

Figure 1. Location of the Turner Albright deposit and the Noranda/Baretta claim block.

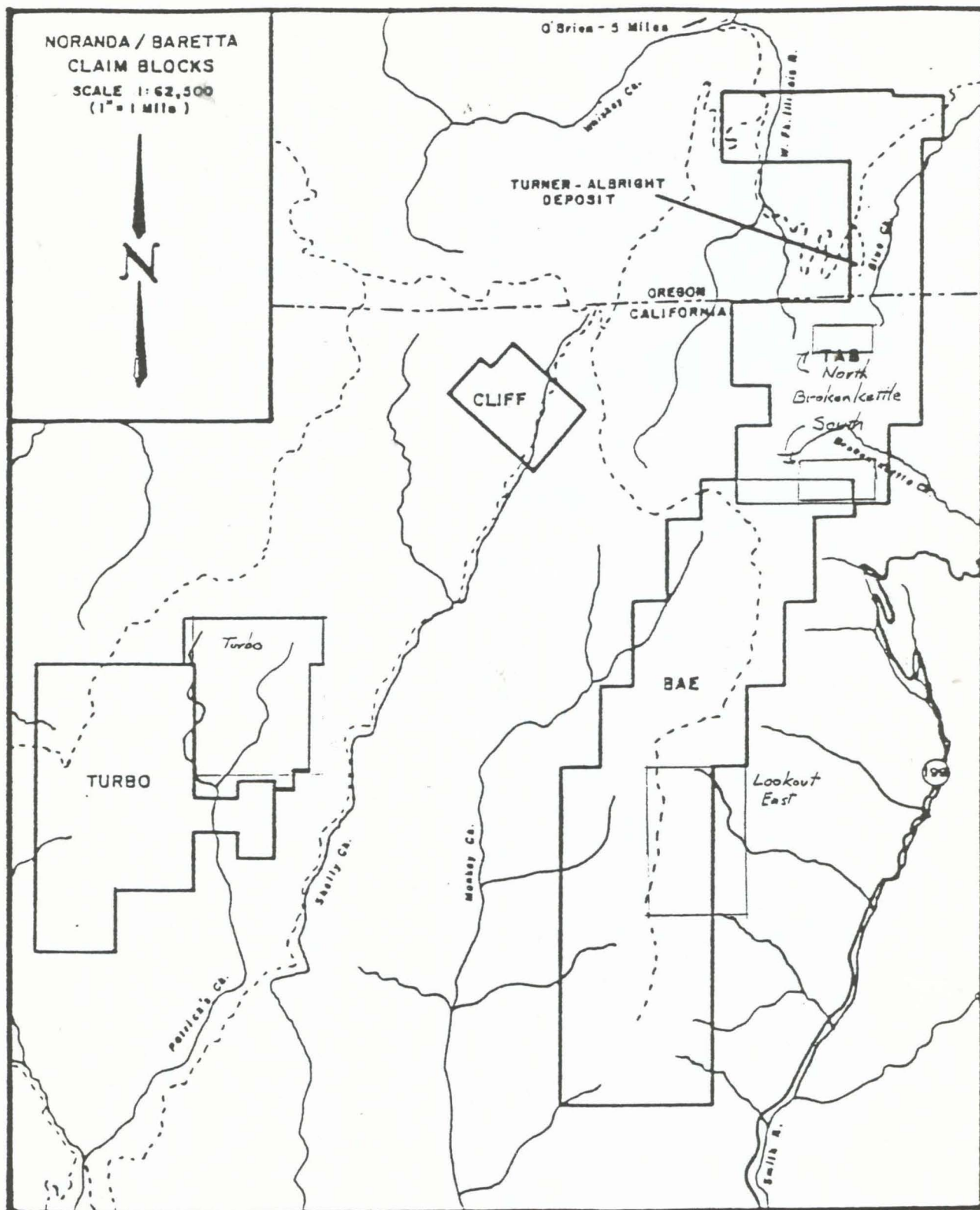


Figure 2. Specific location of the various Noranda/Baretta claim blocks, and the location of the Turner Albright deposit.

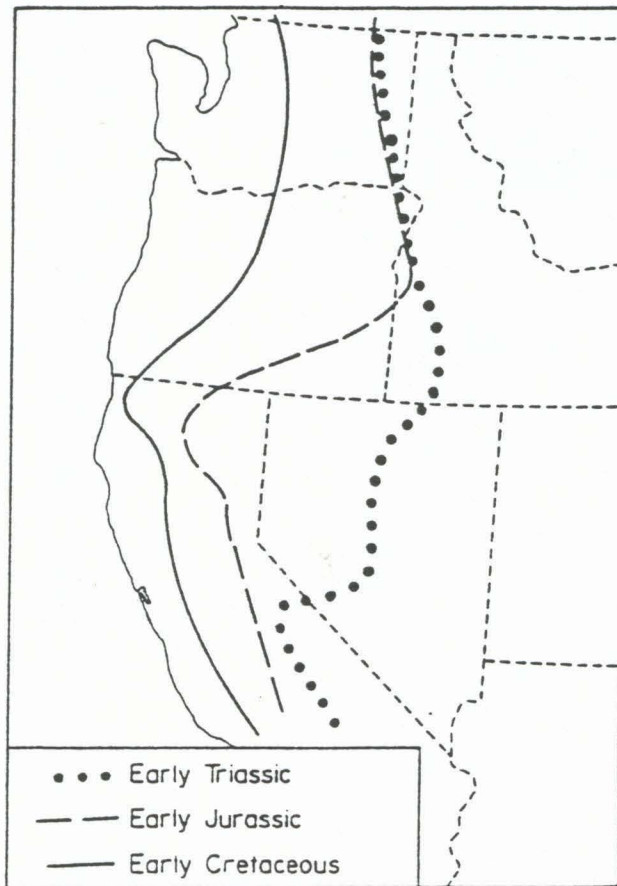


Figure 3. Generalized map illustrating the westward migration of the western continental margin during Mesozoic times (Brooks, 1979; Drake, 1982).

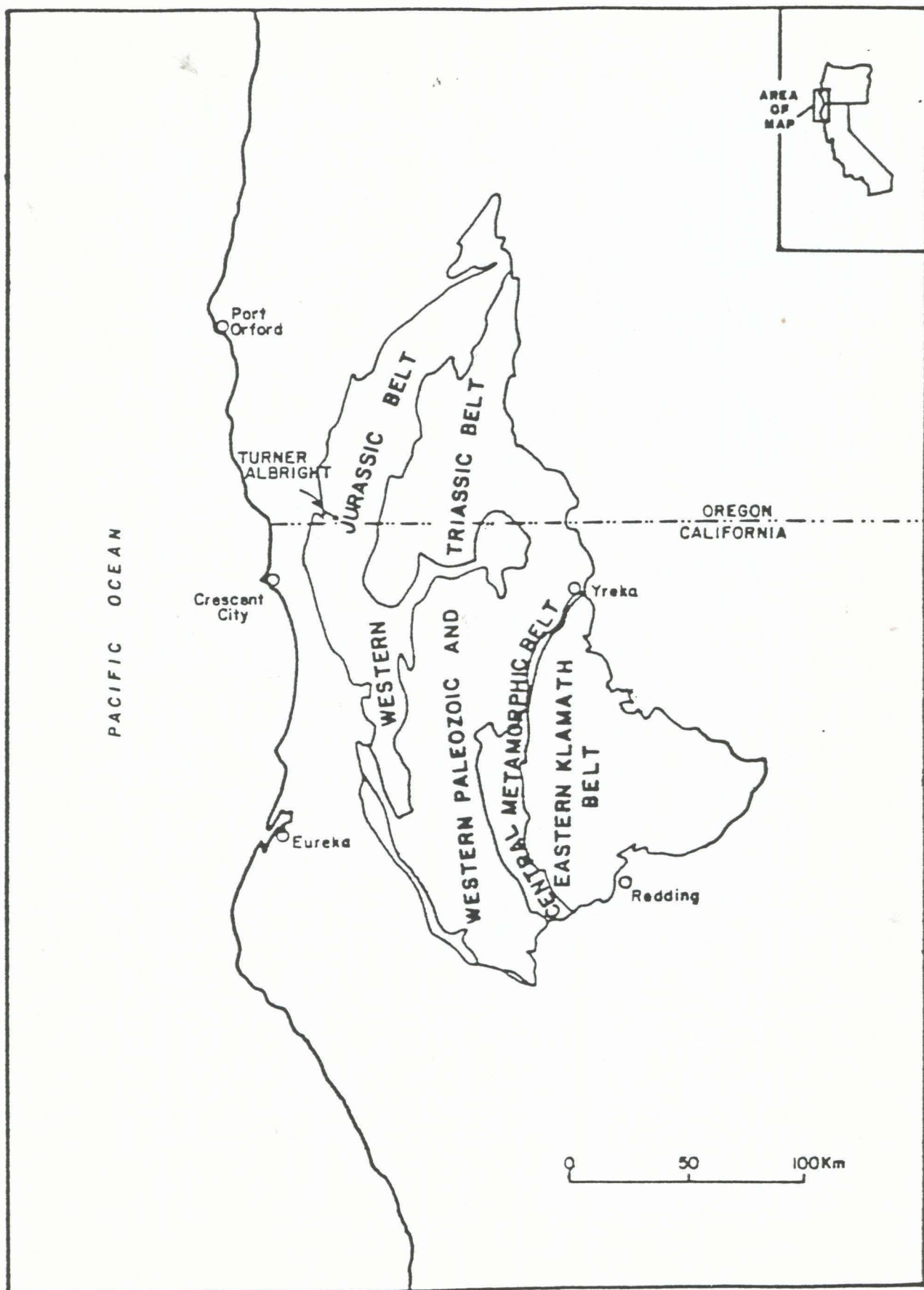


Figure 4. Lithotectonic belts within the Klamath Mountains Province of southern Oregon and northern California (Harper, 1980). The Eastern Klamath Belt is Ordovician to Jurassic in age, and metamorphism of the Central Metamorphic Belt occurred during the Devonian.

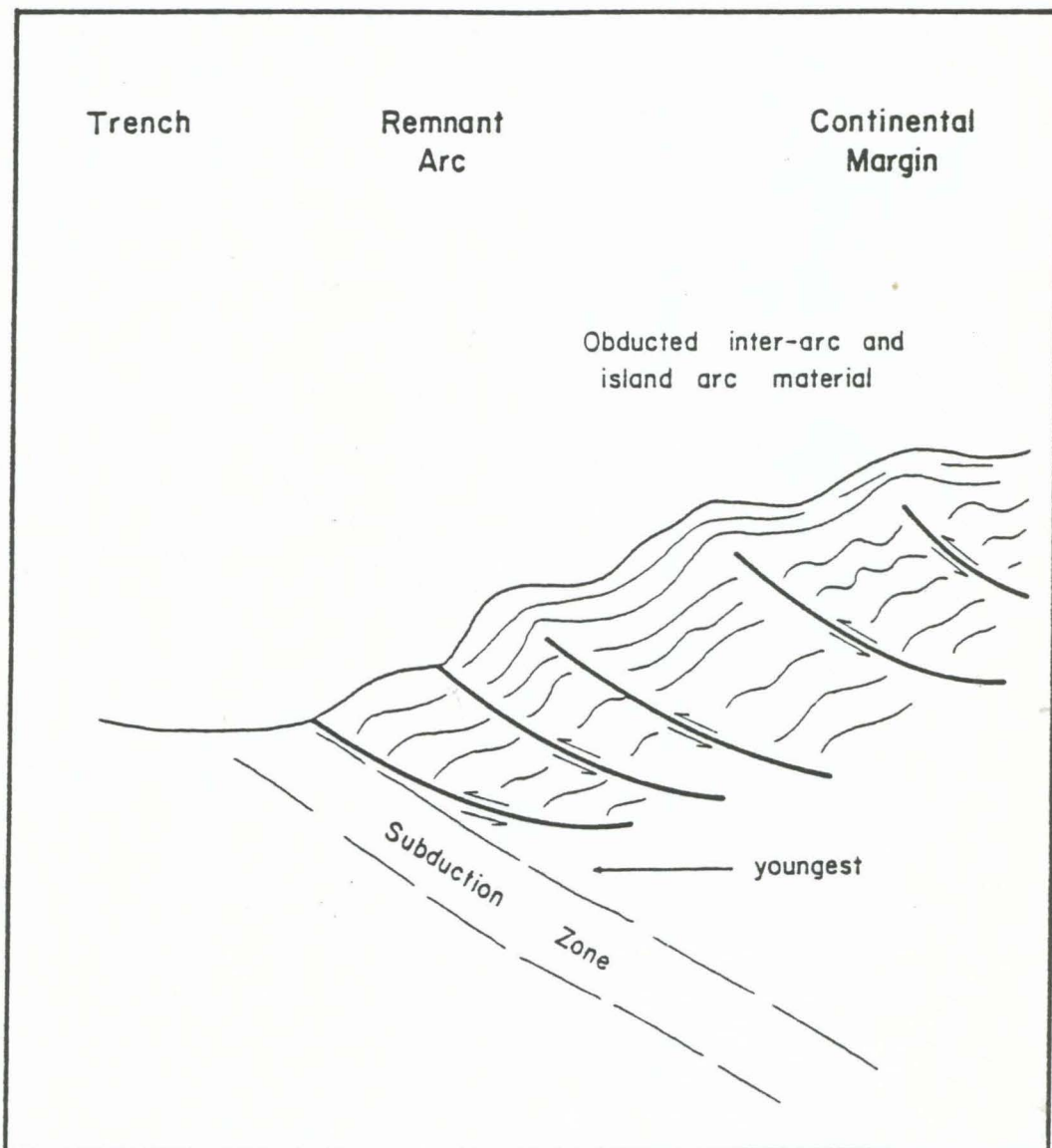


Figure 5. Idealized trench margin model picturing concave-upward under-thrust faults. This type of tectonics probably created the structural situation seen in the Klamath Mountains Province today.

