUTIONAL NEURAL NETWORK

Deep learning algorithm that successfully captures spatial dependencies in an image through the application of relevant filters. Stratum AI model is based on this architecture, adapting it to the unique challenges of mining data.

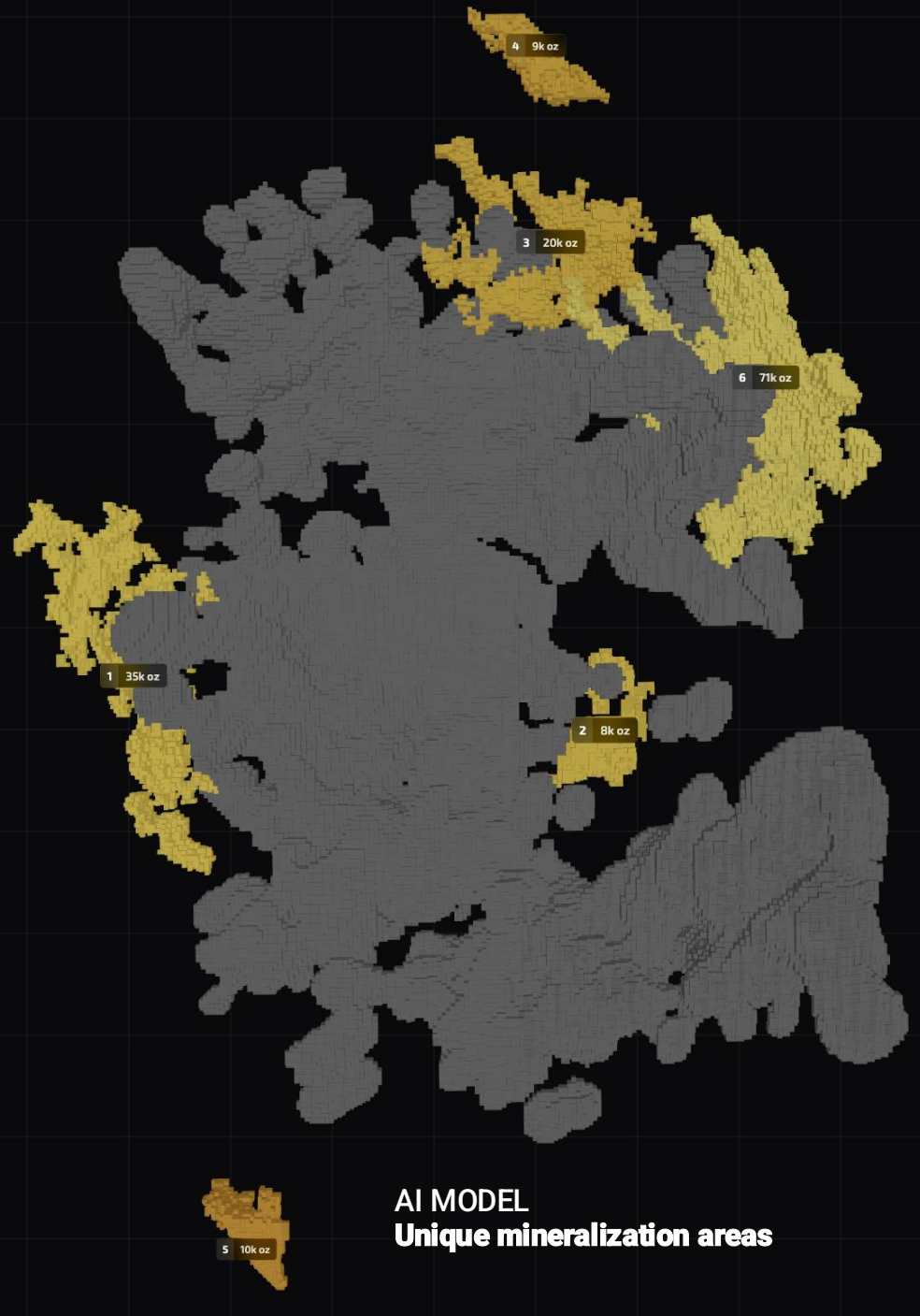


SAIGE MODEL RESULTS

"UNIQUE MINERALIZATION" refers to areas where AI predicted copper above the cutoff threshold while traditional methods did not

AI model 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 MODEL
Unique mineralization areas

DRILLHOLE EVALUATION CRITERIA

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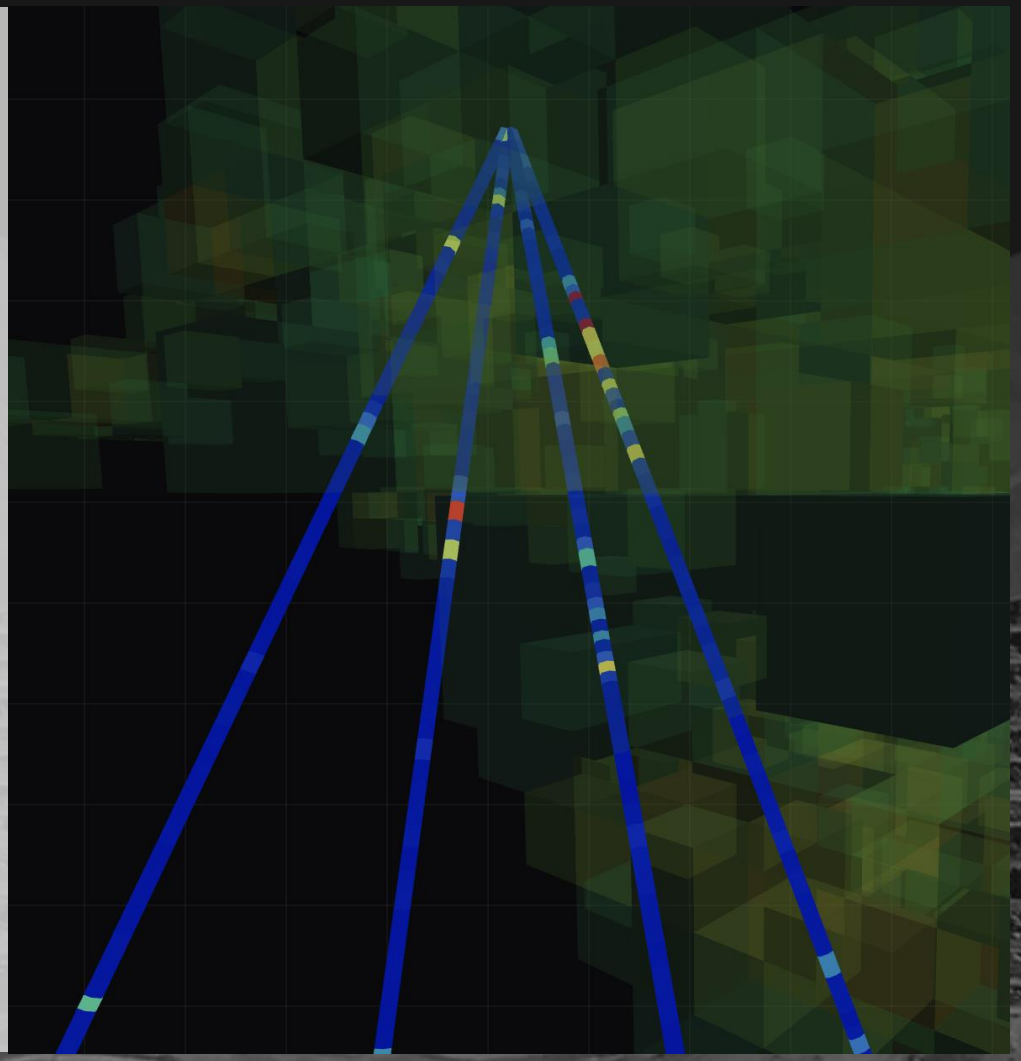
AI-guided drilling performance is evaluated based on three key criteria:

1. **DRILLHOLE HIT RATE:** A drillhole is considered a “hit” when it contains an intersection where the average grade over 5 meters exceeds the cut-off grade of 0.3 g/t. Over the past two years, 63% of drillholes have successfully intersected mineralization under this definition.

2. **DRILLHOLE MAX GRADE:** Drillhole performance is assessed based on the maximum assayed grade, with a median highest grade of 2.0 g/t recorded over the same period.

3. **RESOURCE VERIFIED:** Overall success is measured through verified mineralization, defined as the number of ounces confirmed with measured classification confidence as a result of the AI drilling program.



SAIGE MODEL RESULTS

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	AI MODEL	SITE'S 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	

CLUSTER 1

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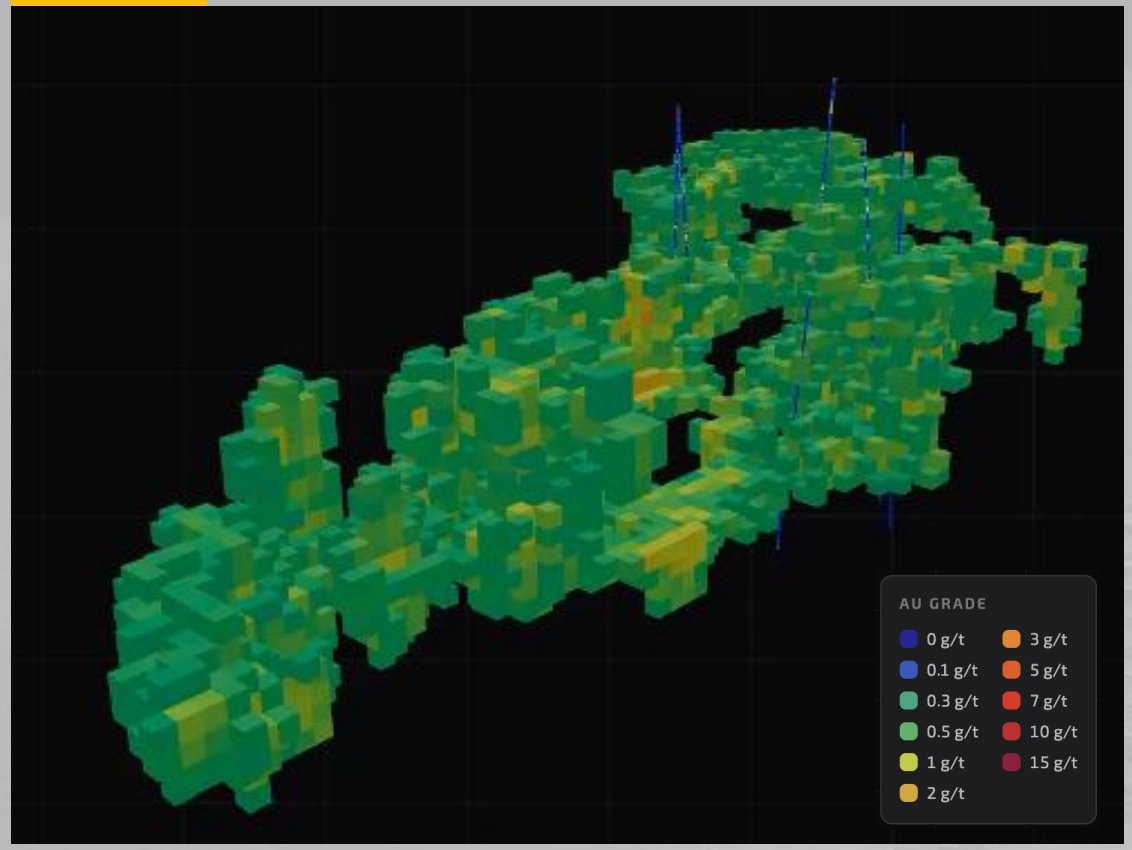
CLUSTER 1



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

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)

CLUSTER 1

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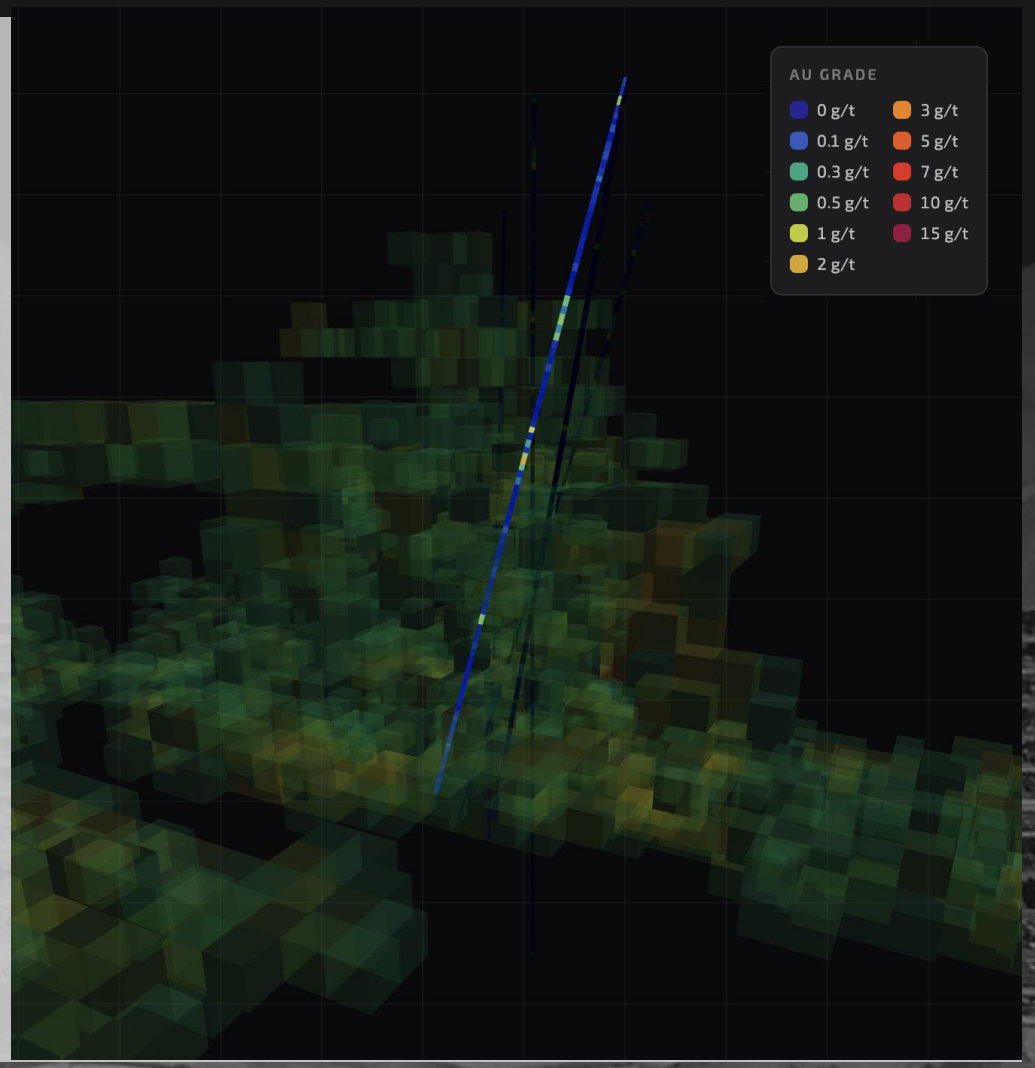
DH001