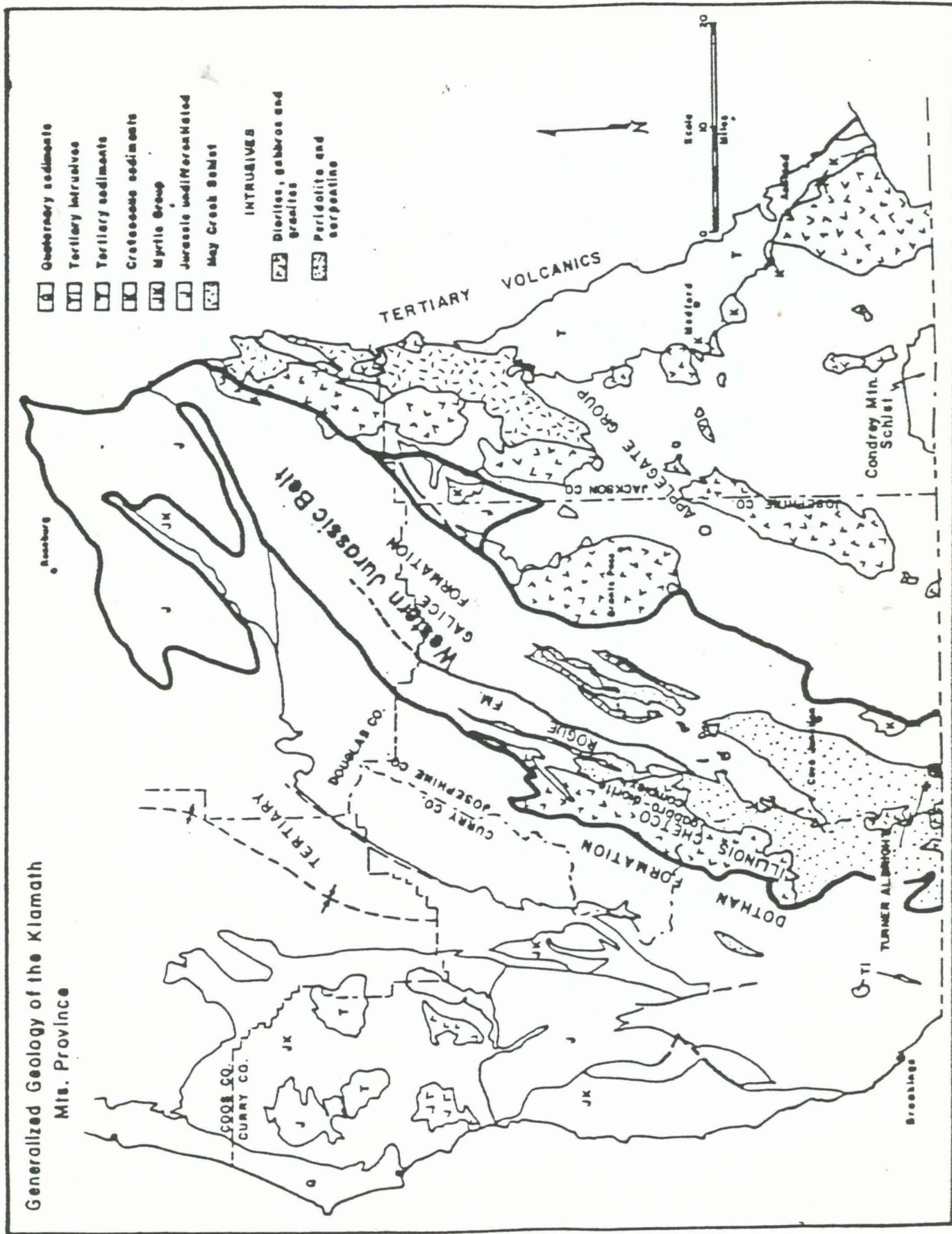


Figure 6. Generalized geologic map of the Northern Klamath Mountains Province. Turner Albright is located within the district. The map is by J. H. Cowley, 1951.

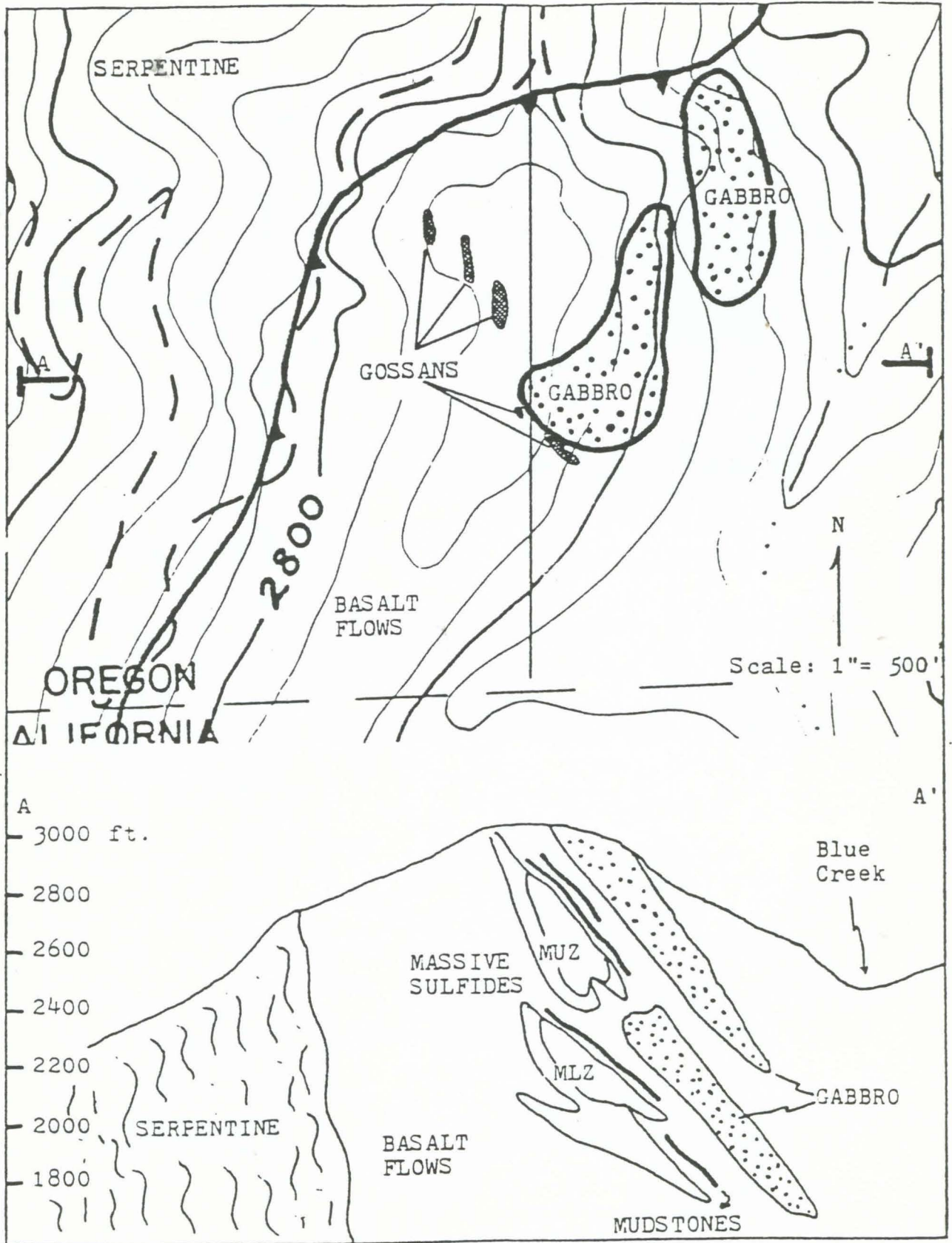


Figure 8. Generalized geologic map and east-west cross section of the Turner Albright deposit. The cross section depicts the upper and lower exhalative horizons.

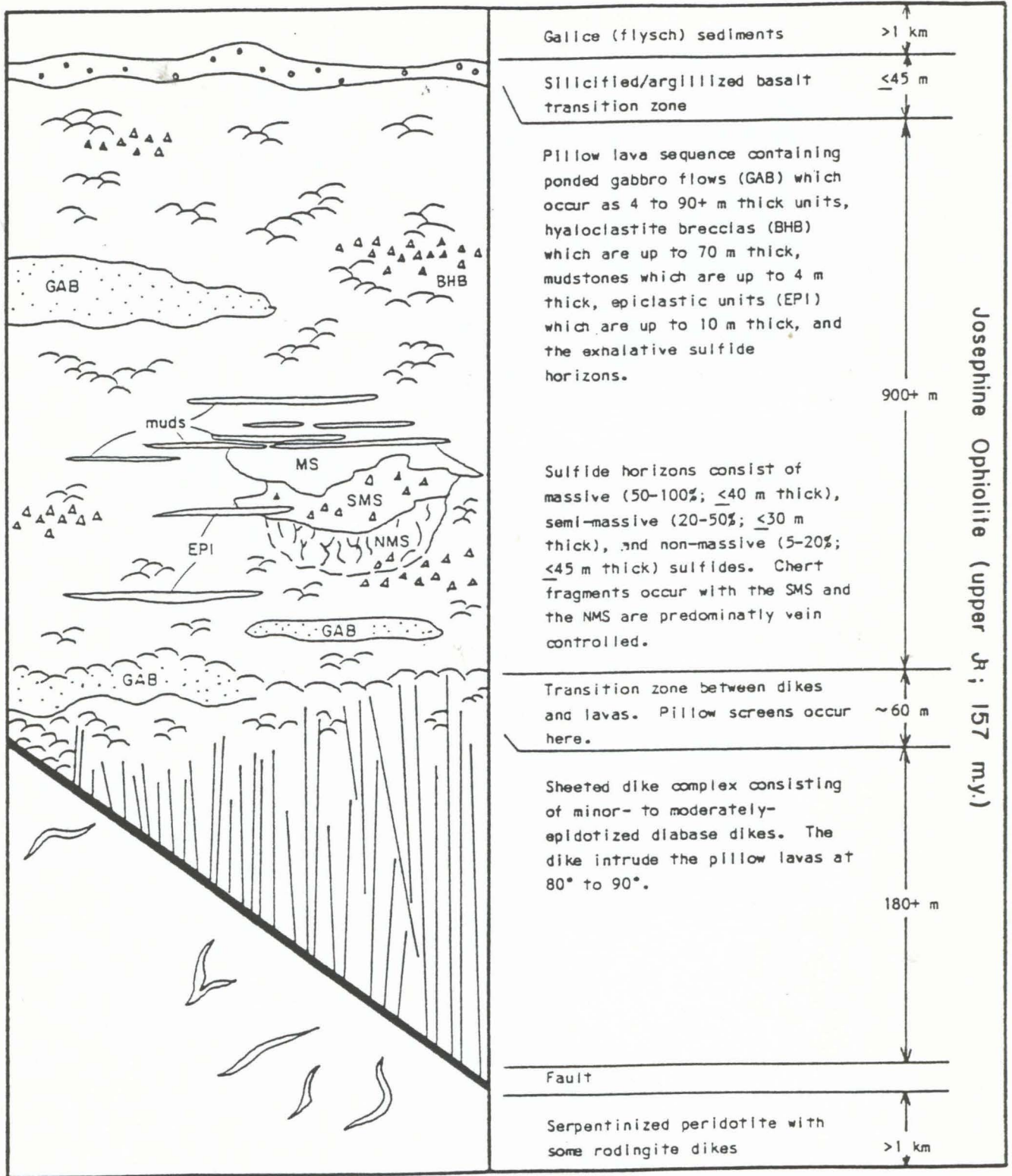


Figure 9. Schematic generalized geologic section of the Turner Albright-type mineralization and immediate surrounding areas. An estimated 1.0 to 1.5 km of section have been removed by the fault between the dike complex and serpentinite.