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



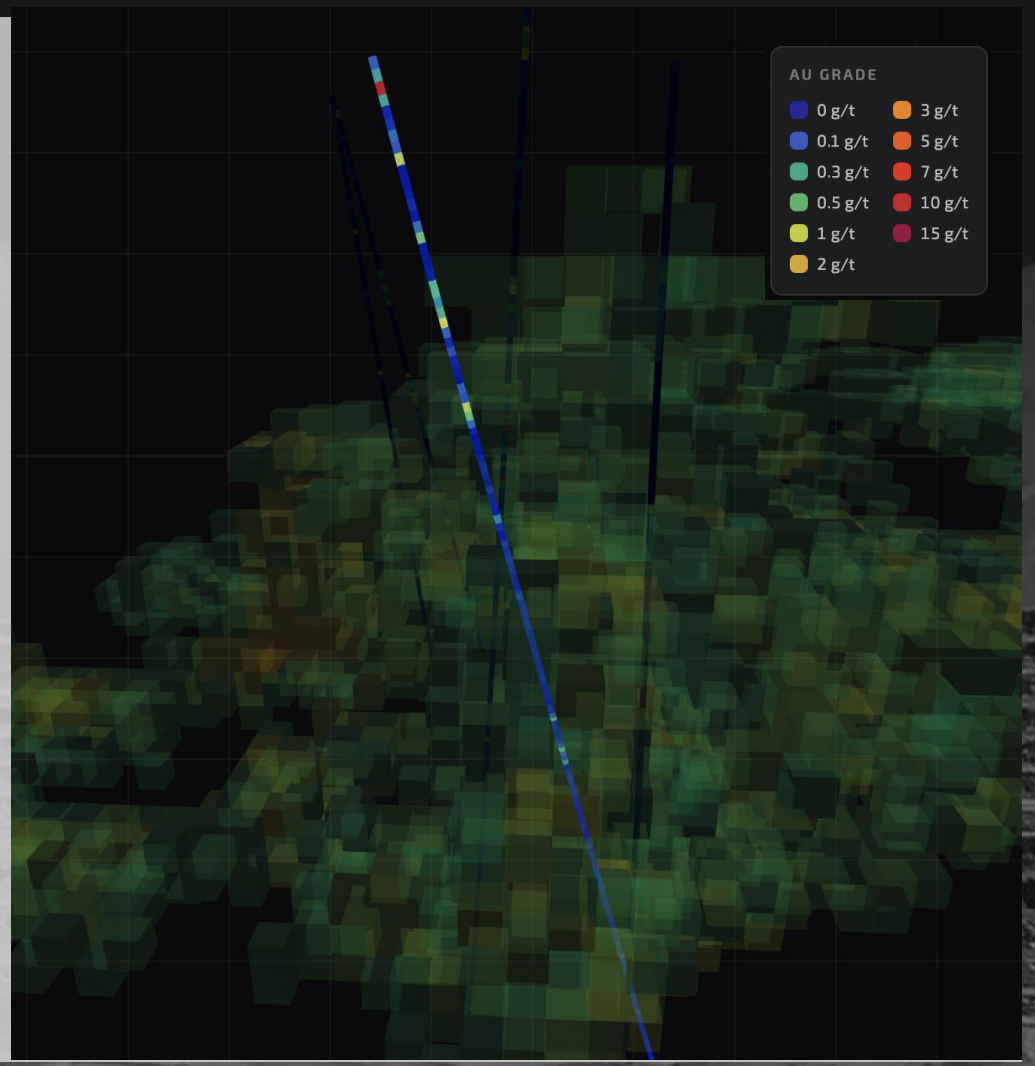
CLUSTER 1

STRATUM AI

DH002

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



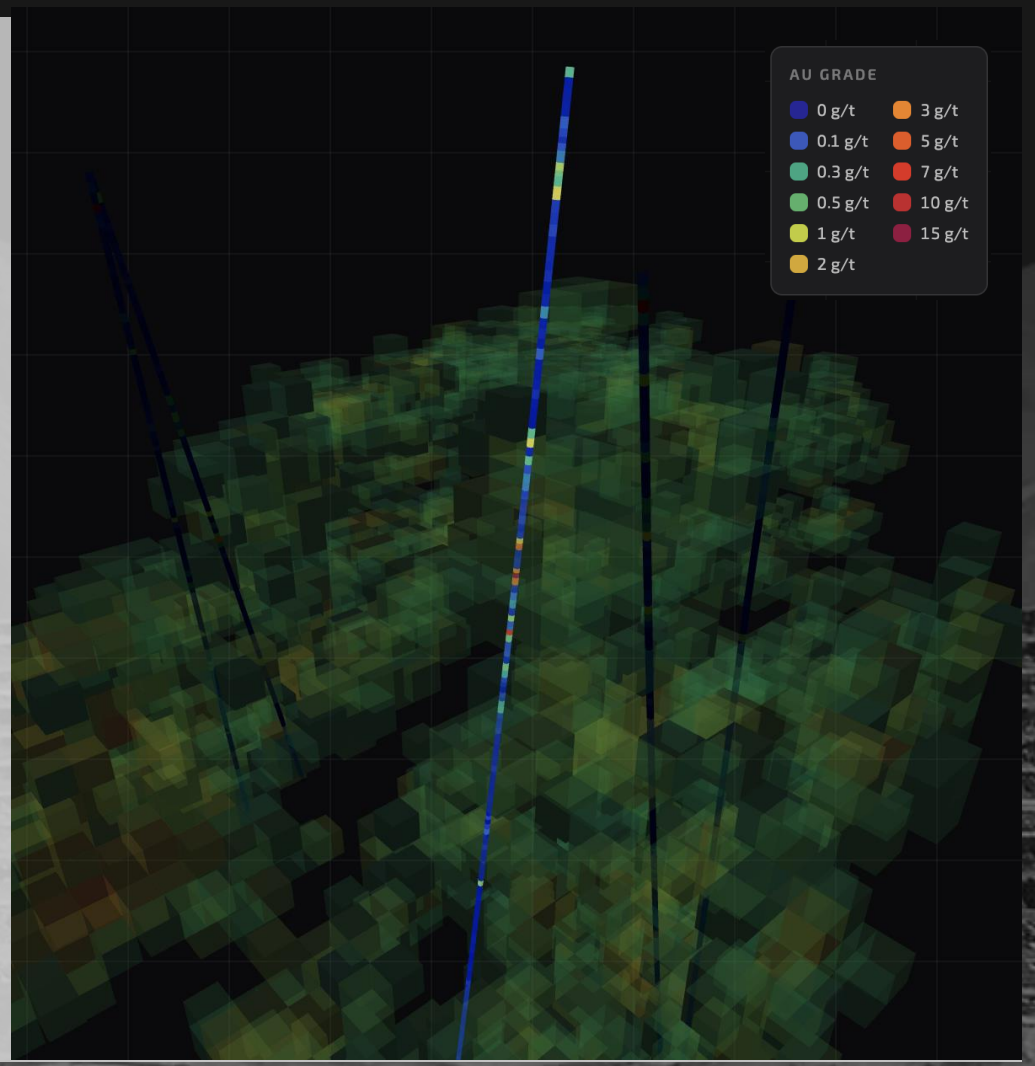
CLUSTER 1

STRATUM AI

DH003

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



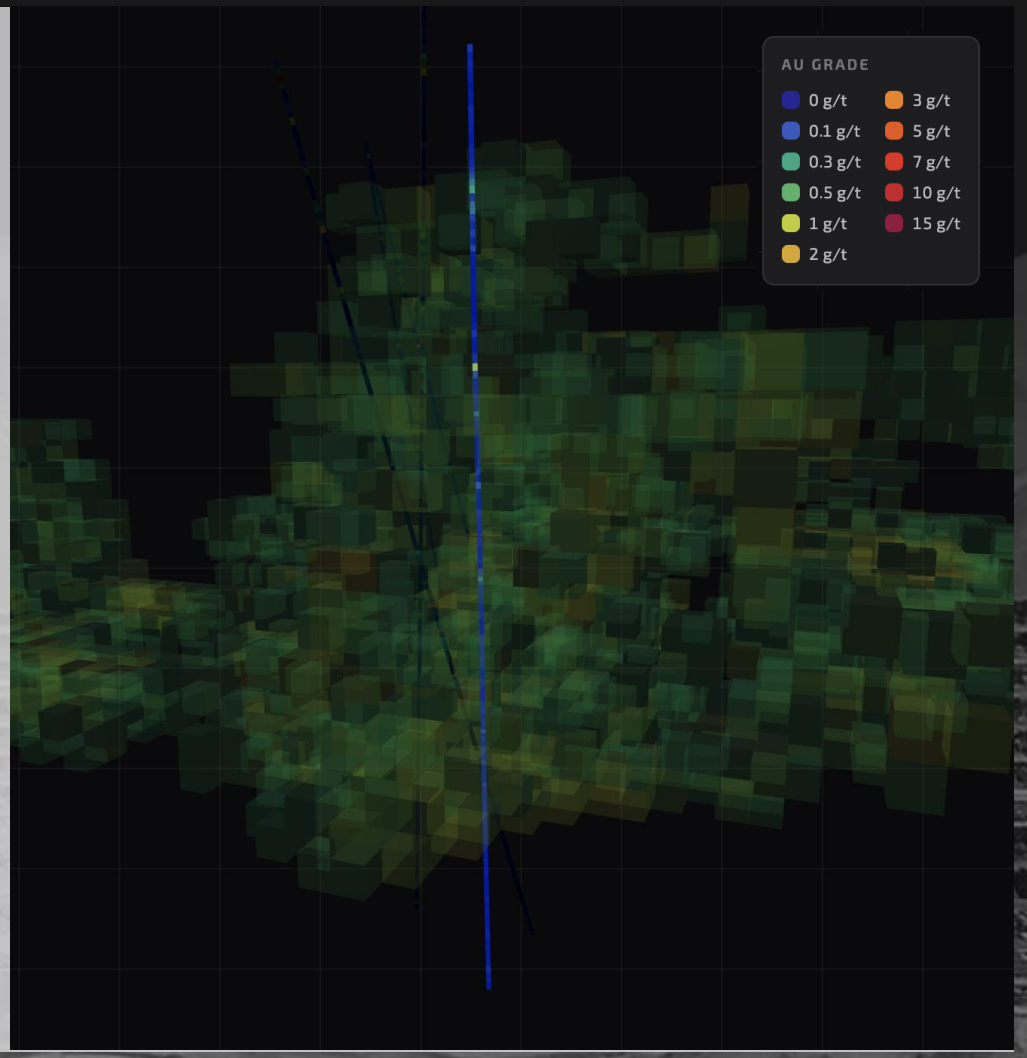
CLUSTER 1

STRATUM AI

DH004

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



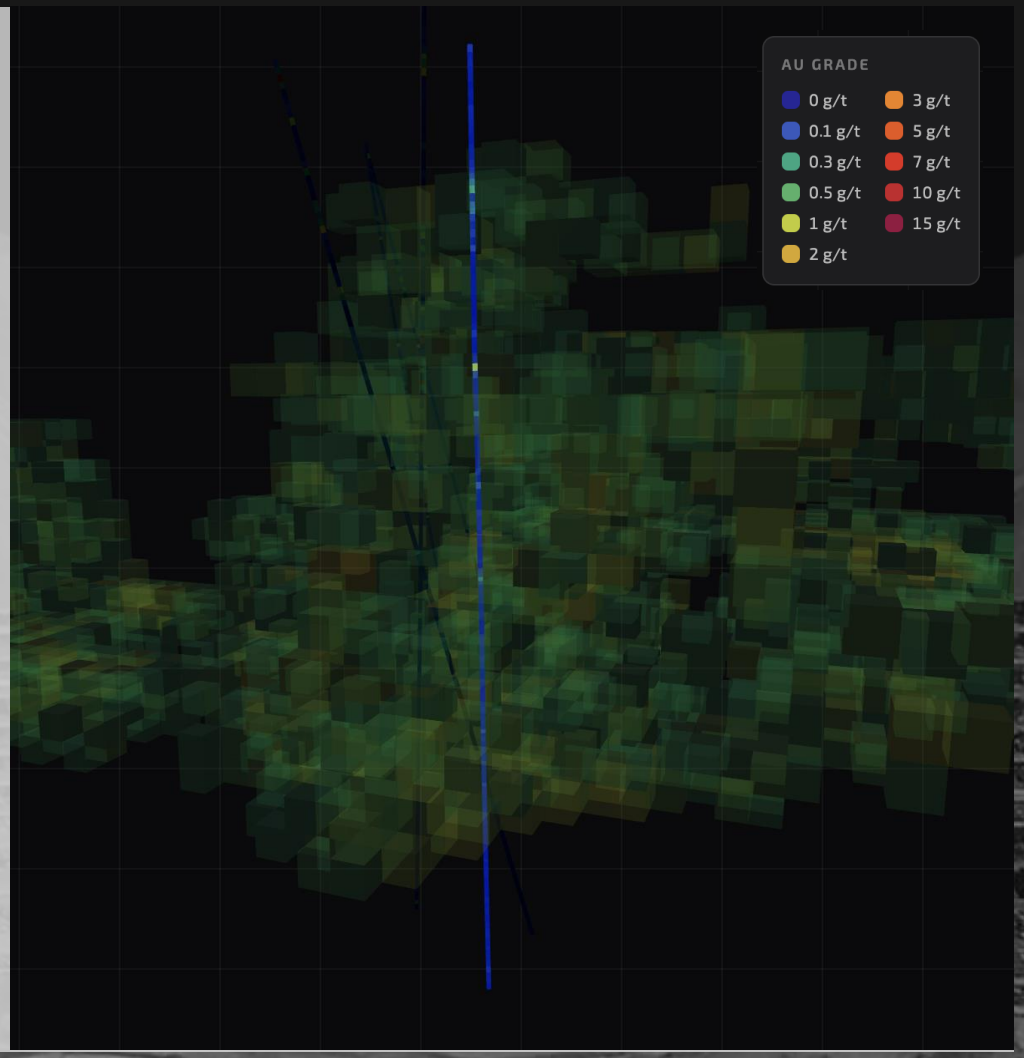
CLUSTER 1

STRATUM AI

DH005

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

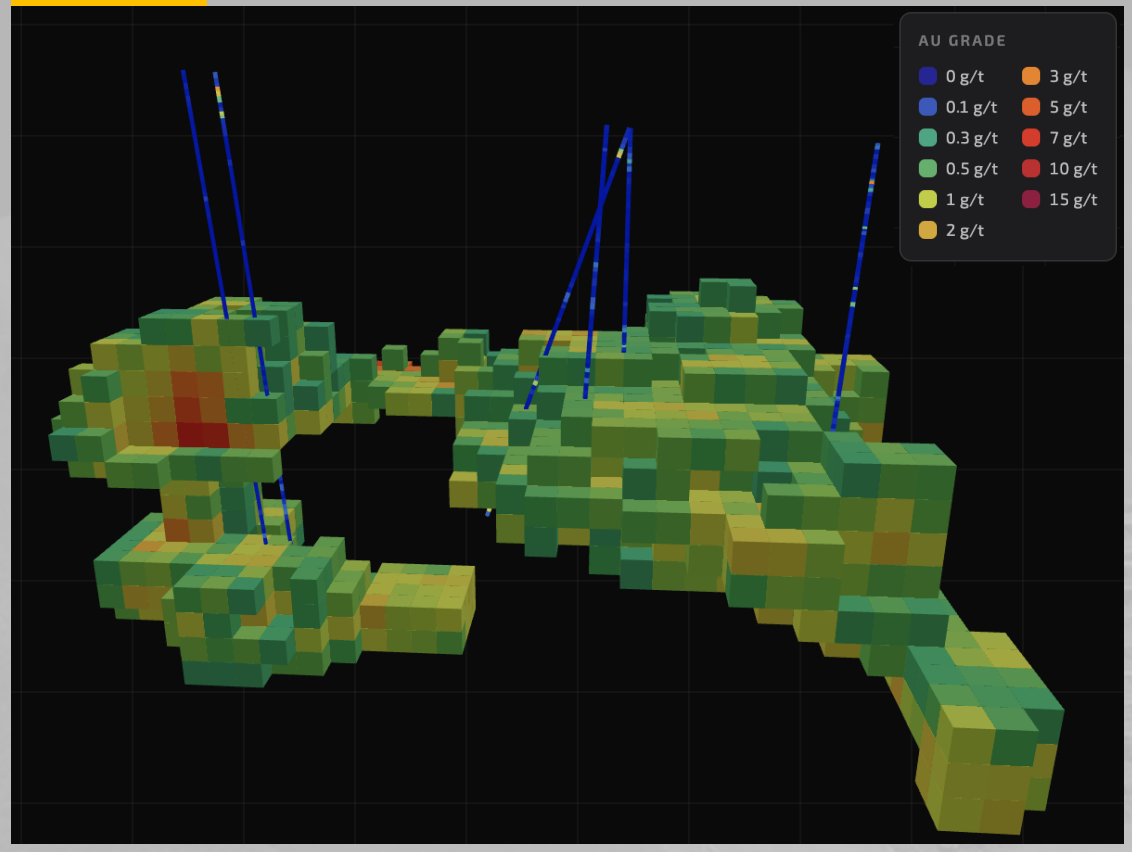
DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
0	1	1	94		0.077
1	2	1	99.67		0.149
2	3	1	99.67		0.034
3	**4**	**1**	**99.67**		**11.25**
4	4.7	0.7	99.67		0.094
4.7	5.4	0.7	99.67		0.118
5.4	6.3	0.9	99.67		0.038
6.3	7.3	1	98.97		0.027
7.3	8.3	1	97.33		0.043
8.3	9.3	1	97.33		0.014
9.3	10.3	1	97.93		0.045
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



CLUSTER 2

STRATUM AI

CLUSTER 2



3.5k ounces verified with measured confidence.

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)

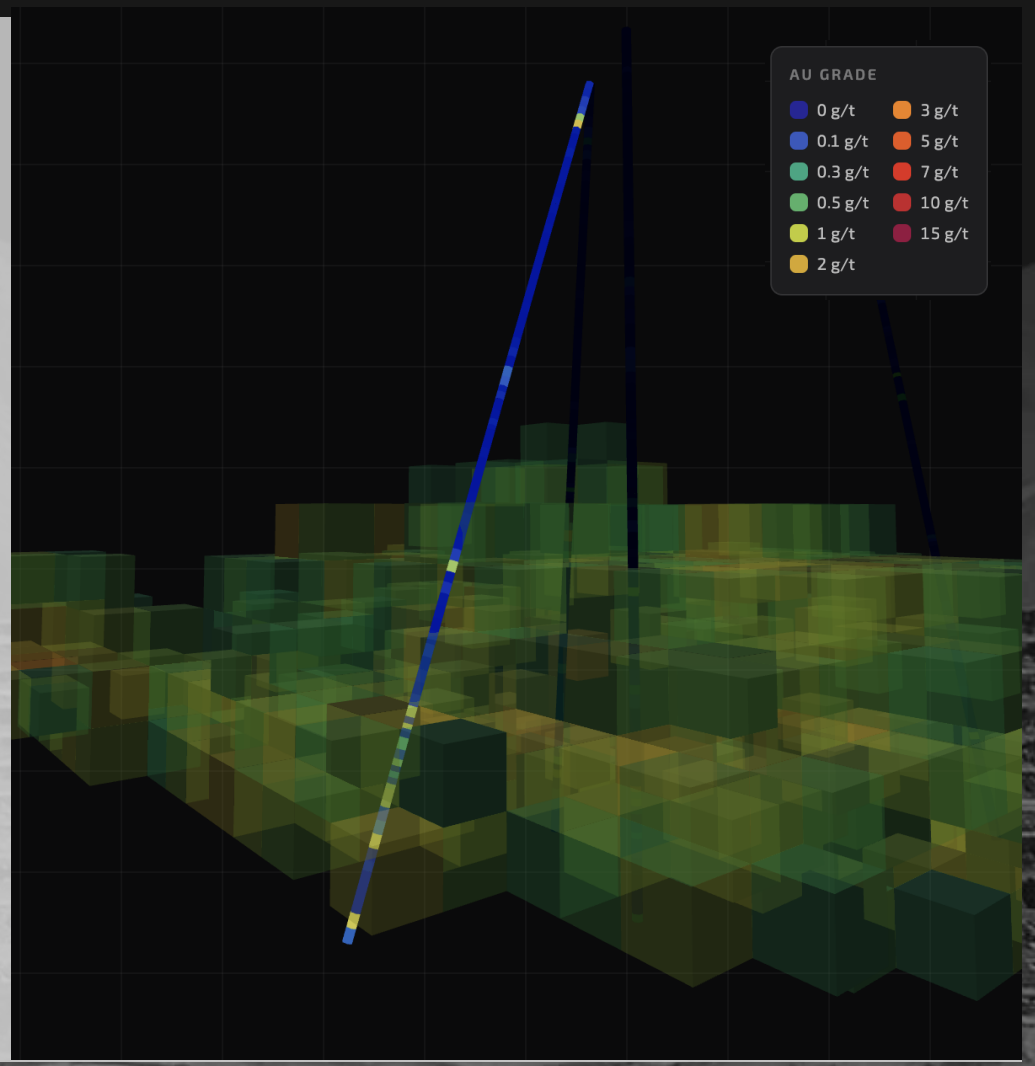
CLUSTER 2

STRATUM AI

DH006

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



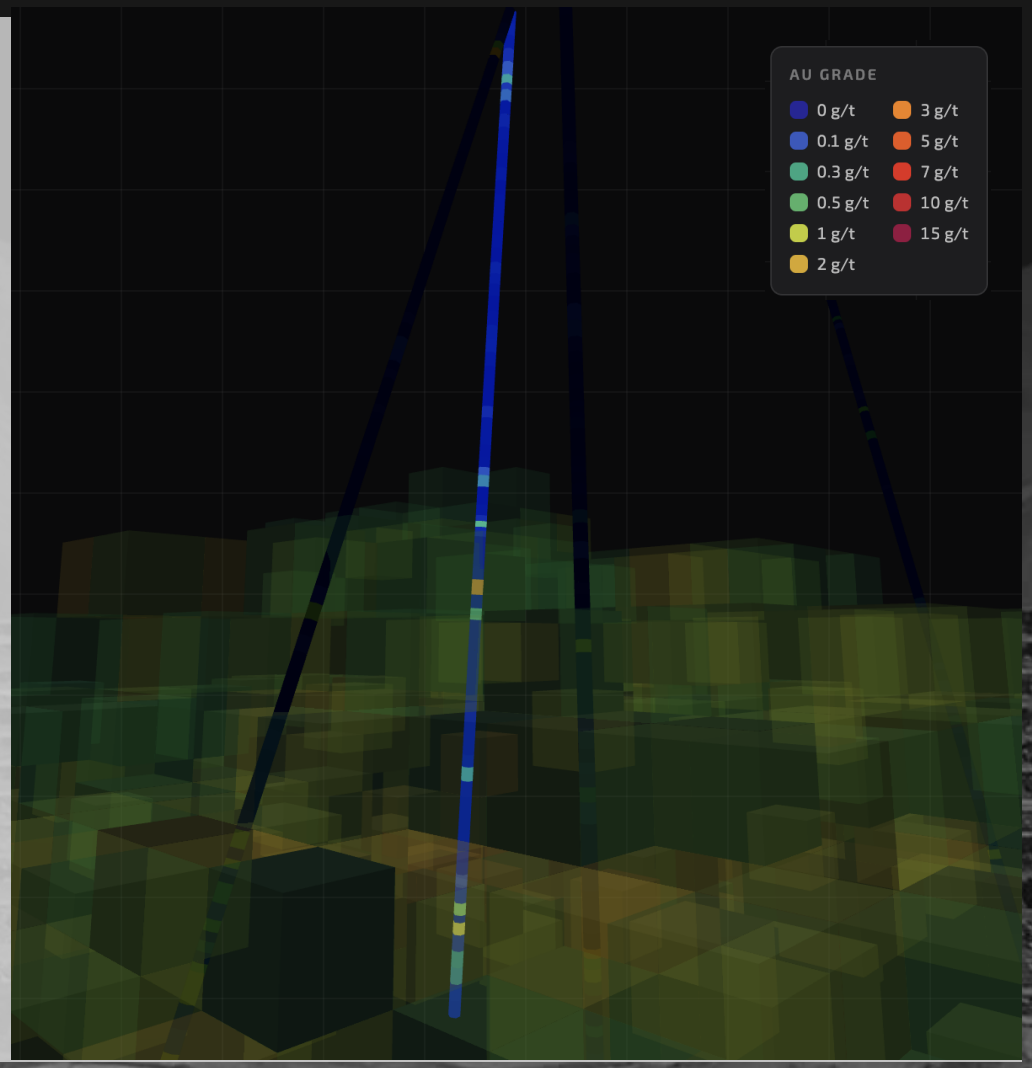
CLUSTER 2

STRATUM AI

DH007

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



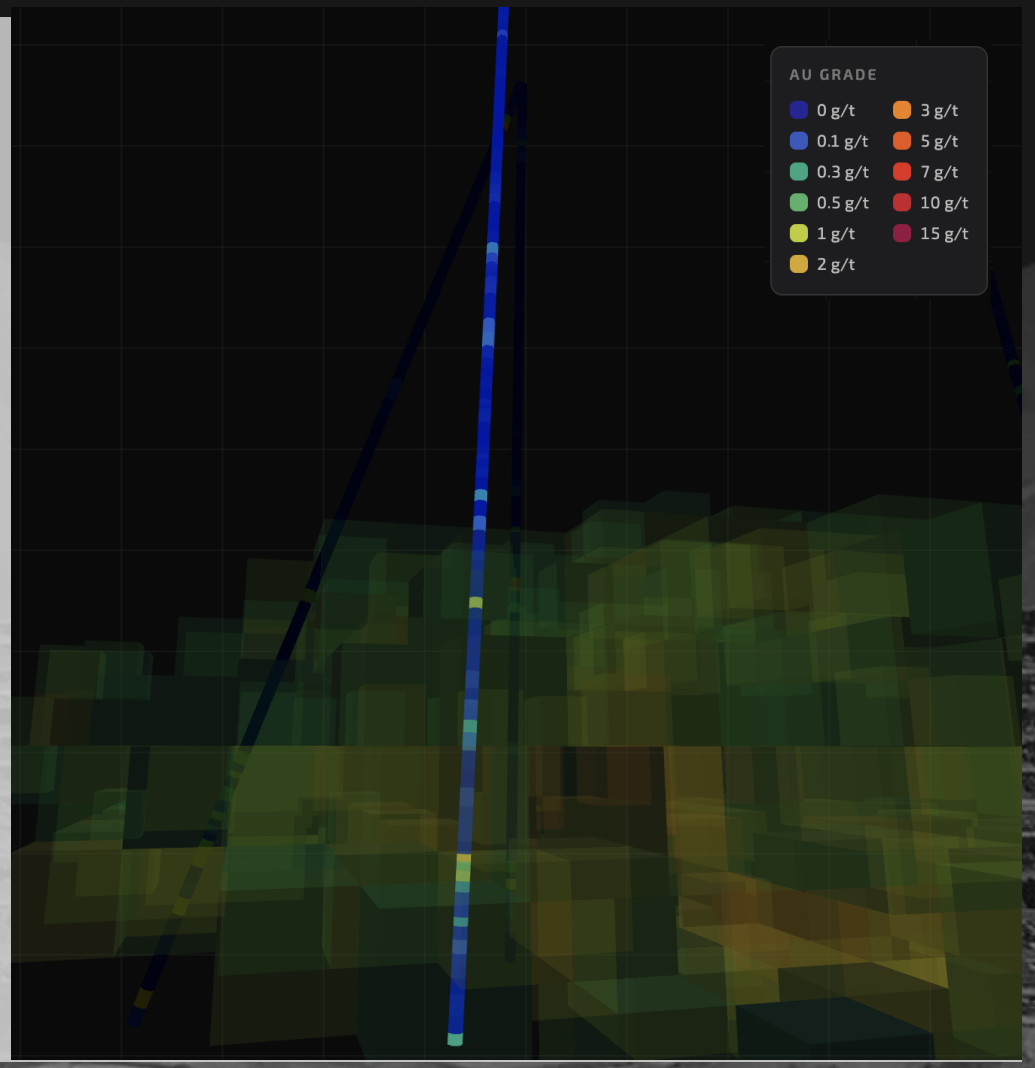
CLUSTER 2

STRATUM AI

DH008

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



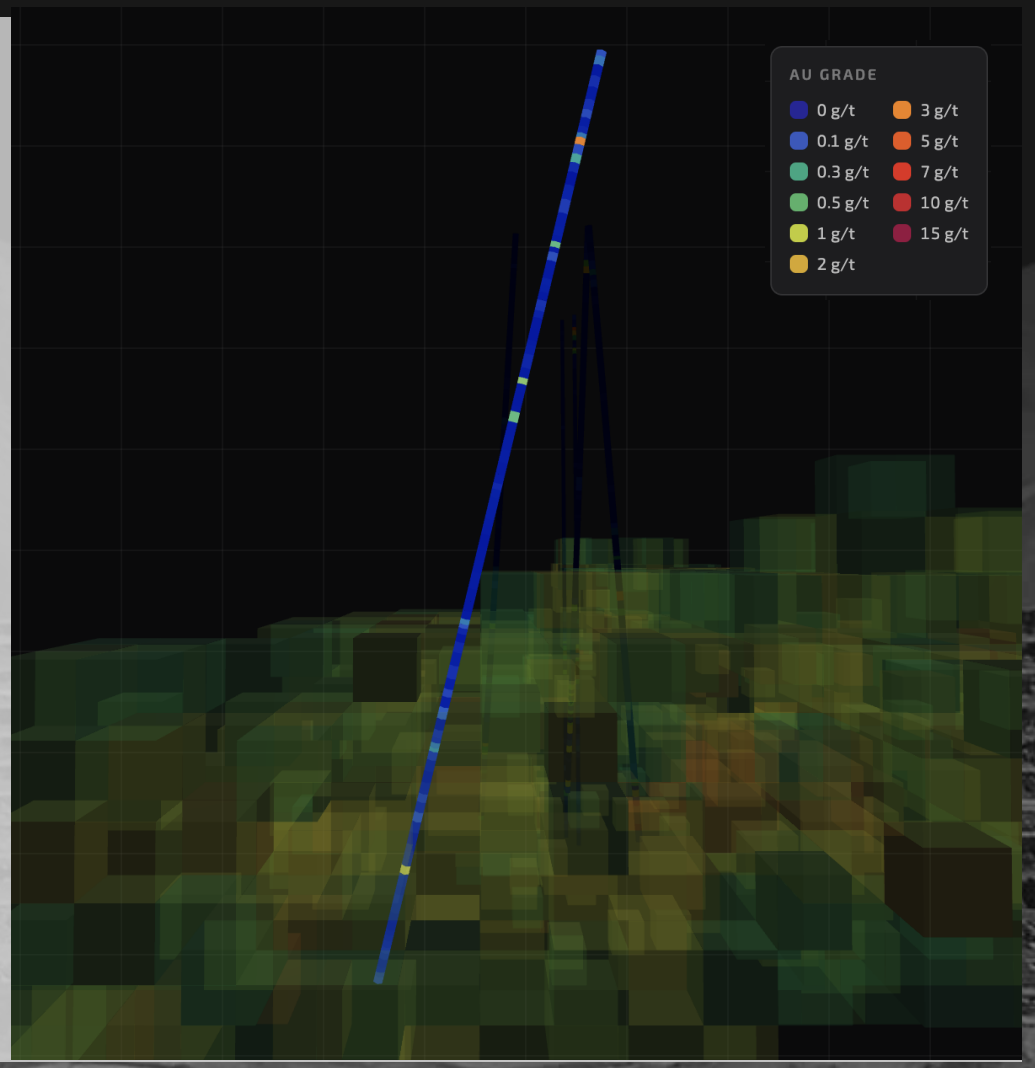
CLUSTER 2

STRATUM AI

DH009

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



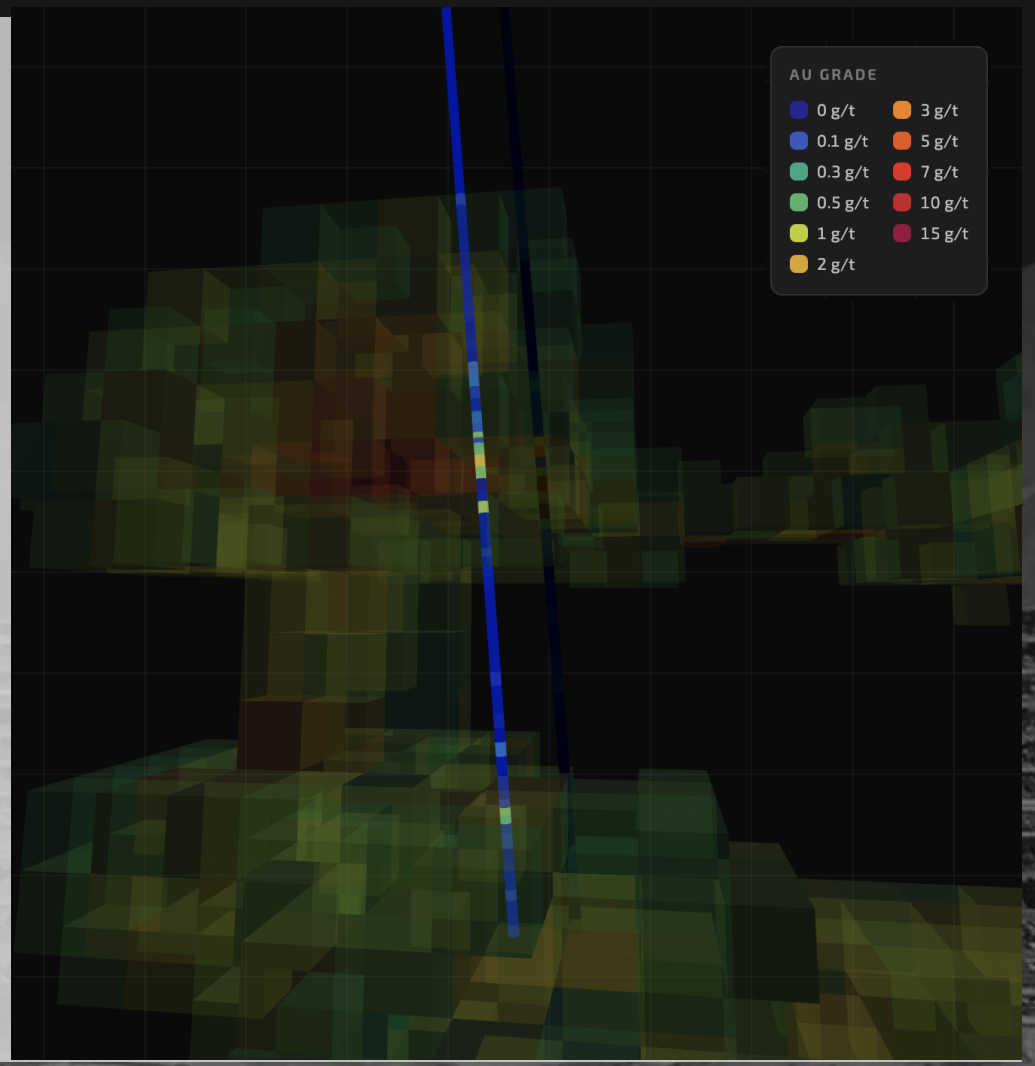
CLUSTER 2

STRATUM AI

DH010

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