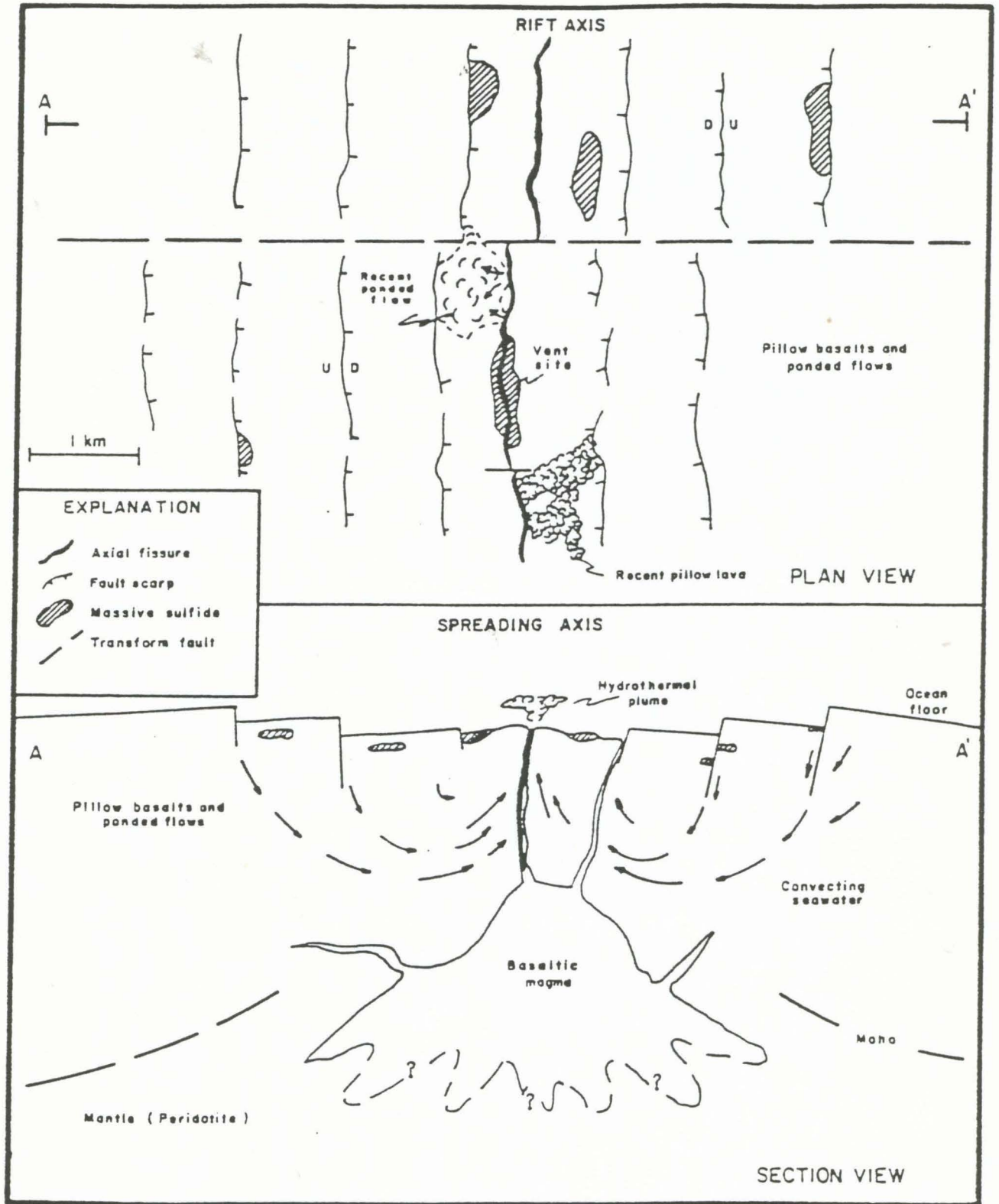


Figure 11. Idealized representation of a rift environment similar to that which produced the Turner Albright massive sulfide pods.

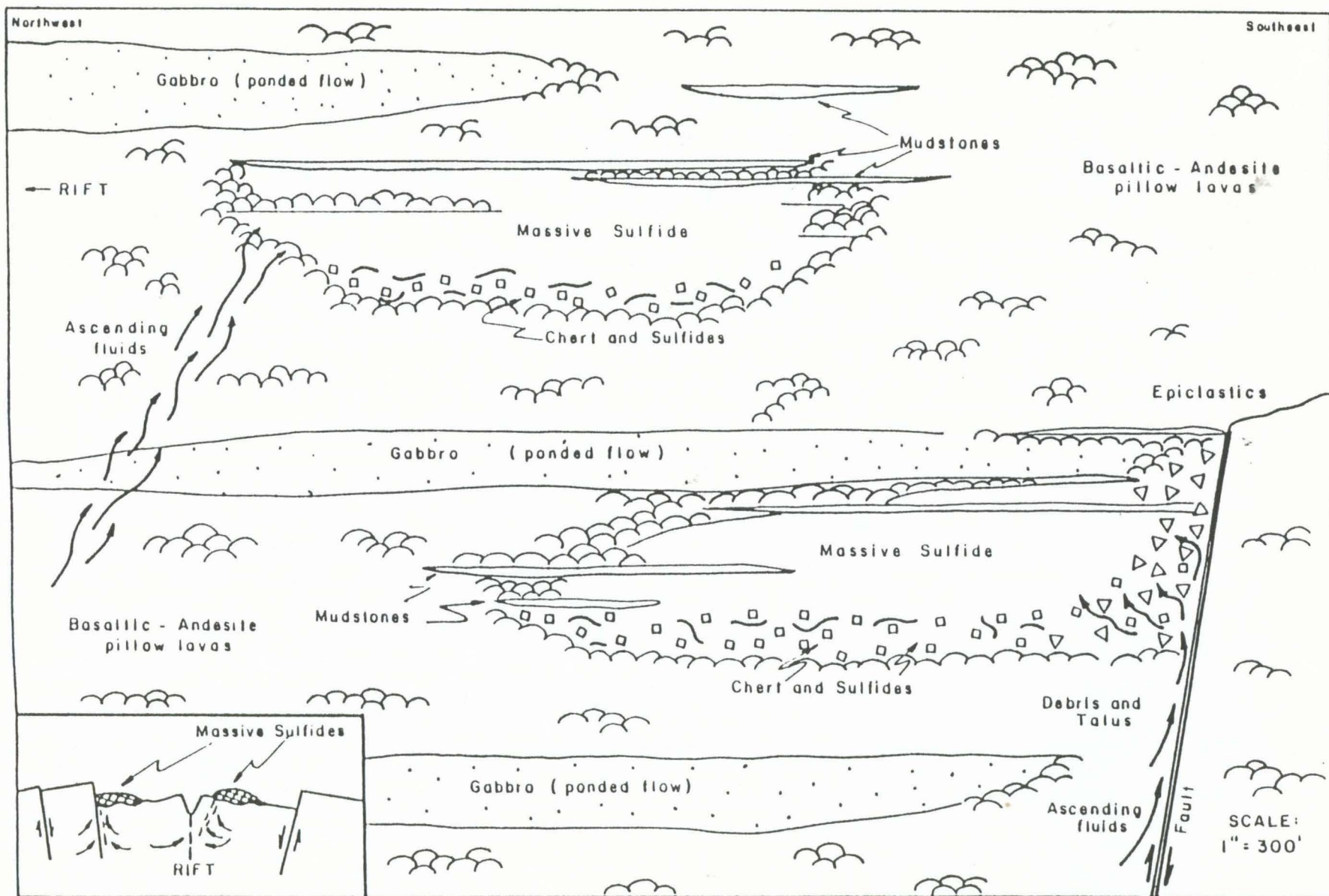


Figure 12. Generalized geologic model of the Turner Albright massive sulfide deposit. Note the two types of occurrences of the massive sulfides, the upper zone representing ponded sulfides in a local basin within the flow sequence, and the lower zone representing sulfides deposited against a fault block margin. This model represents a section through the long axis of the Turner Albright, with the rift being off to the left (northwest).

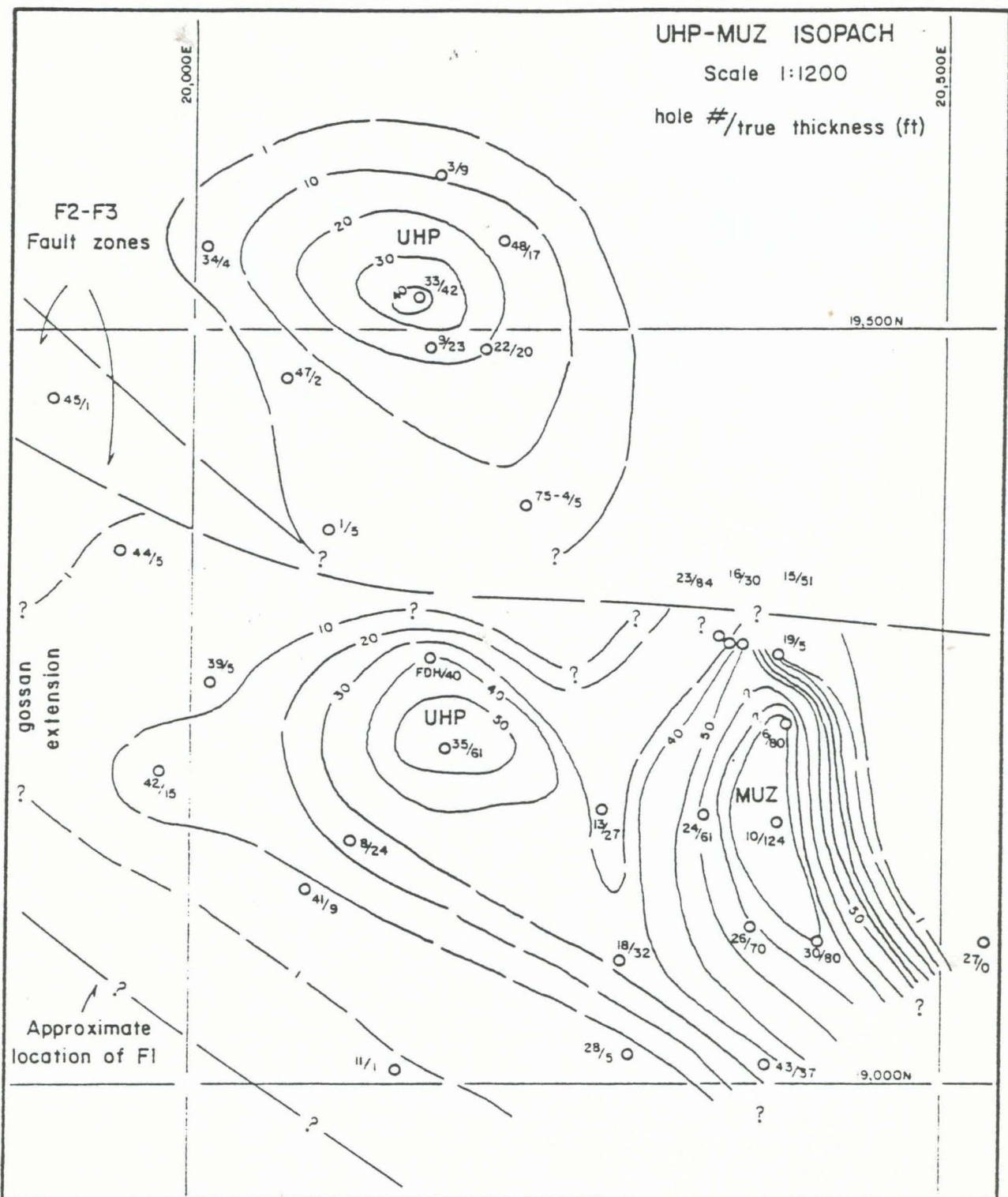


Figure 13. Isopach map of massive sulfides in the upper exhalative horizon. This horizon includes the two main upper high-grade pods (UHP) and main upper zone (MUZ). True thicknesses and drill intercept midpoints of the massive sulfides were used to construct the map.

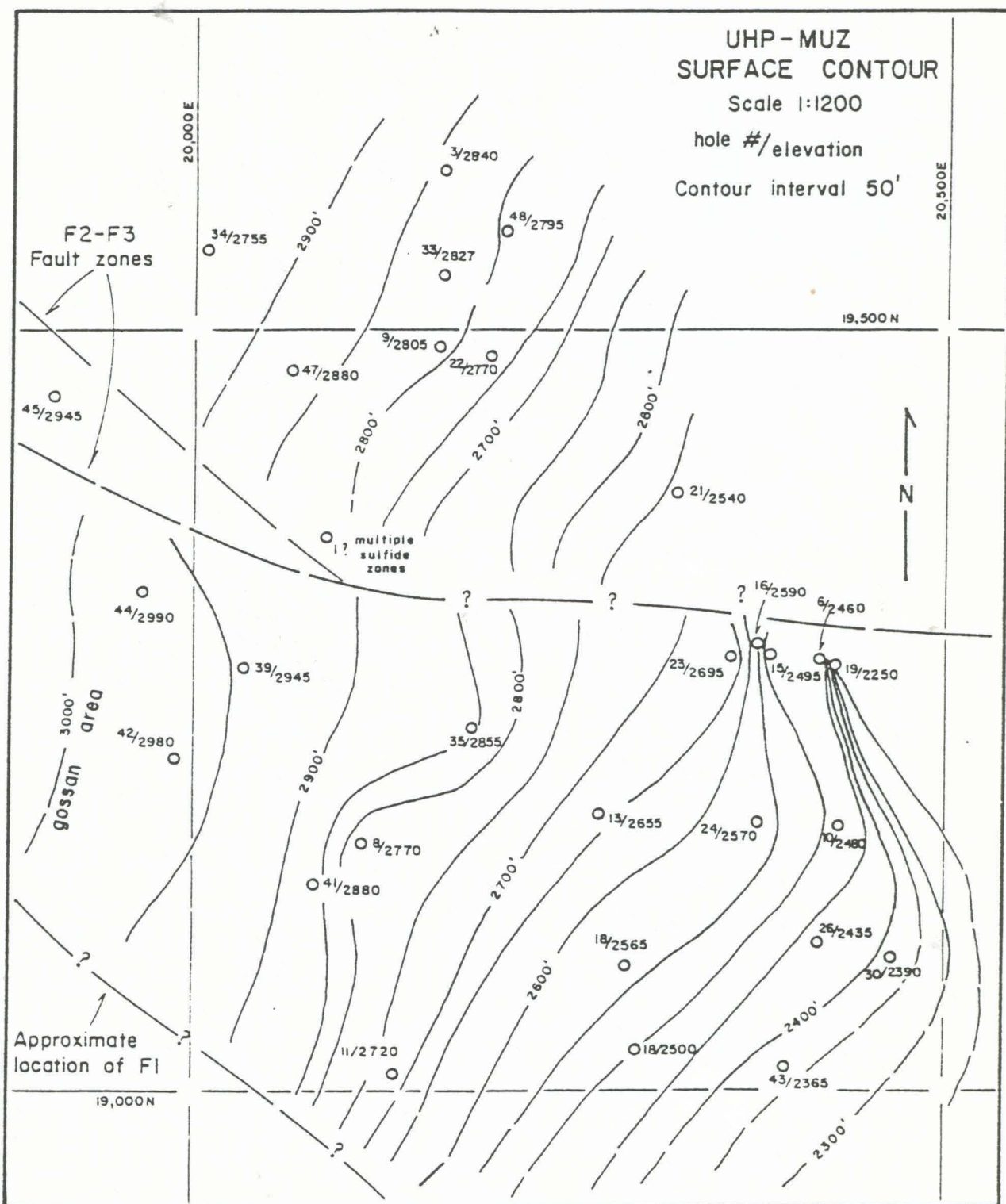


Figure 14. Contour map of the upper contact of the upper exhalative horizon. This horizon contains the two main upper high-grade pods (TAB-33, 35) and the main upper zone.