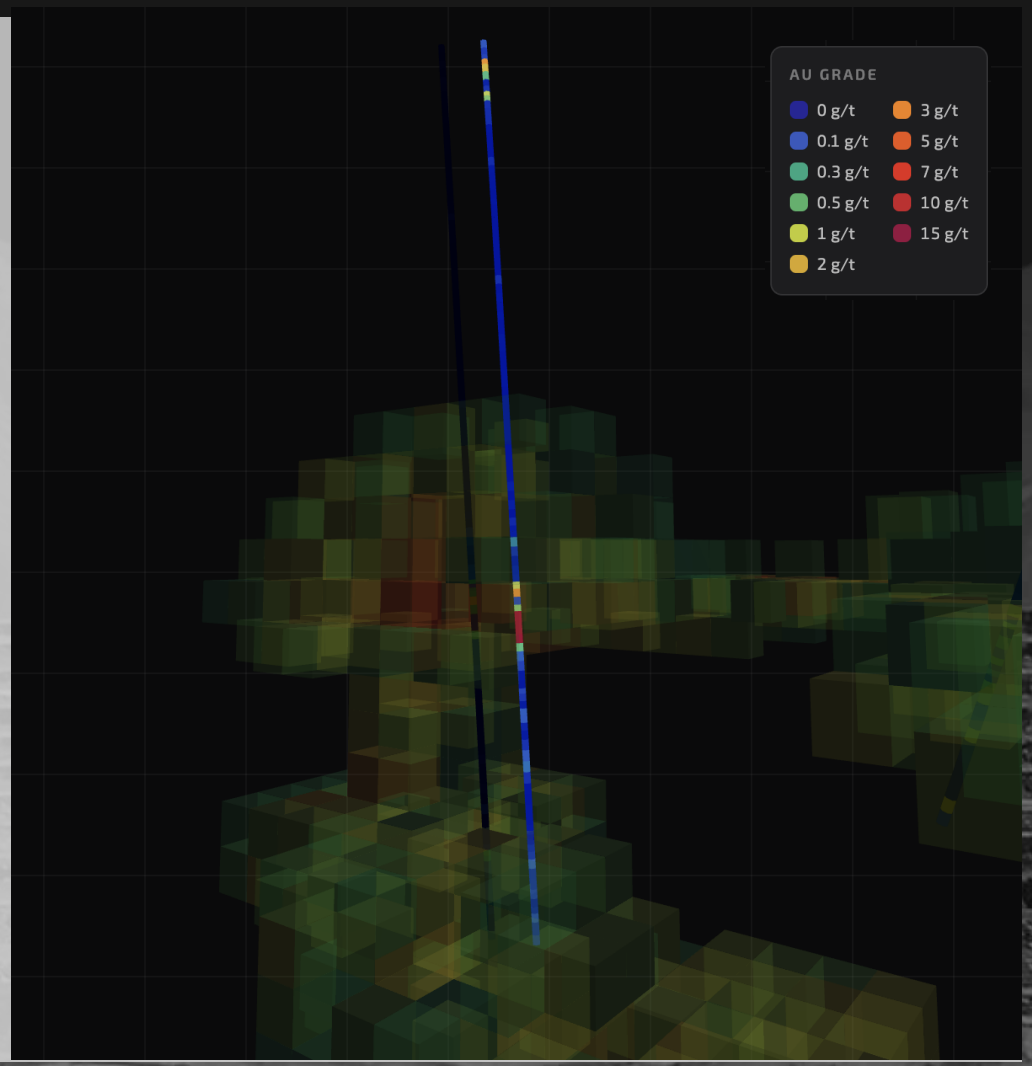
CLUSTER 2

STRATUM AI

DH011

DH011: 2 hits at 2-9m, 58-71m max grade 38.4g/T at 66m

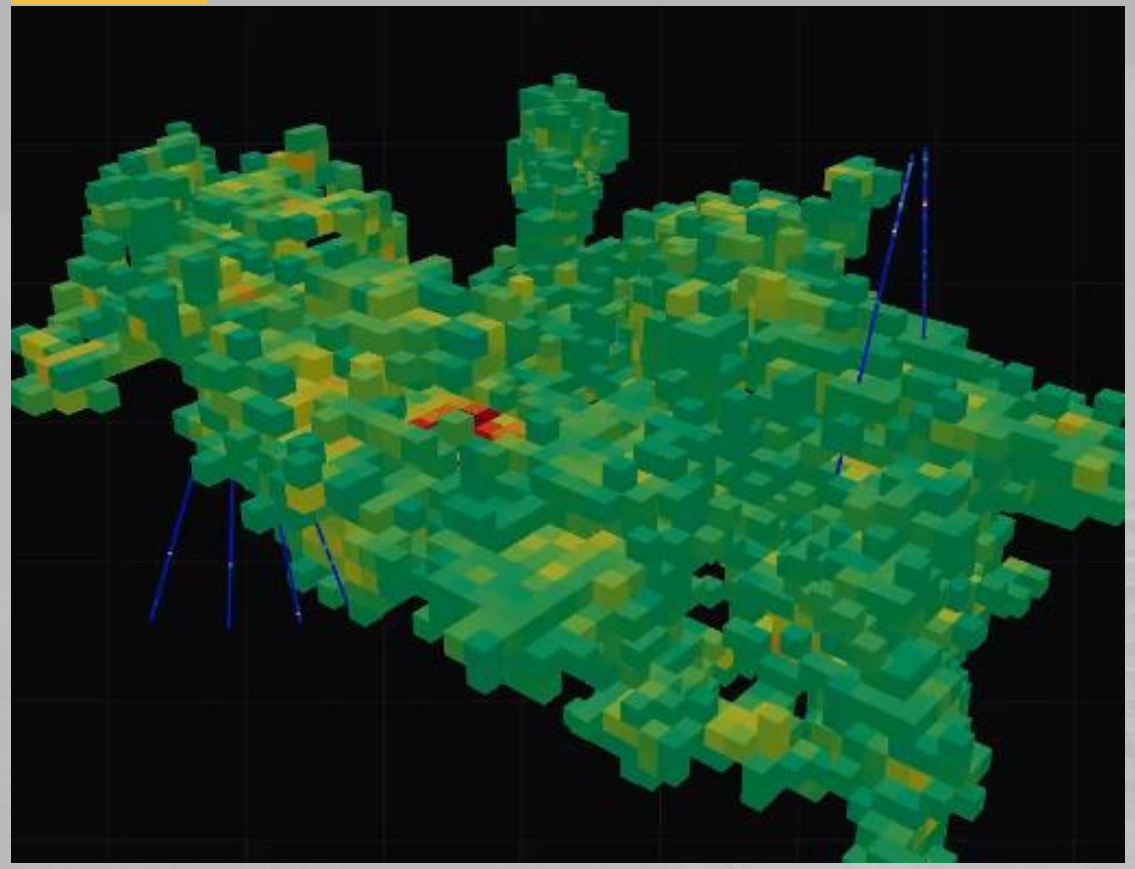
FROM	TO	LENGTH	CORE OUTPUT	WEIGHT	AU
57.7	58	0.3	93.33		0.018
58	59	1	93.33		0.189
59	60	1	93.33		0.045
60	61	1	97.67		0.009
61	62	1	97.67		0.021
62	62.95	0.95	97.67		0.024
62.95	63.5	0.55	97.67		0.953
63.5	64.45	0.95	95.26		3.49
64.45	65.2	0.75	93.33		0.078
65.2	66.1	0.9	93.75		0.577
66.1	**66.55**	**0.45**	**97.67**		**38.4**
66.55	67	0.45	97.67		21.9
69.3	70	0.7	97.67		0.433
70	71	1	95.26		0.116
71	72	1	93.33		0.071
72	73	1	93.33		0.013



CLUSTER 3

STRATUM AI

CLUSTER 3



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

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)

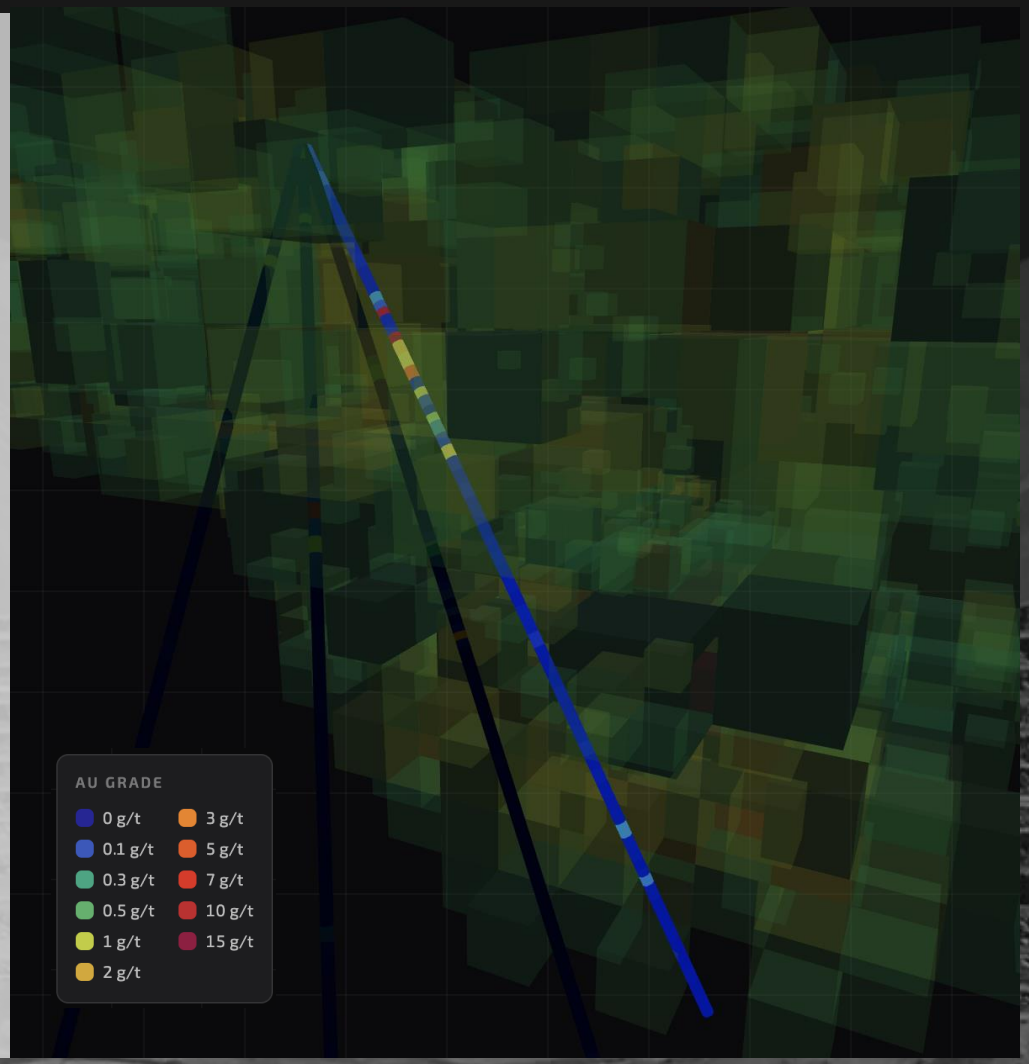
CLUSTER 3

STRATUM AI

DH012

DH012: 1 hit at 11-23m max grade 22.6g/T at 12m

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



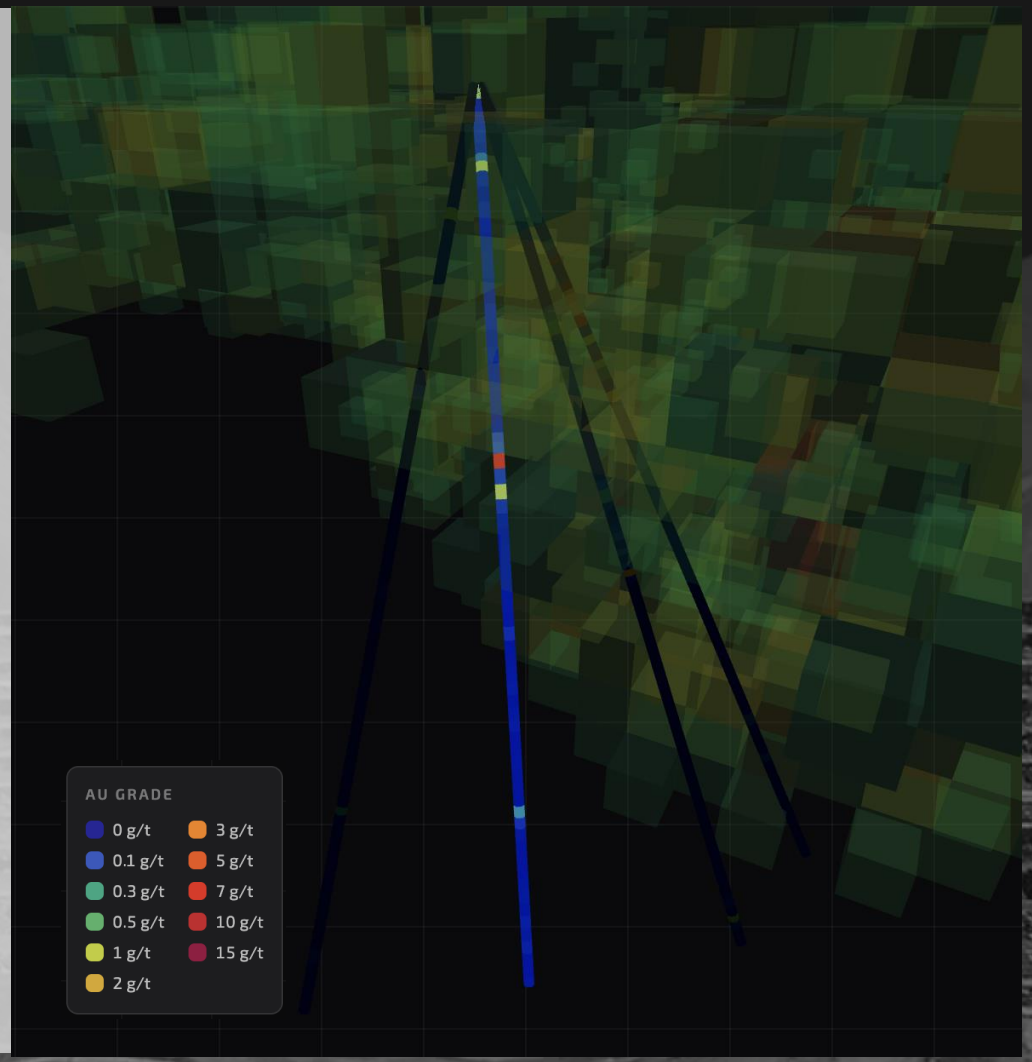
CLUSTER 3

STRATUM AI

DH013

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



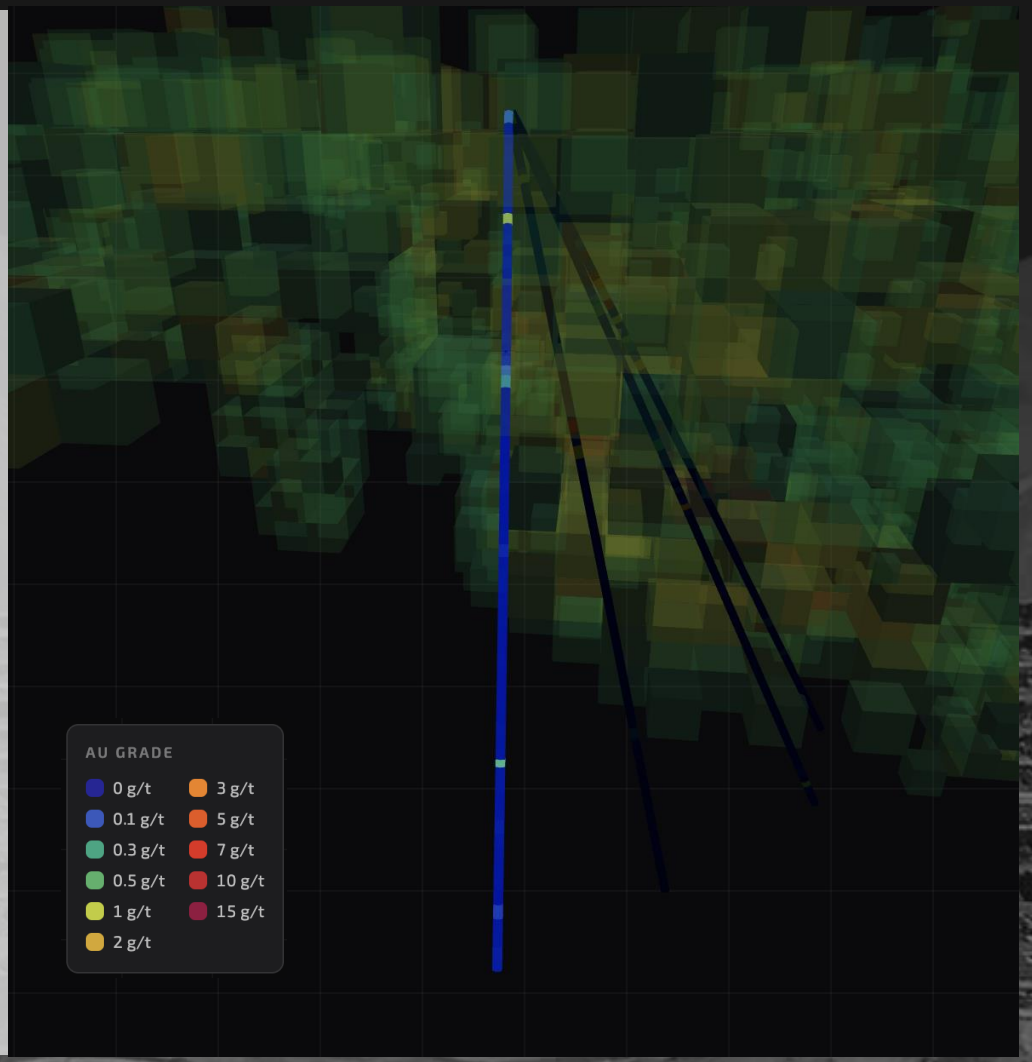
CLUSTER 3

STRATUM AI

DH014

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



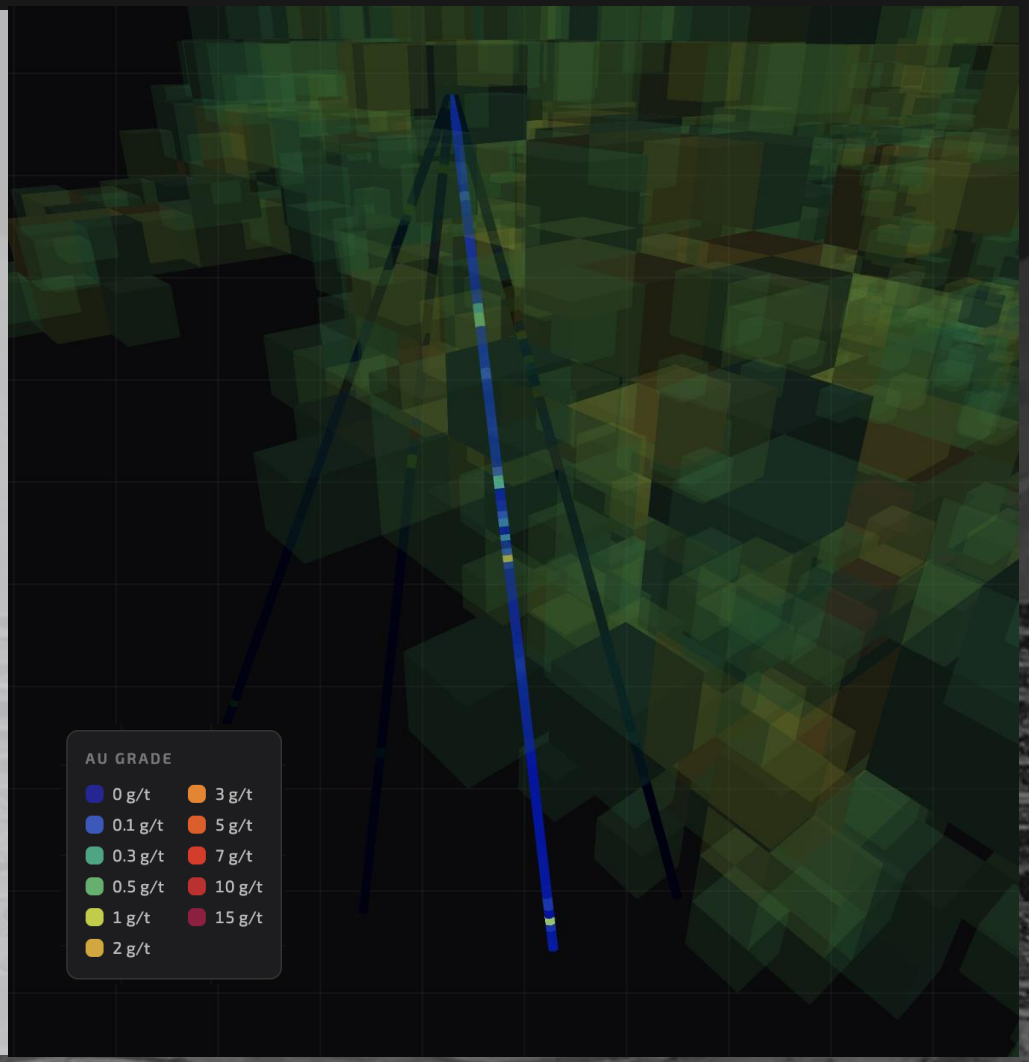
CLUSTER 3

STRATUM AI

DH015

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



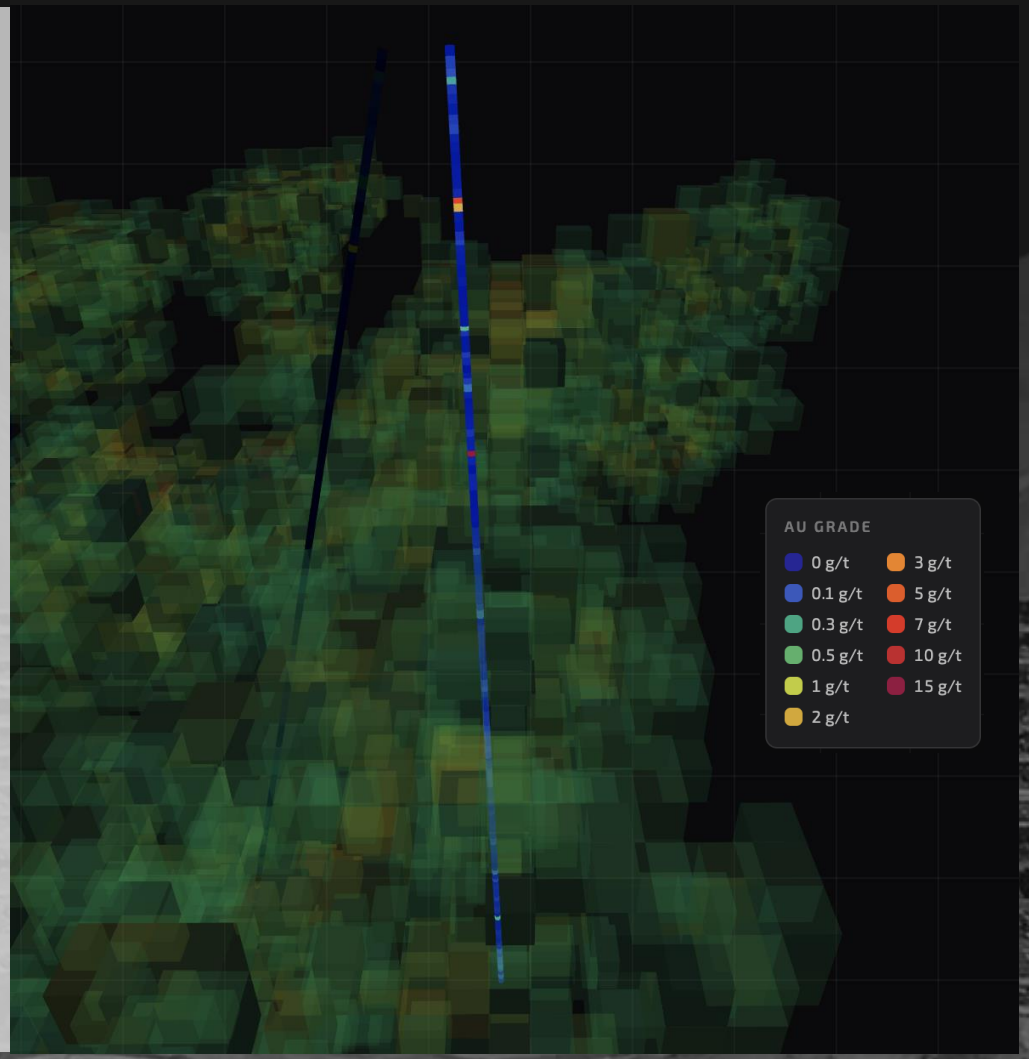
CLUSTER 3