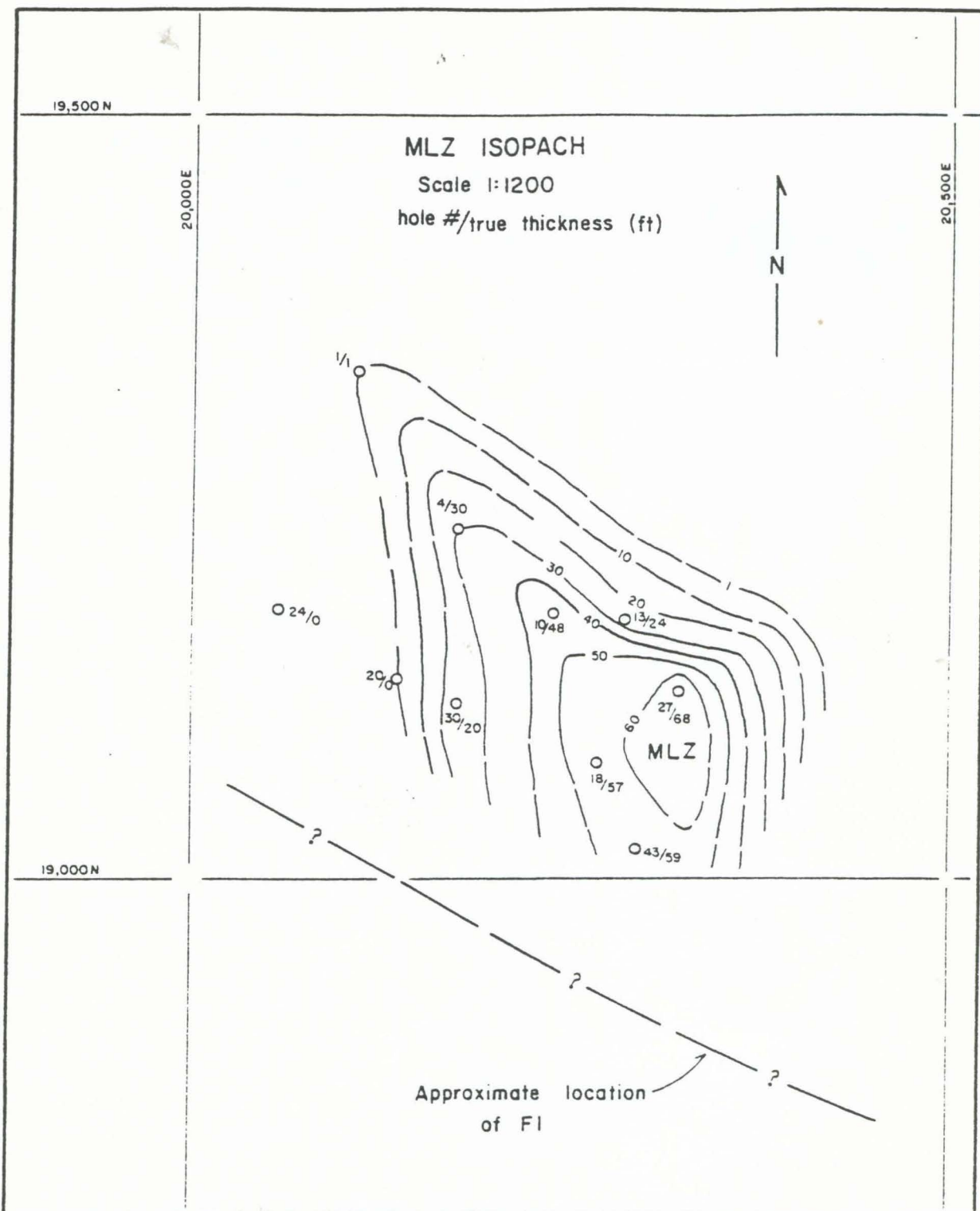


Figure 15. Isopach map of massive sulfides in the lower exhalative horizon (the main lower zone, MLZ). True thicknesses and drill intercept midpoints of the massive sulfides were used to construct the map.

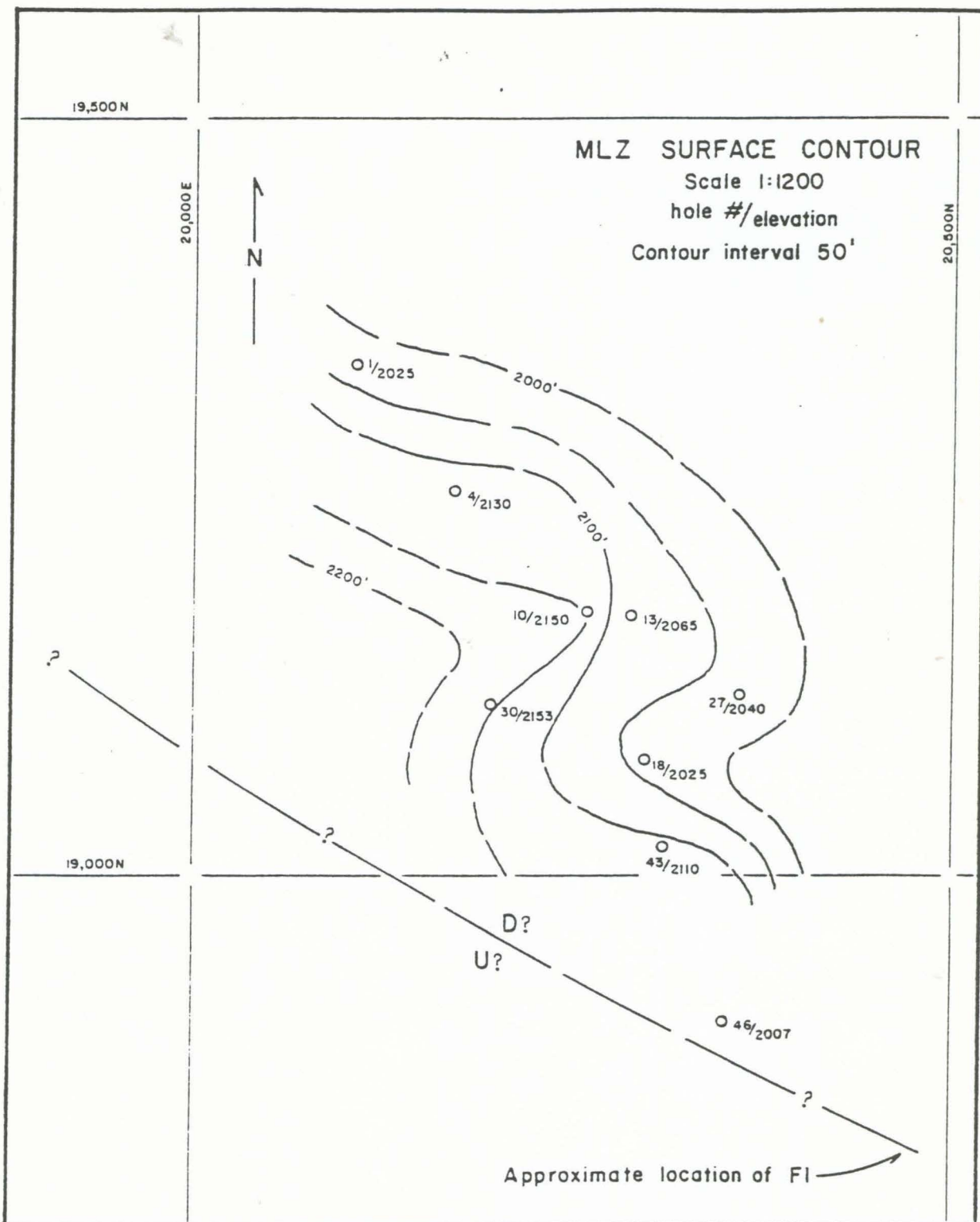


Figure 16. Contour map of the upper contact of the lower exhalative horizon (main lower zone).

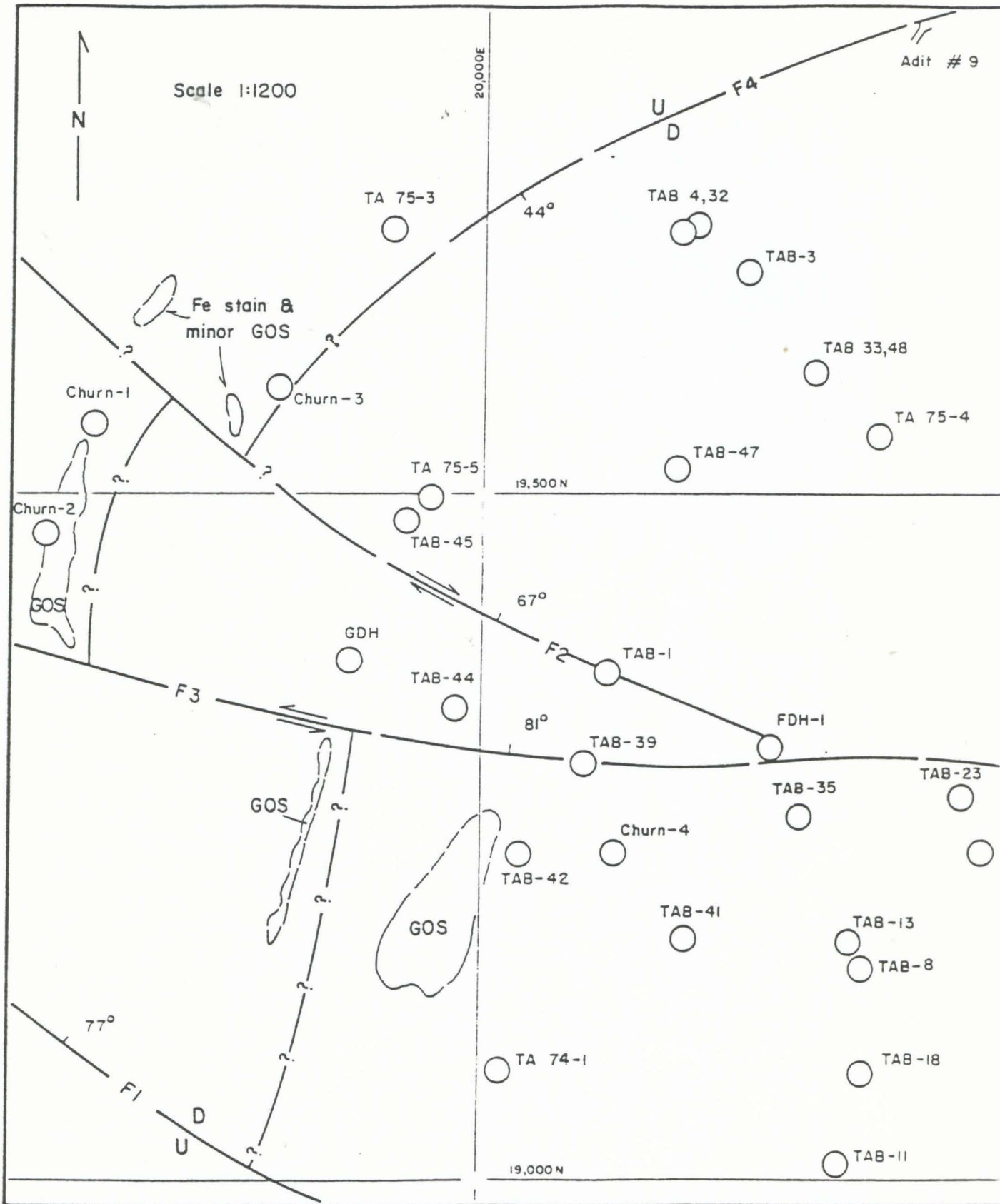


Figure 19. Structural geology in relationship to the gossans and drill holes at Turner Albright. Fault locations are based on drill hole intercepts and limited surface exposure. Proposed directions of displacement are based on correlations between the sulfide pods.