STRATUM AI

DH023

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



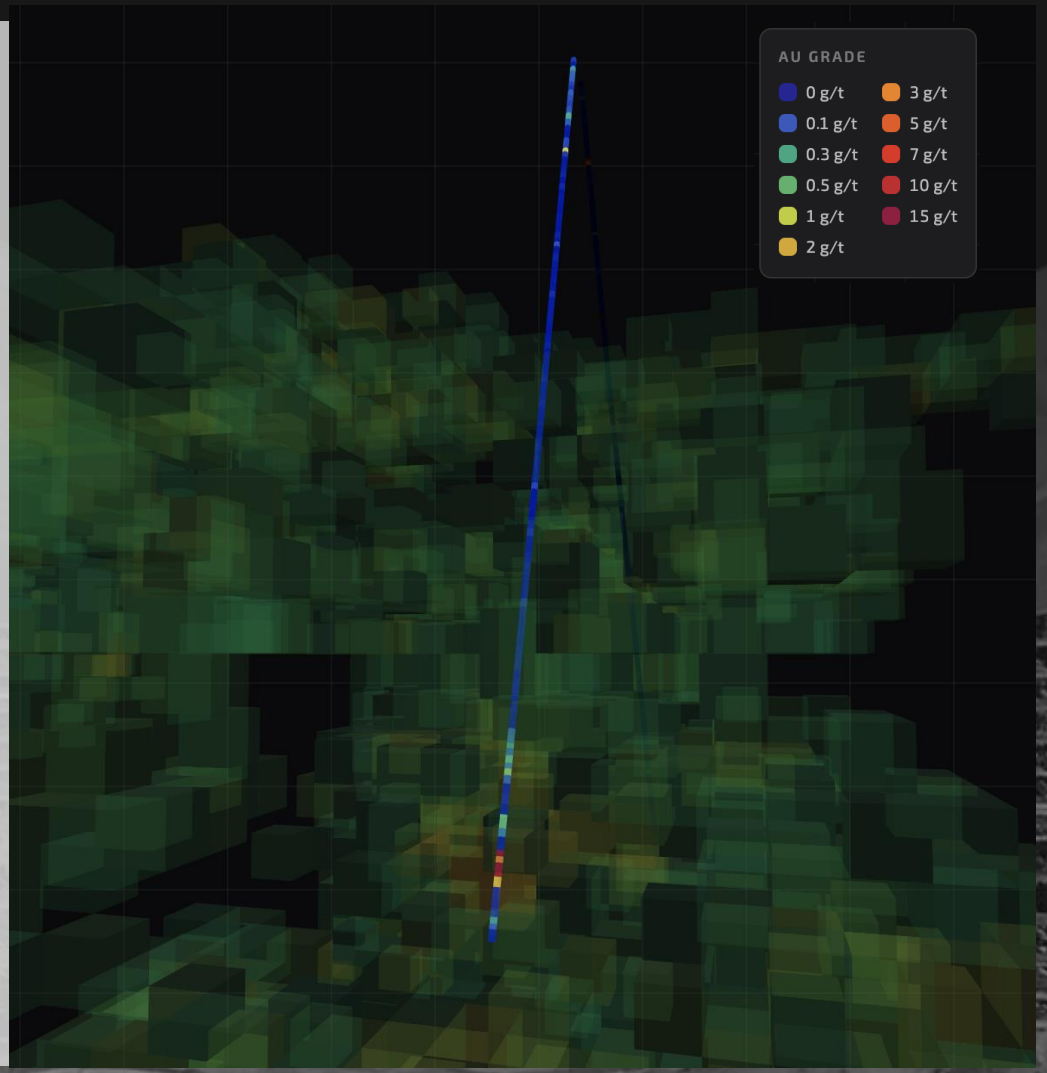
CLUSTER 3

STRATUM AI

DH024

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

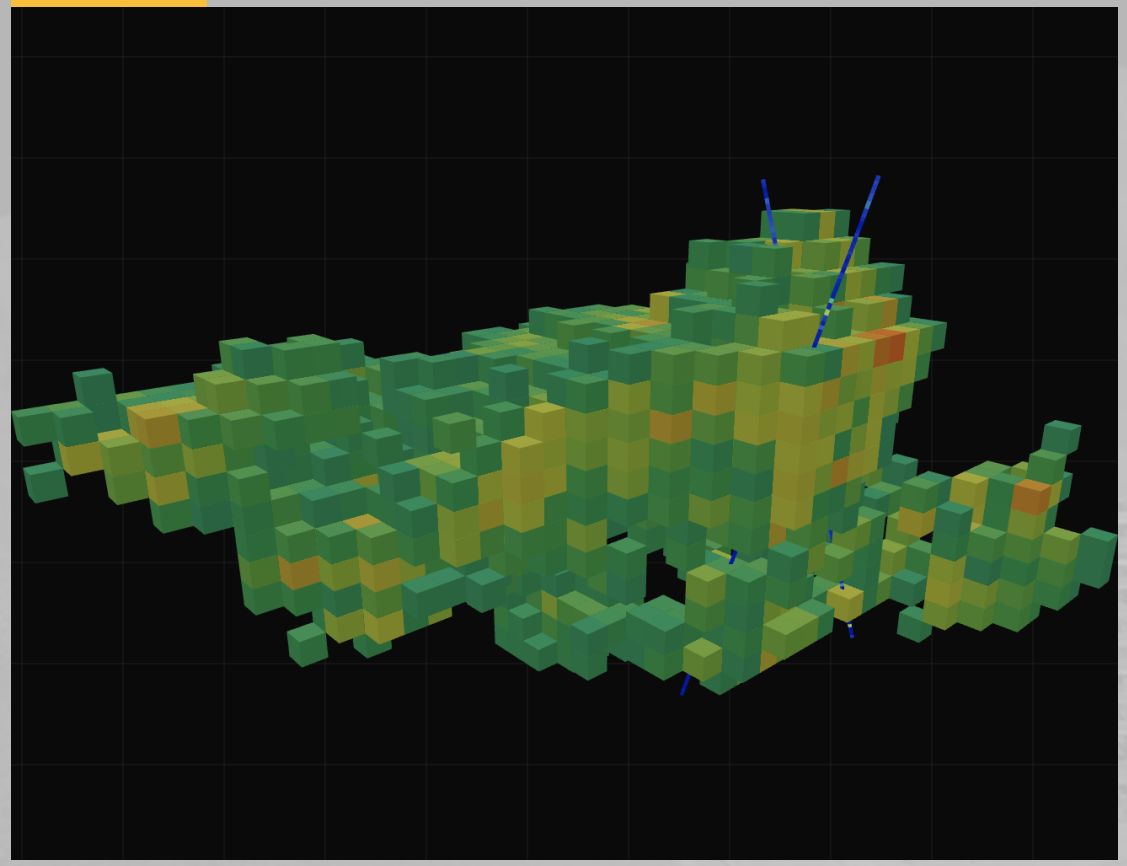
DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
94.25	94.9	0.65	100		0.264
94.9	95.4	0.5	100		0.137
95.4	96.4	1	100		0.303
96.4	97	0.6	100		0.178
97	97.6	0.6	98.67		0.553
97.6	98.4	0.8	98.67		0.111
98.4	99.4	1	98.67		0.021
99.4	100.4	1	99.07		0.034
100.4	101.6	1.2	99.67		0.012
101.6	102.6	1	99.67		0.437
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



CLUSTER 4

STRATUM AI

CLUSTER 4



2k ounces verified with indicated confidence.

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)

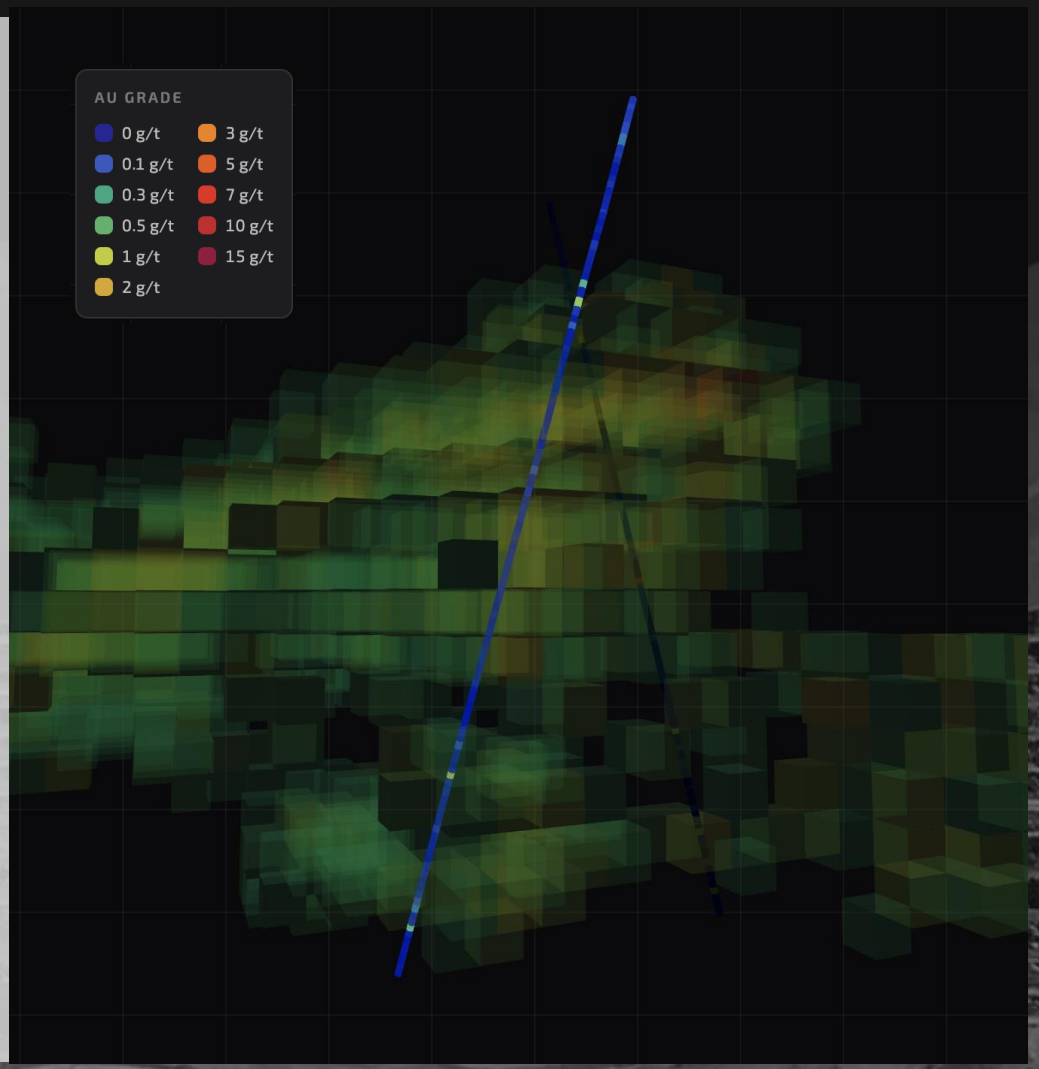
CLUSTER 4

STRATUM AI

DH016

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



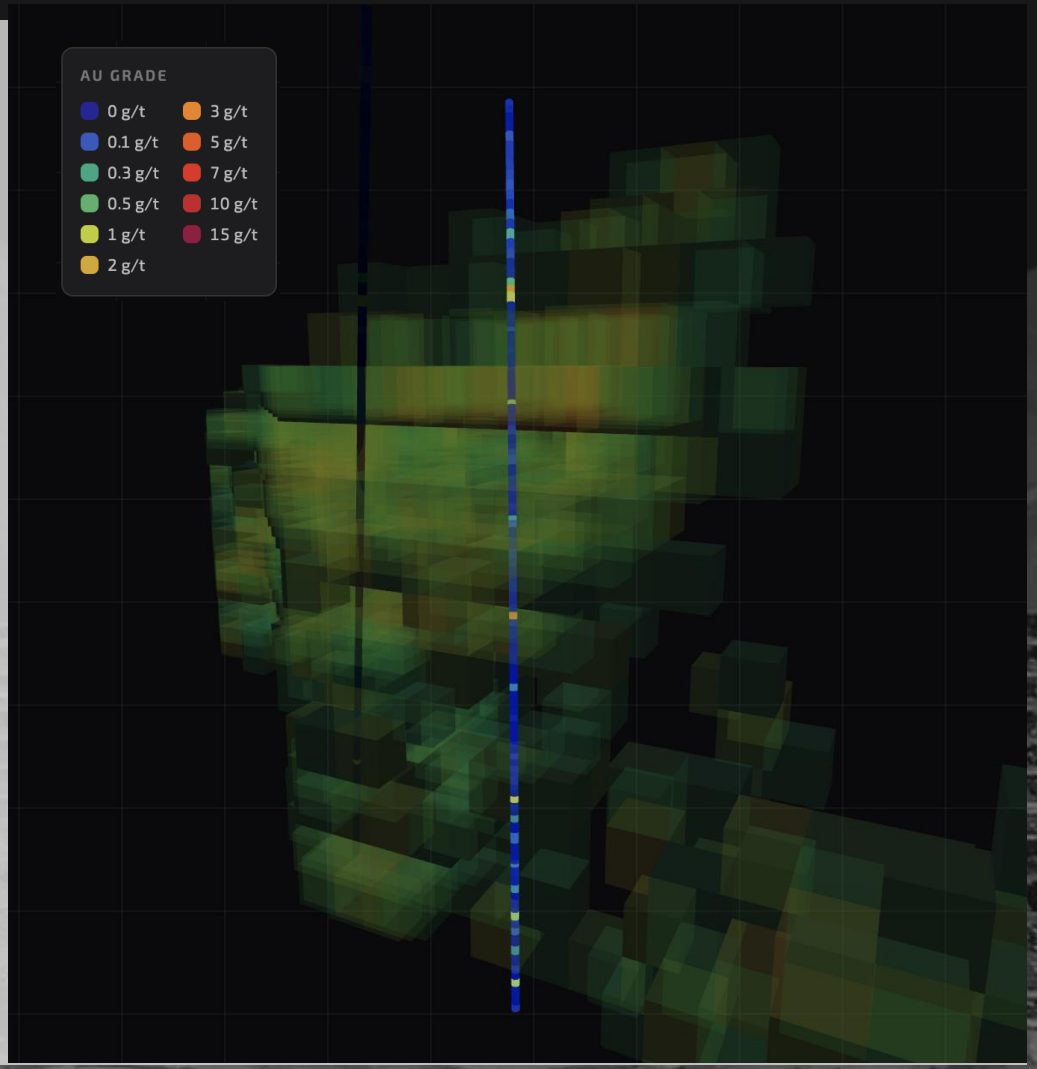
CLUSTER 4

STRATUM AI

DH018

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

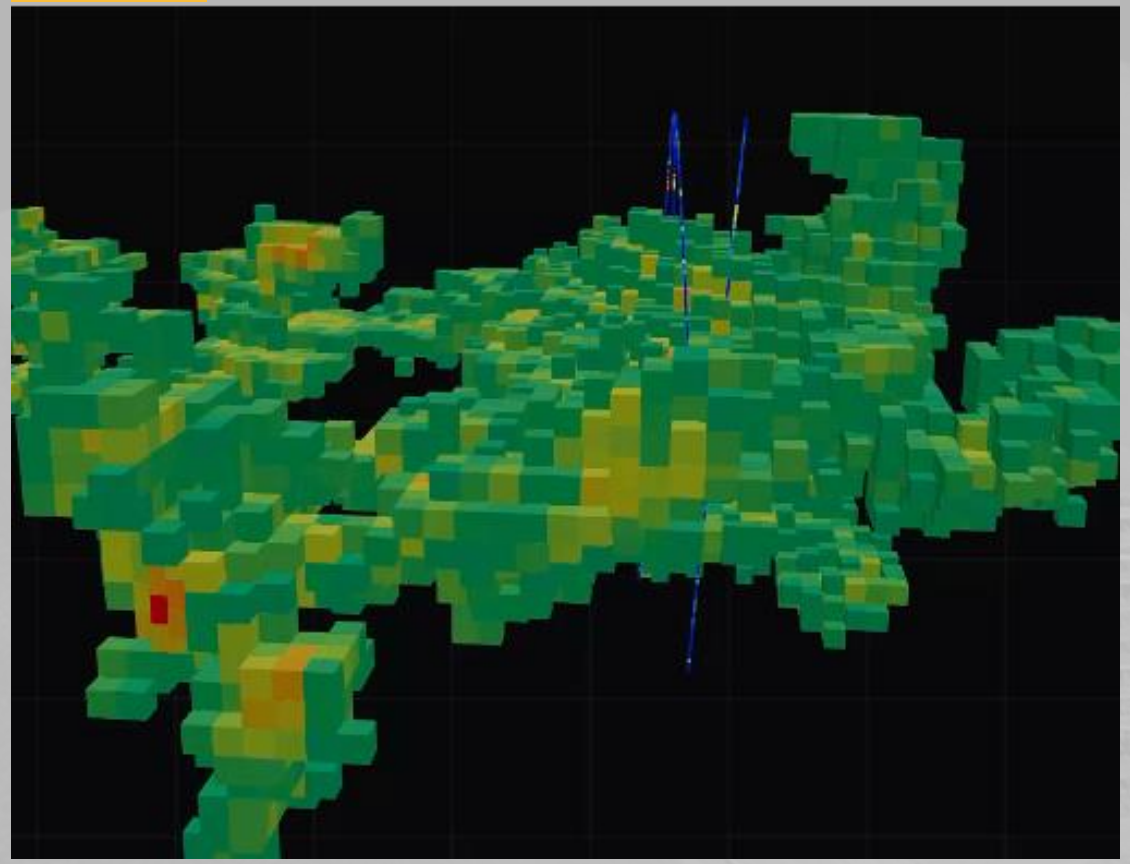
DEPTH_FROM	DEPTH_TO	LENGTH	CORE OUTPUT	WEIGHT	AU
17	18	1	98.33	3.28	0.034
18	19	1	98.33	3.47	0.394
19	**19.4**	**0.4**	**93.33**	**1.49**	**2.82**
19.4	20.4	1	93.33	3.66	1.1
20.4	21.4	1	93.33	3.72	0.019
21.4	22.4	1	94	4.02	0.012



CLUSTER 6

STRATUM AI

CLUSTER 6



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

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)

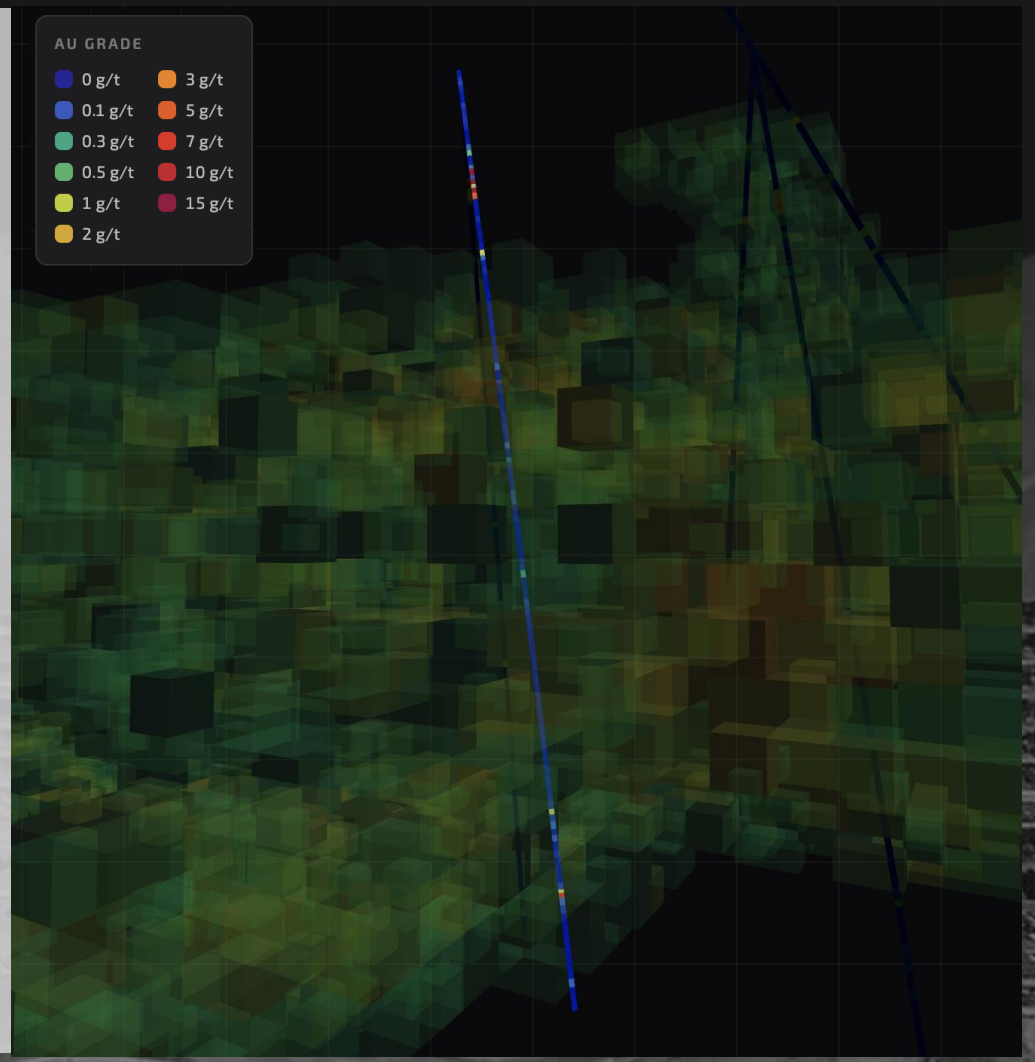
CLUSTER 6

STRATUM AI

DH025

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
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