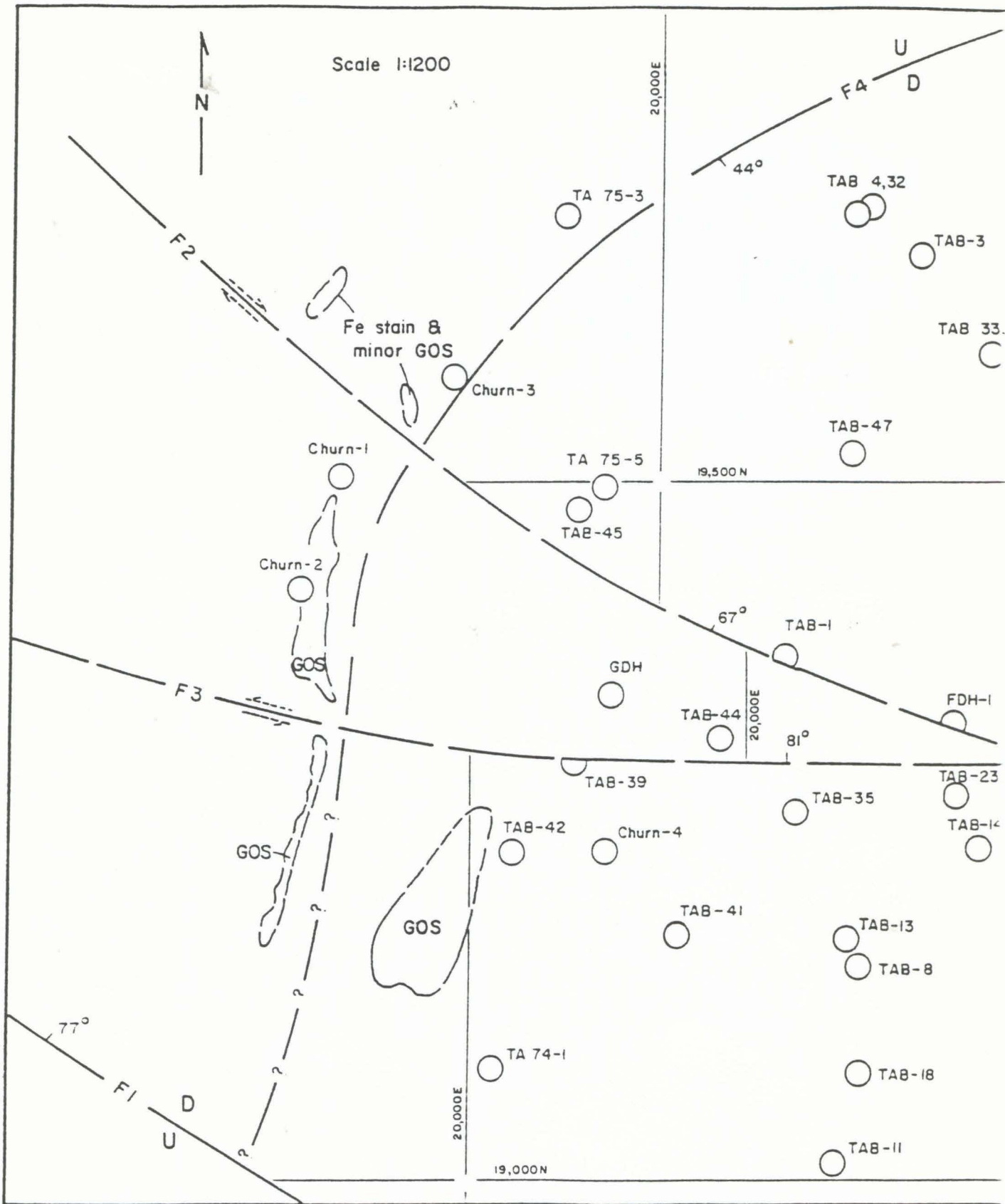


Figure 20. Interpretive structural geology depicting the possible gossan correlations prior to F2 and F3 displacements. Note the new positions of the drill holes and base line.

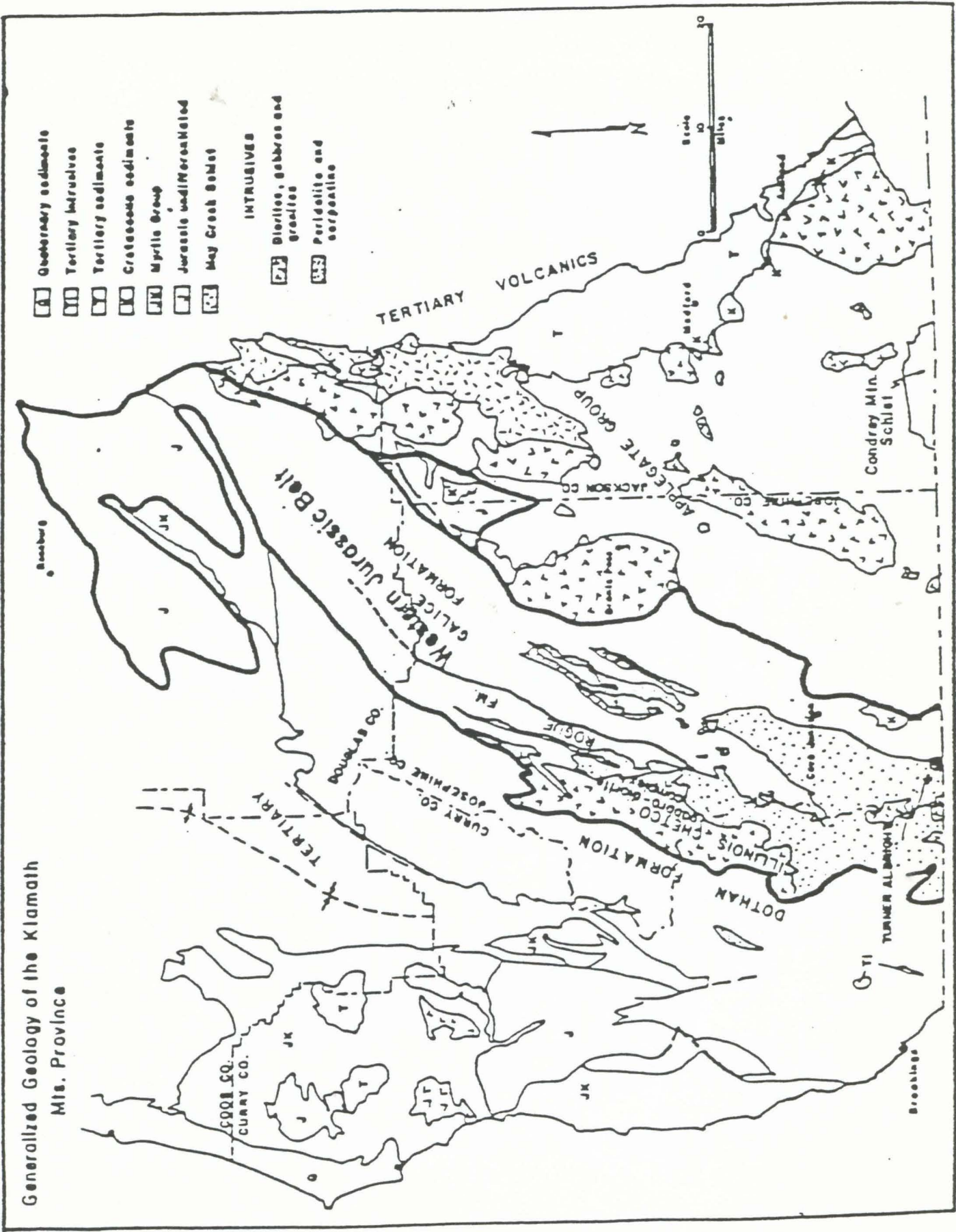


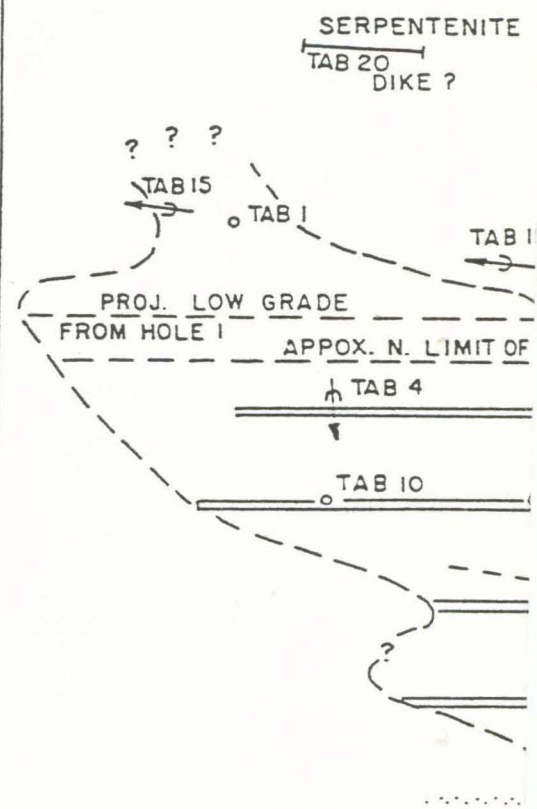
Figure 4.1 GENERAL GEOLOGY, Klamath Mts.

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
S
T

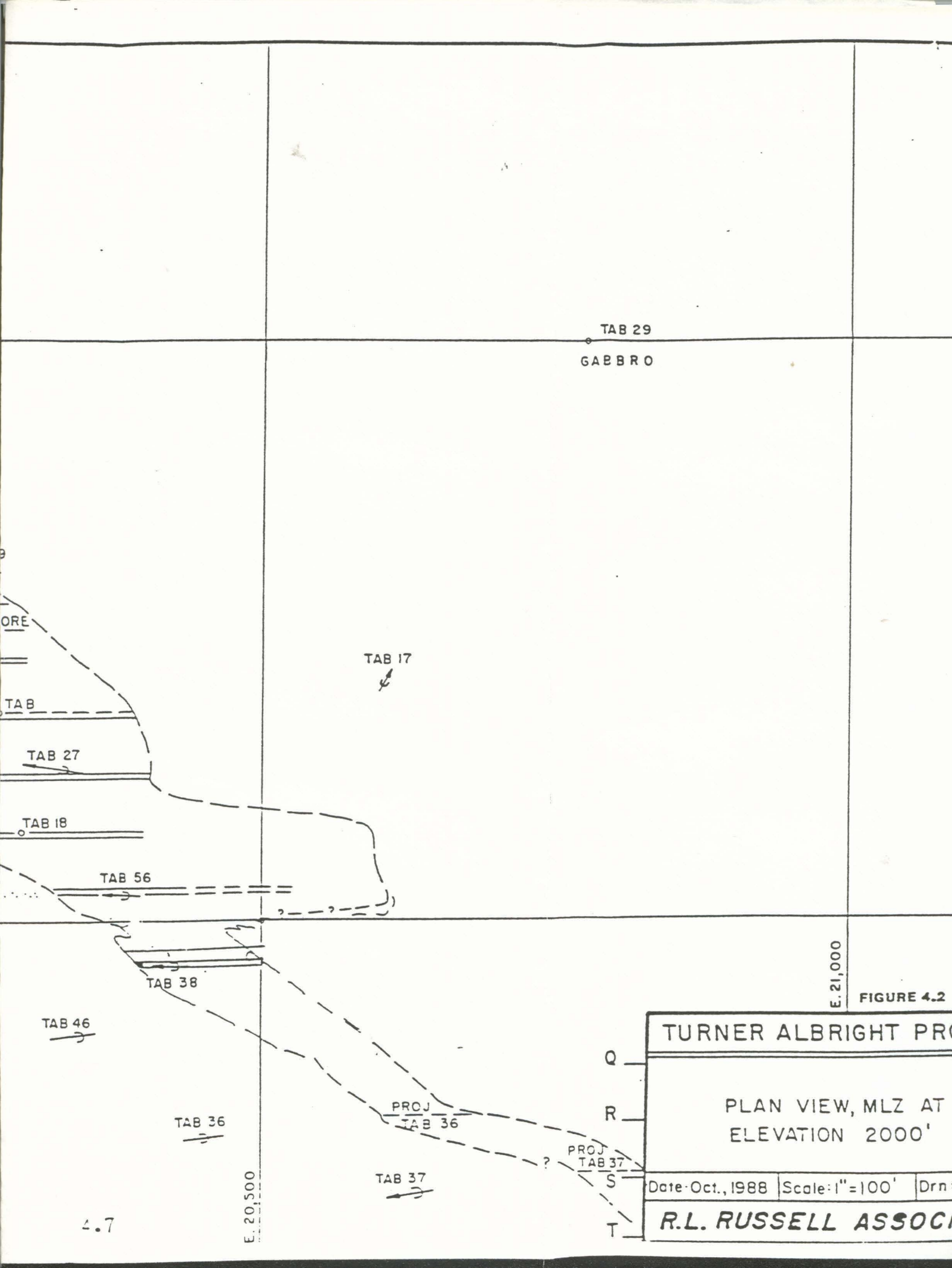
N. 19,500

N. 19,000

TAB 24



E. 20,000



TAB 29
GAB BRO

TAB 17

ORE
TAB
TAB 27
TAB 18

TAB 56

TAB 38

TAB 46

TAB 36

TAB 37

PROJ
TAB 36

PROJ
TAB 37

E. 21,000

E. 20,500

FIGURE 4.2

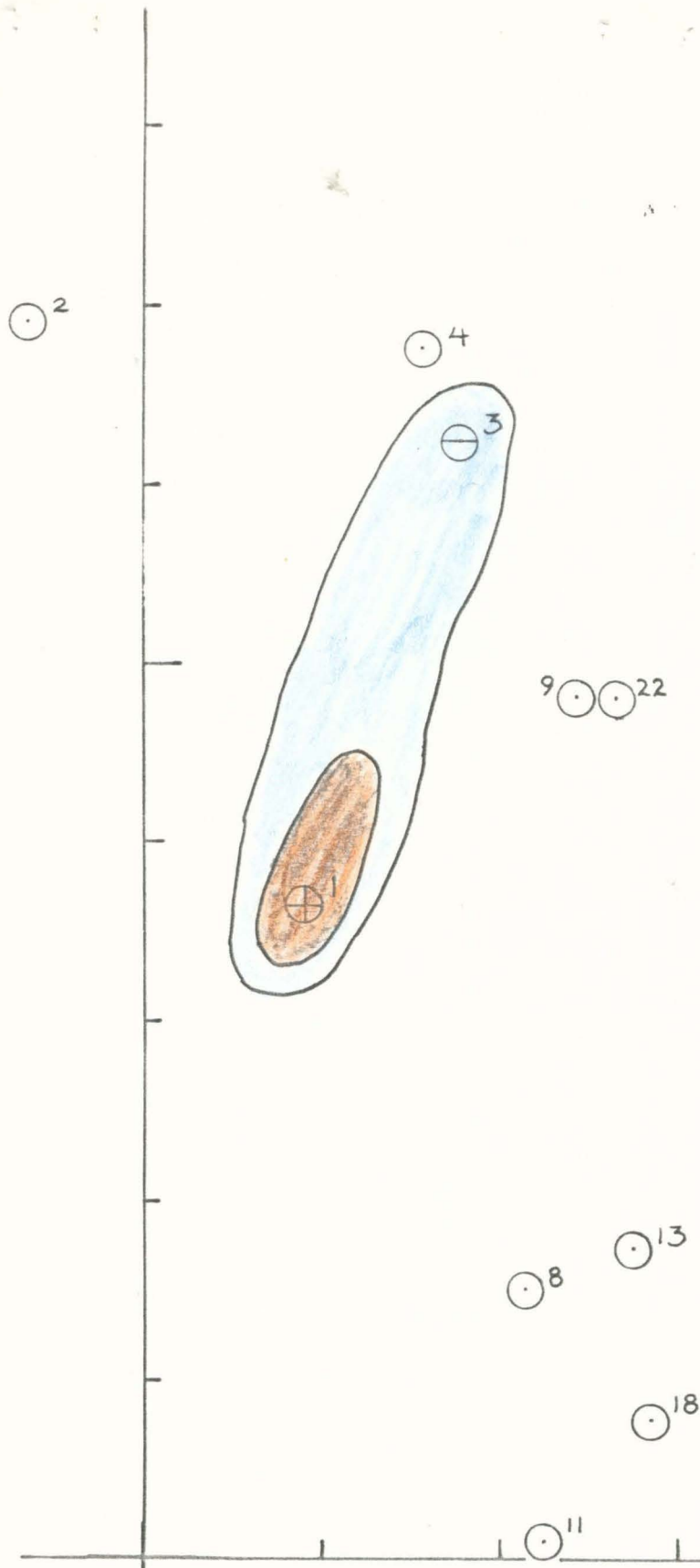
TURNER ALBRIGHT PRO

Q
R
S
T

PLAN VIEW, MLZ AT
ELEVATION 2000'

Date: Oct., 1988 | Scale: 1" = 100' | Drn

R.L. RUSSELL ASSOCI



2875' LEVEL
1" = 100'

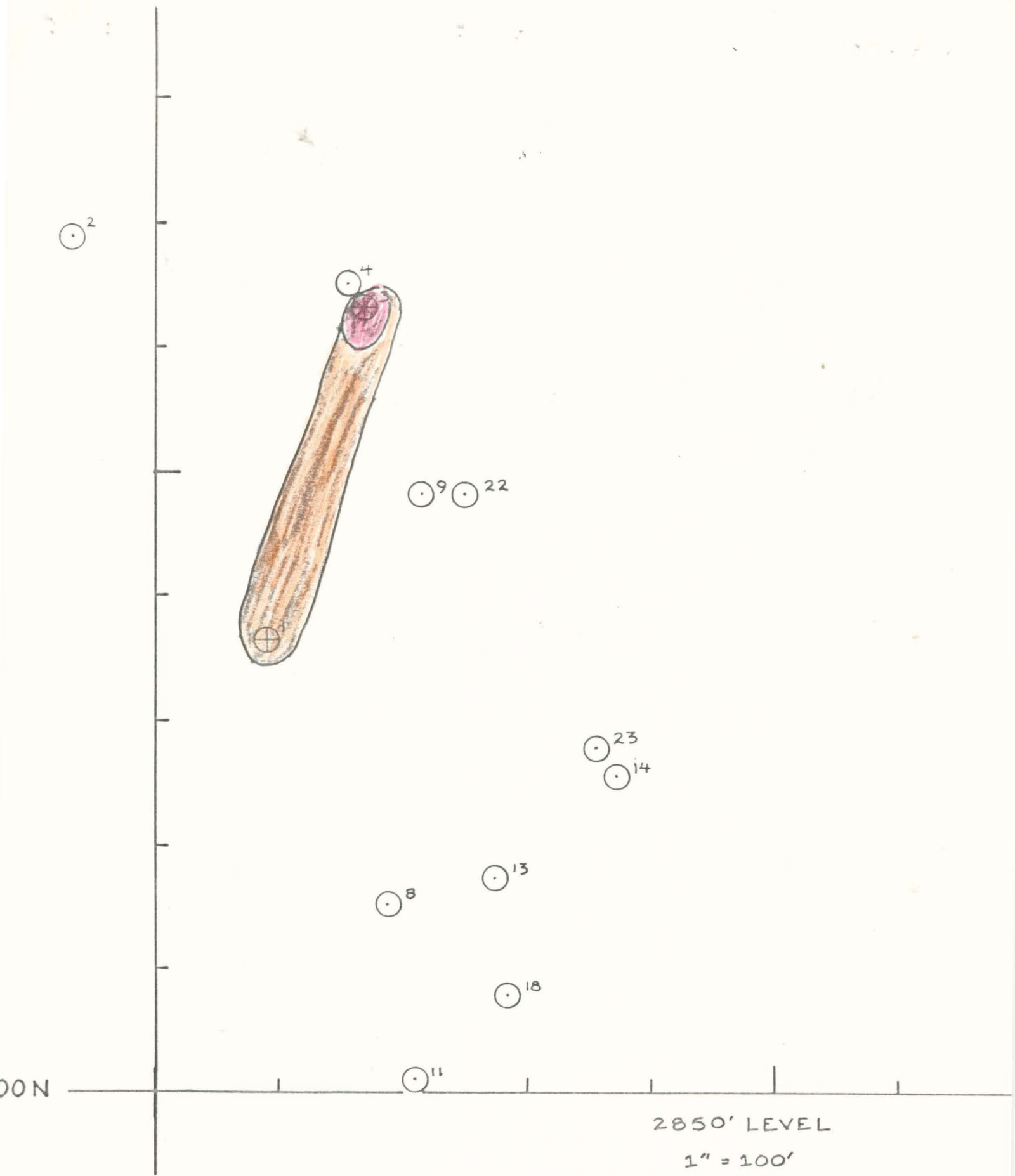
20,000 E

CUT-OFF

TONS

GRADE

1%	65,500	2.32'
3%	12,250	5.78'
5%	12,250	5.78'
10%	0	0



00N

20,000 E

2850' LEVEL

1" = 100'

CUT-OFF

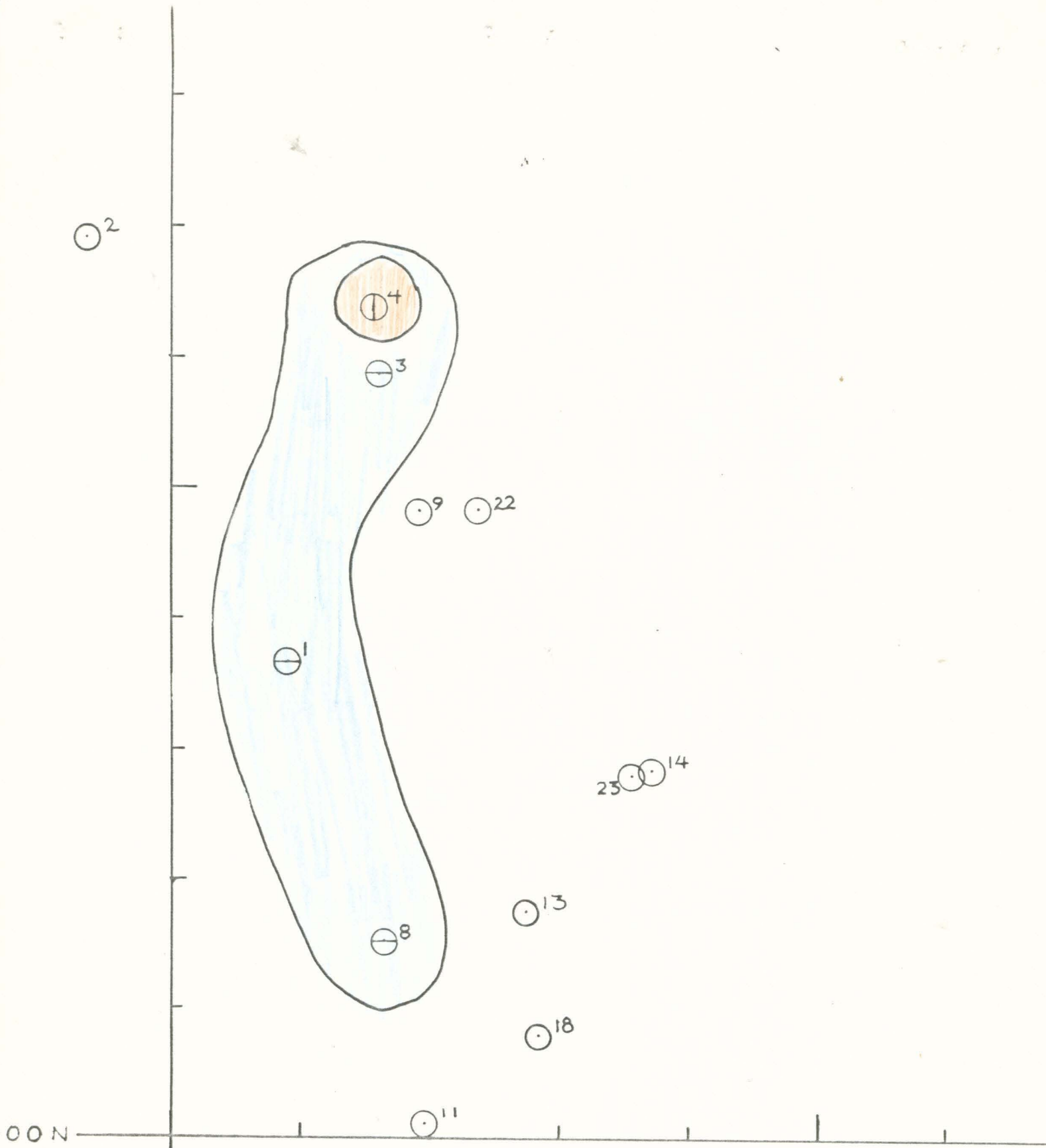
TONS

GRADE

- 1%
- 3%
- 5%
- 10%

- 35,000
- 35,000
- 35,000
- 4,750

- 9.15%
- 9.15%
- 9.15%
- 31.19%



2825' LEVEL
1" = 100'

20,000 E

CUT-OFF

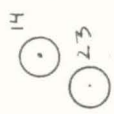
- 1%
- 3%
- 5%
- 10%

TONS

- 162,000
- 8,000
- 0
- 0

GRADE

- 2.05%
- 3.37%
- 0
- 0



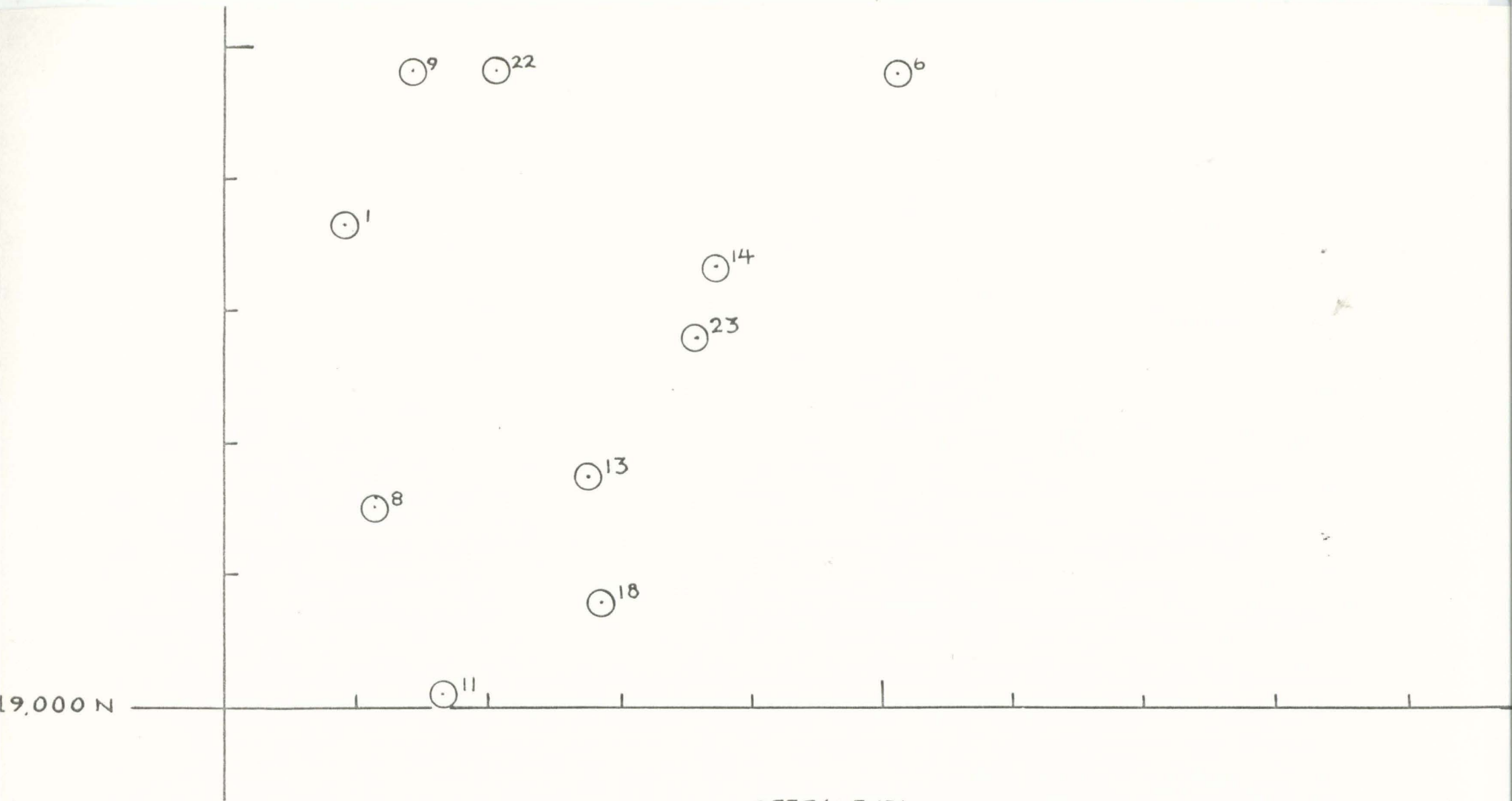
19,000 N

20,000 E

2800' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	12,250	3.17%
3%	12,250	3.17%
5%	0	0
10%	0	0