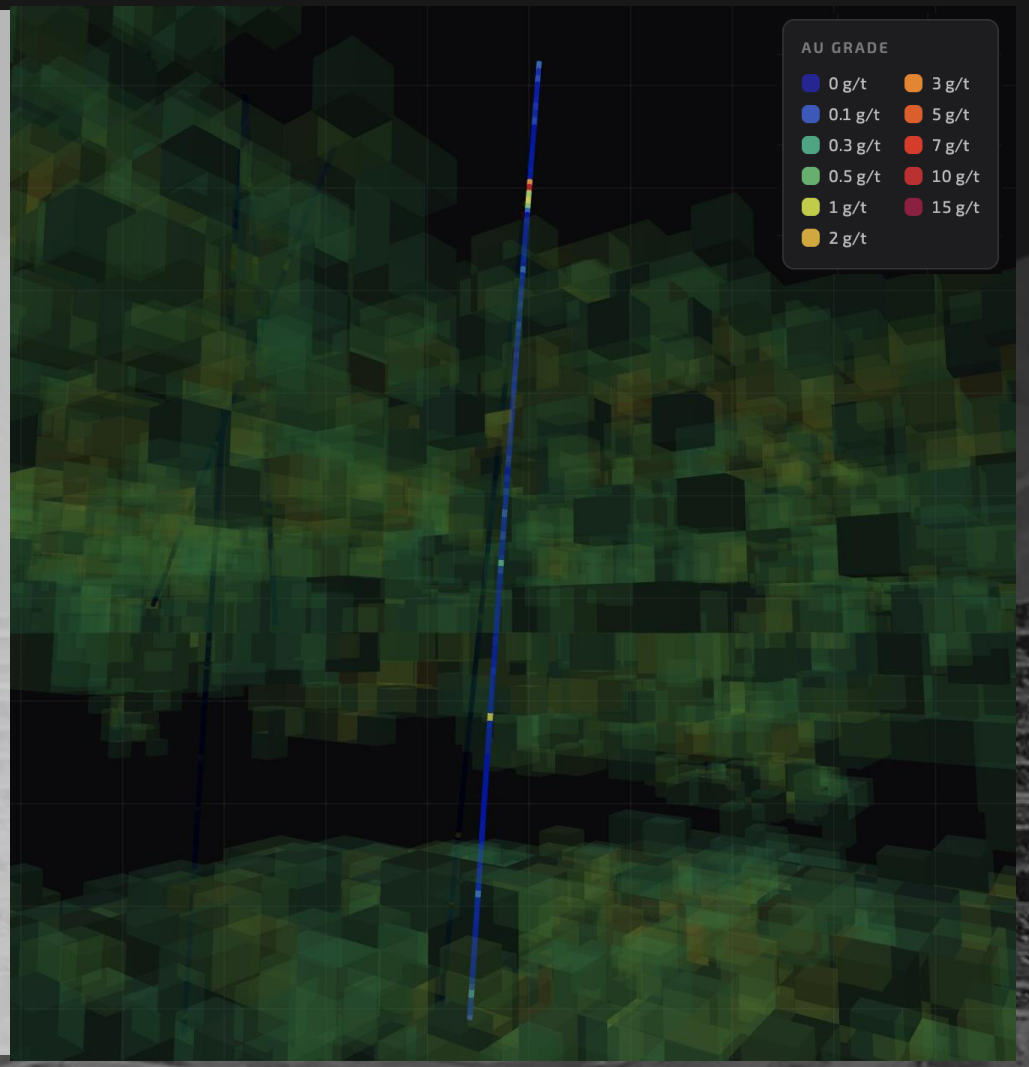
CLUSTER 6

STRATUM AI

DH027

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



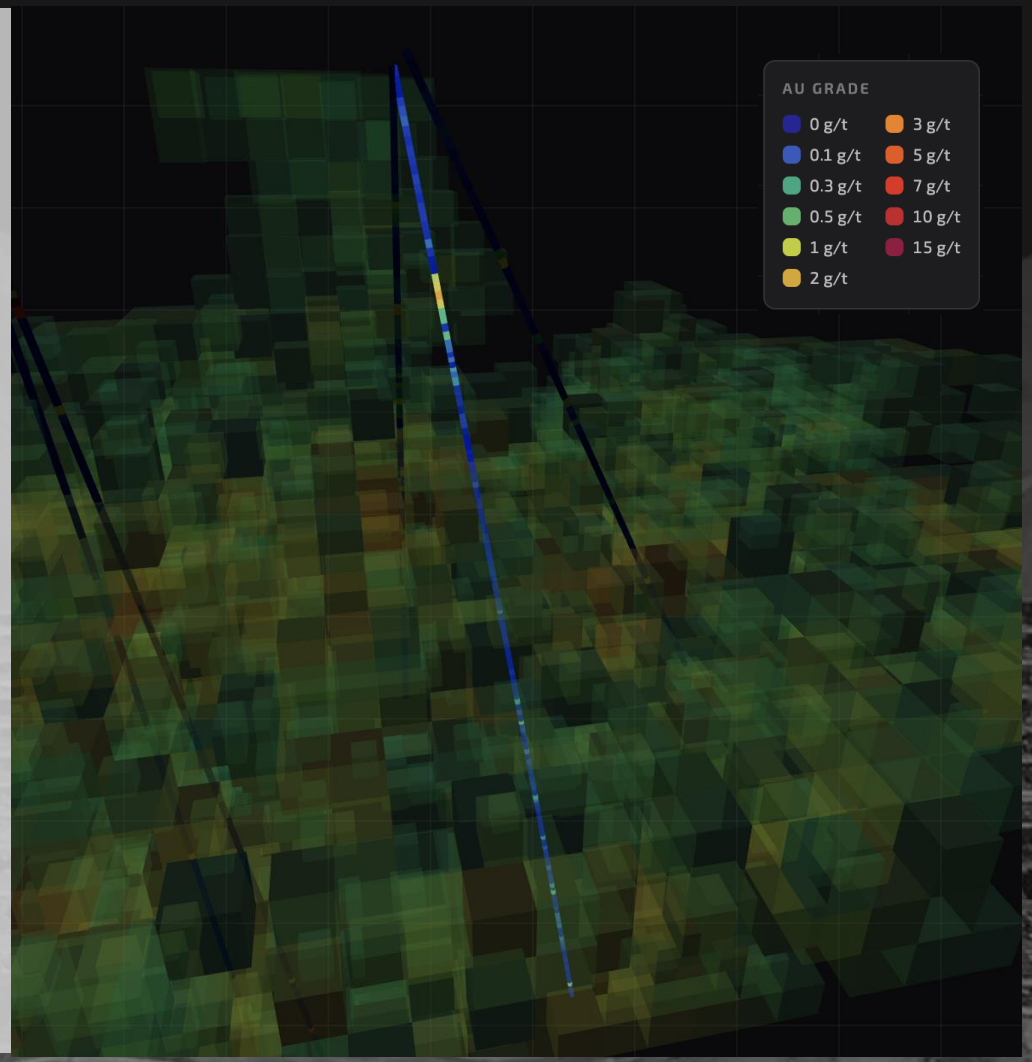
CLUSTER 6

STRATUM AI

DH029

DH029: 1 hits at 20-30m, max grade 2.6/T at 24m

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



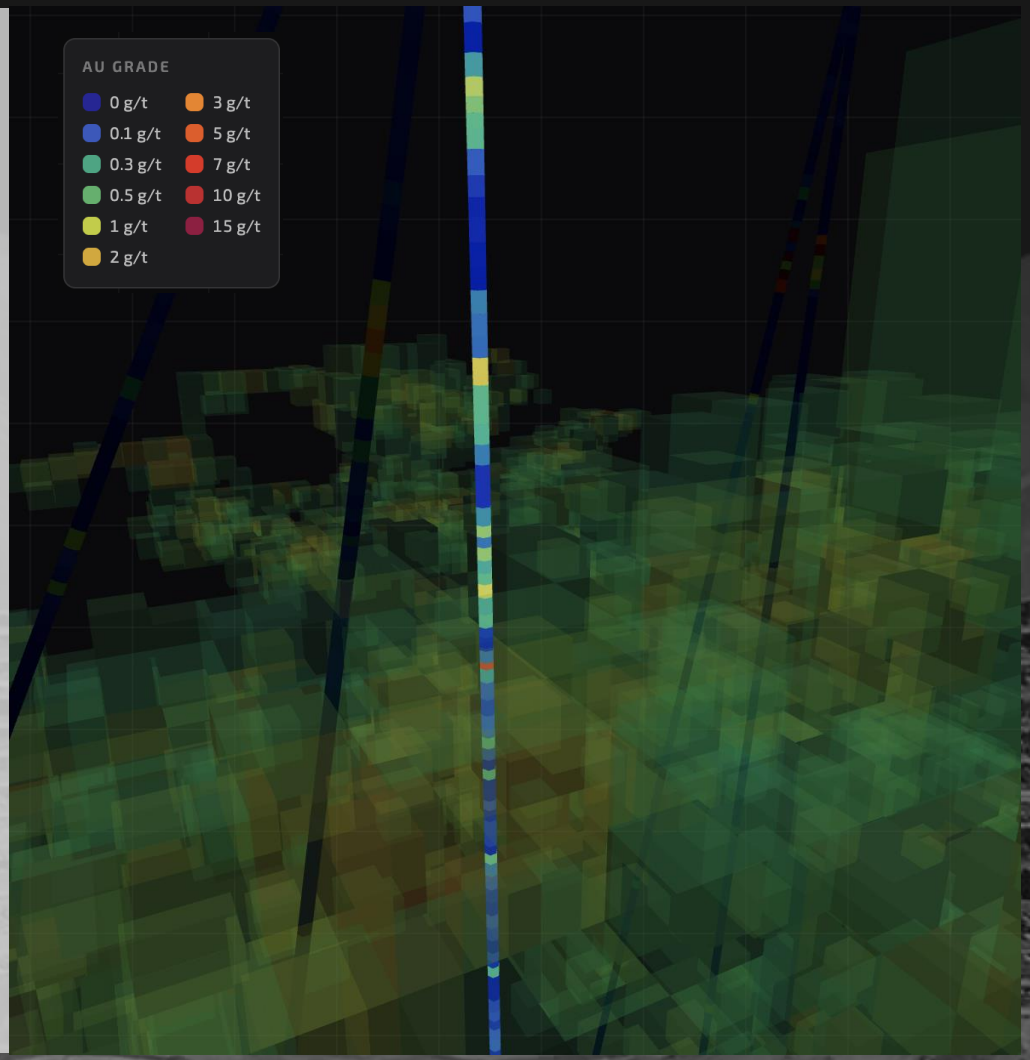
CLUSTER 6

STRATUM AI

DH030

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



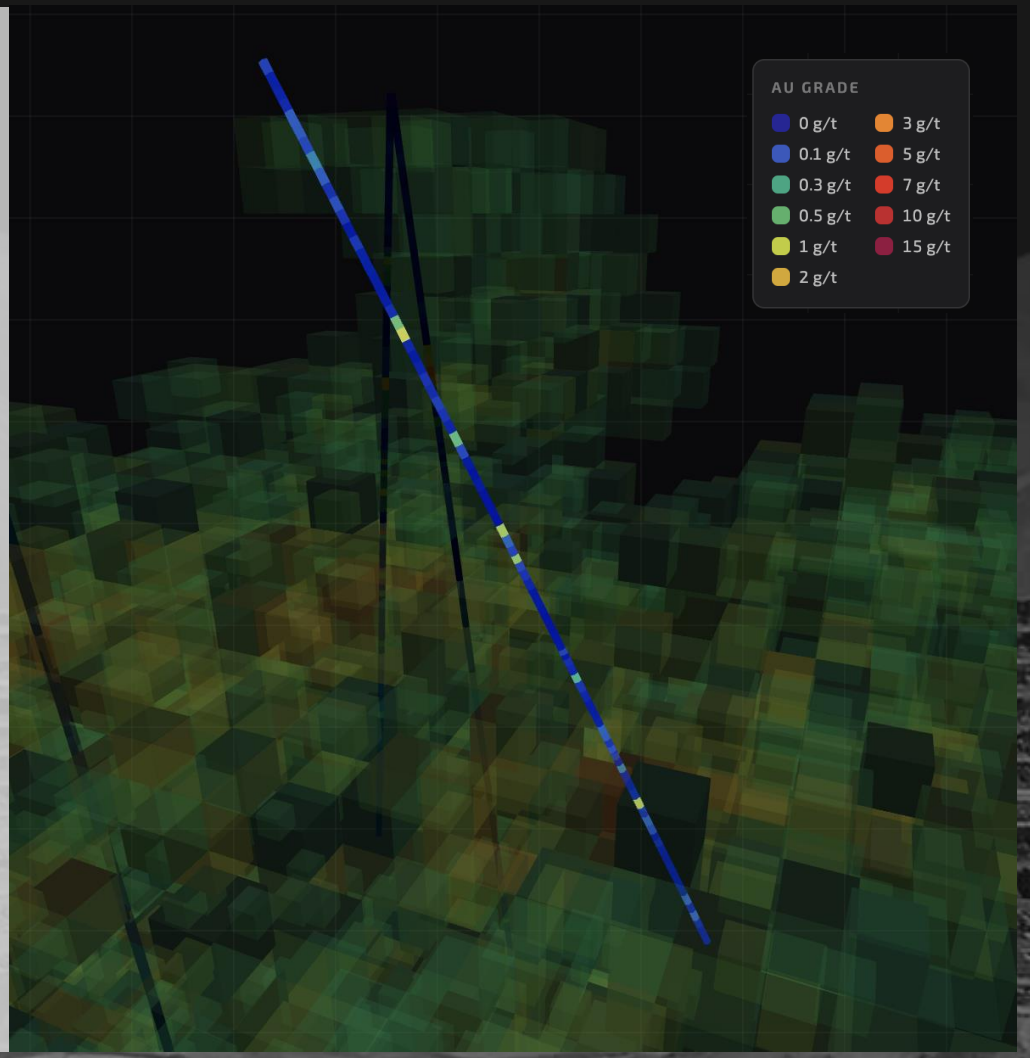
CLUSTER 6

STRATUM AI

DH032

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

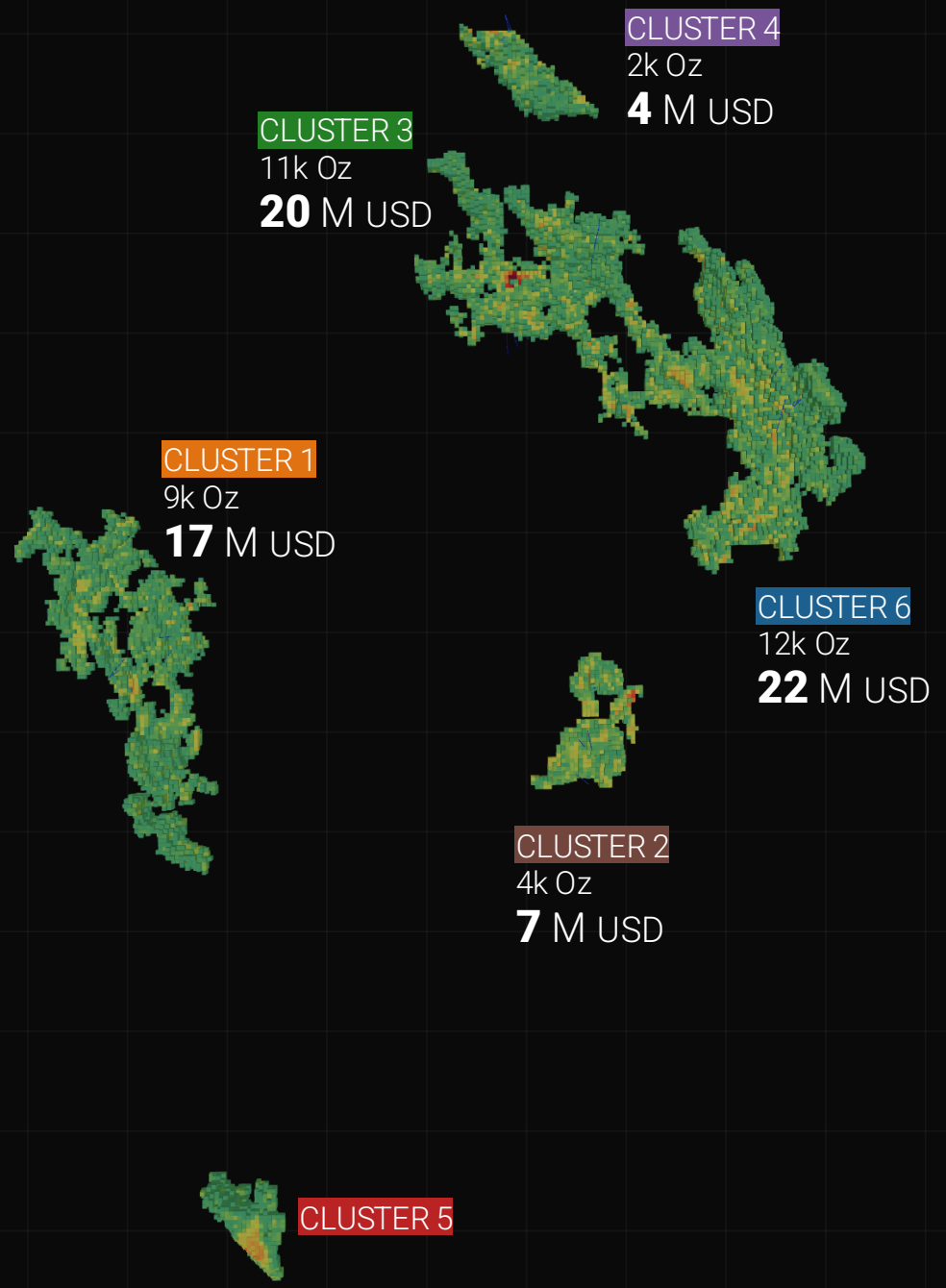


SAIGE MODEL RESULTS

38k OUNCES ($70M)* 2022 gold prices

Verified (measured) with 2.4 km of drilling

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 4	DH018: 3.2g/T at 52m
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 5	Results pending
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 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



STRATUM AI

GOLD DRILLING CASE STUDY

Guided drilling program verified (measured)
38k oz of gold with 32% more oz proven per drillhole.