2775' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

o

o

3%

o

o

5%

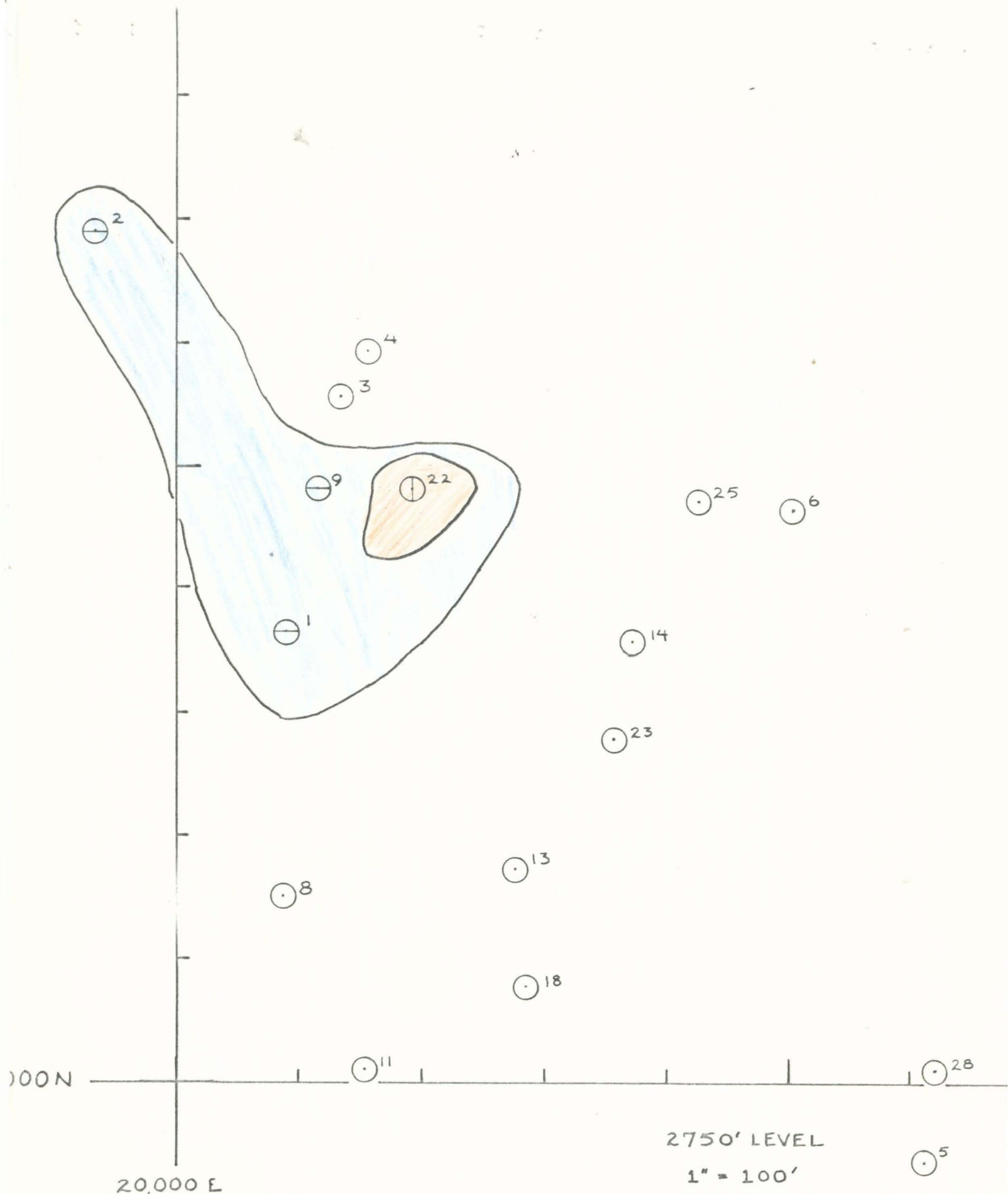
o

o

10%

o

o



CUT-OFF

1%
3%
5%
10%

2750' LEVEL
1" = 100'

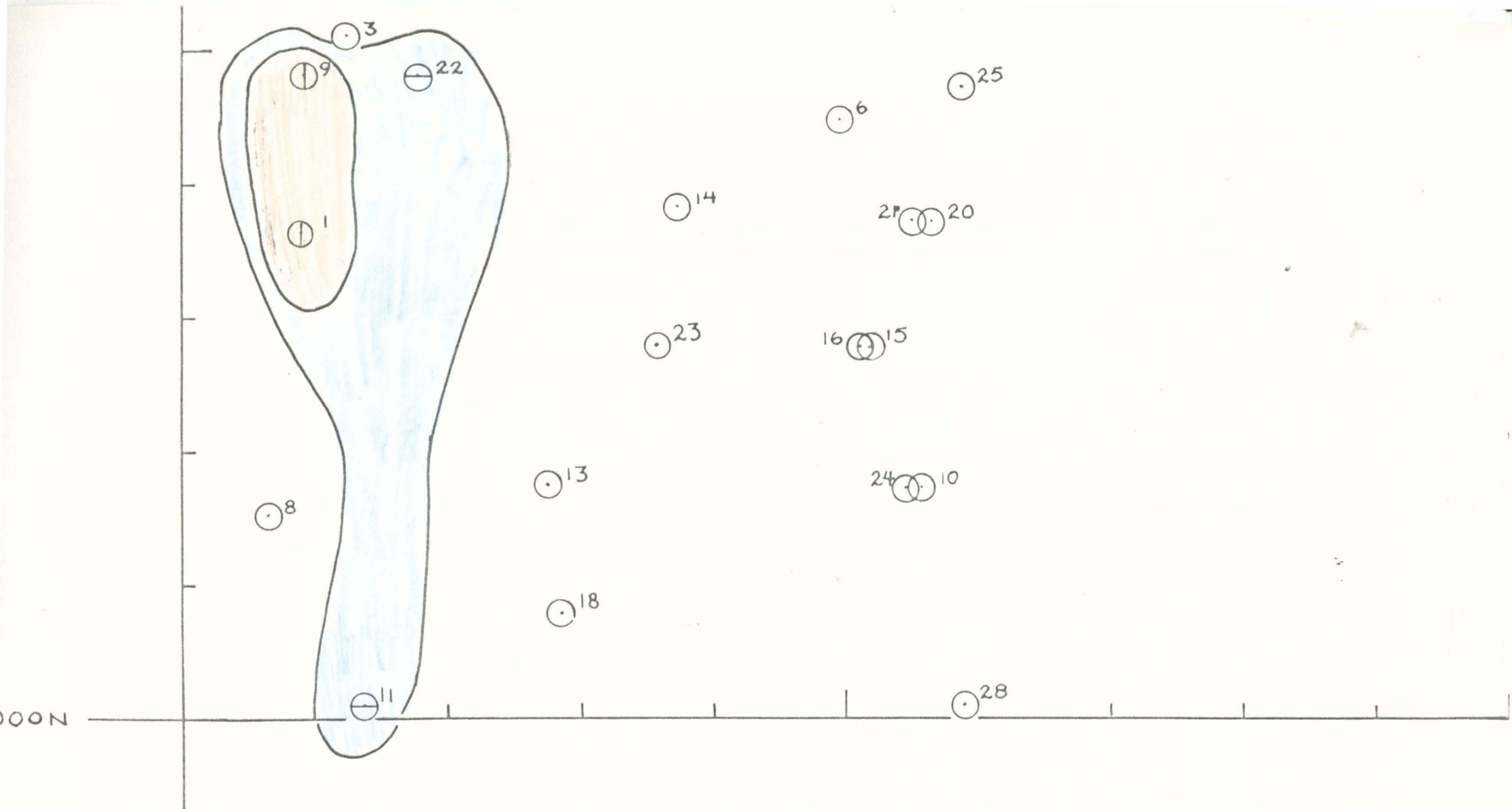
TONS

161,750
13,750
0
0

GRADE

1.79
3.99
0
0

5



20,000 E

2725' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

163,250

2.30%

3%

33,500

3.75%

5%

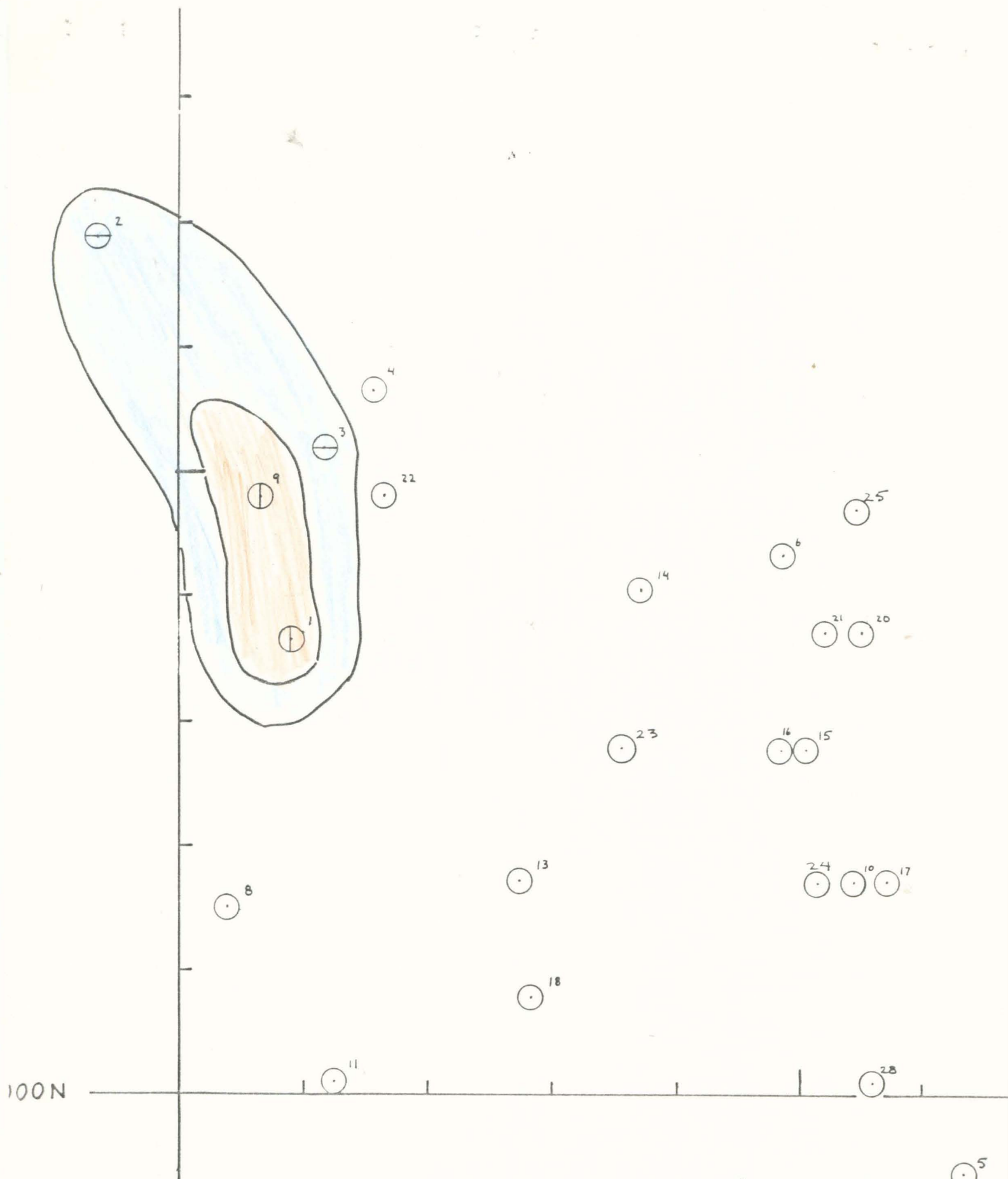
0

0

10%

0

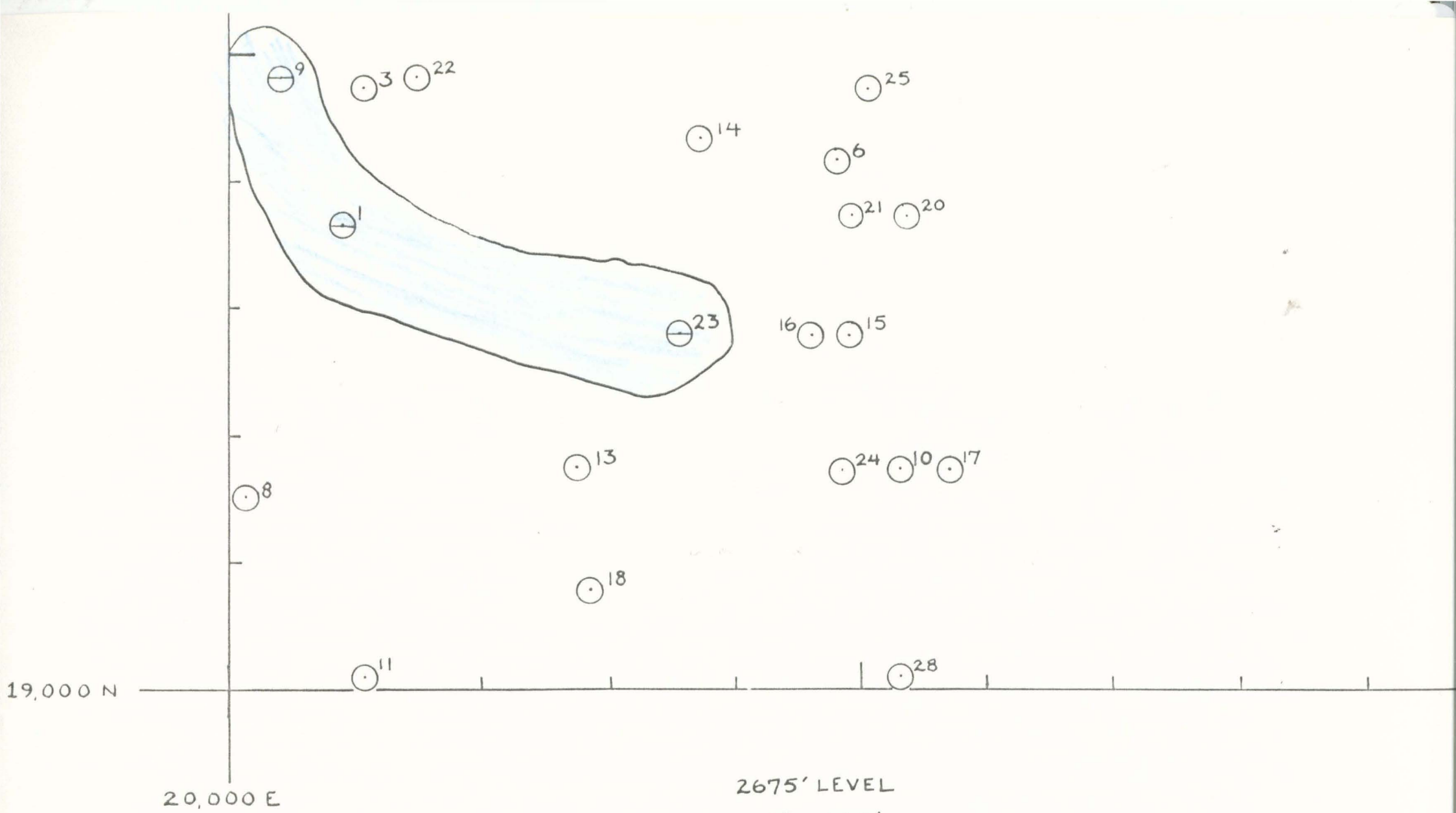
0



20,000E

2700' LEVEL
1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRAD</u>
1%	150,750	1.91
3%	38,000	3.85
5%	0	0



2675' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

110,250

2.02%

3%

0

0

5%

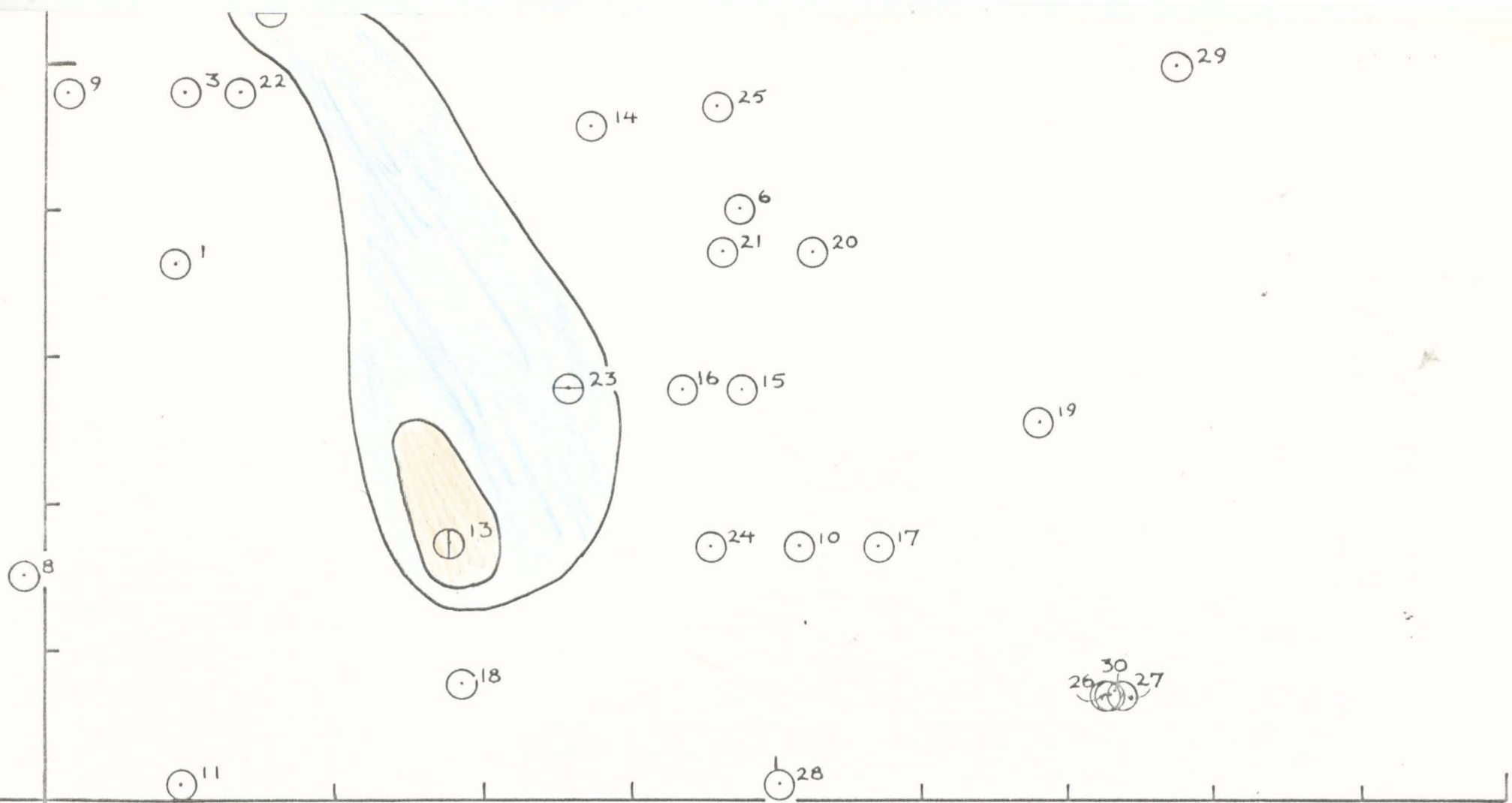
0

0

10%

0

0



20,000 E

2650' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

135,750

2.71%

3%

13,500

4.52%

5%

0

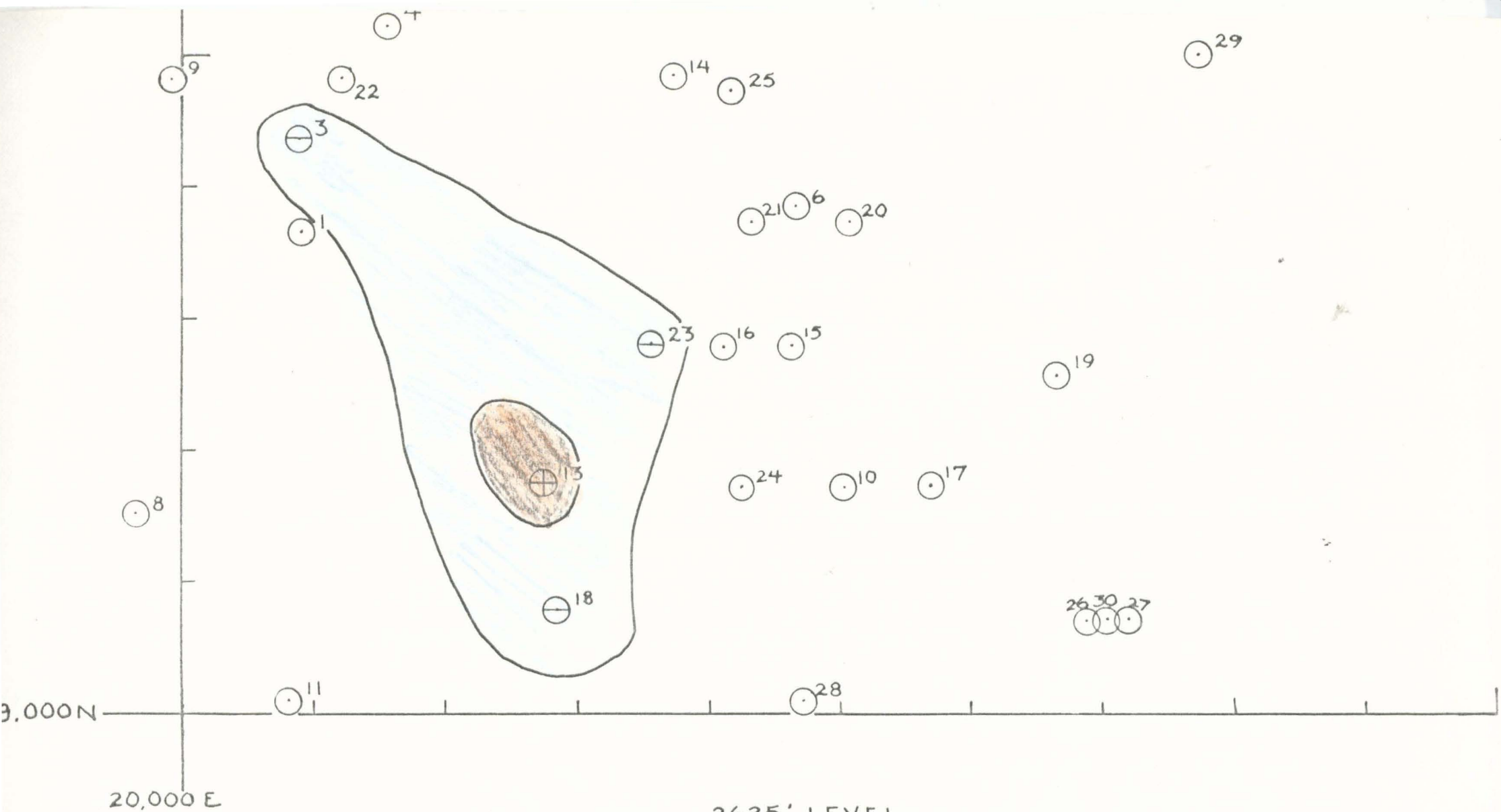
0

10%

0

0

5



2625' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

169,500

2.37%

3%

14,000

6.96%

5%

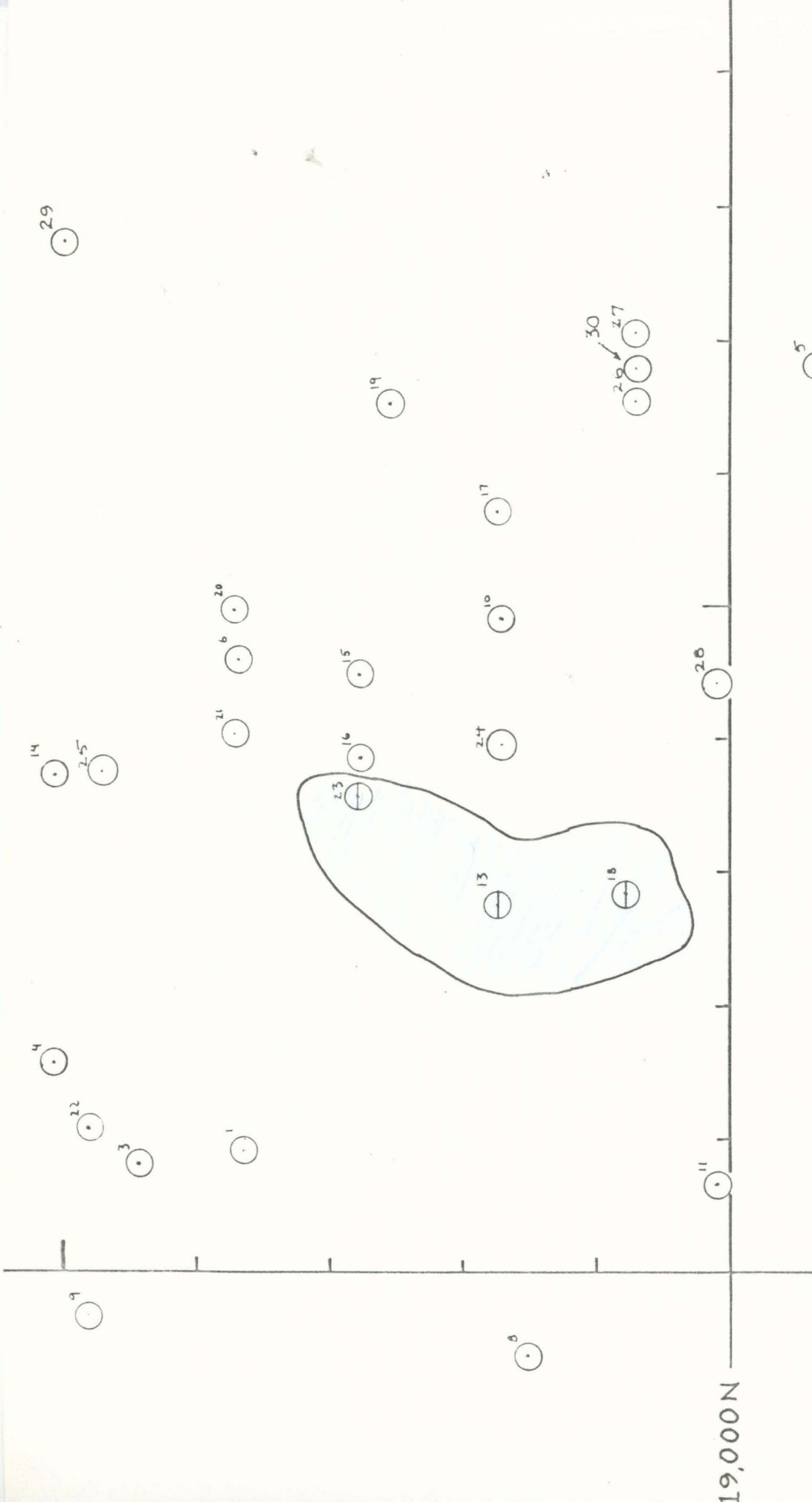
14,000

6.96%

10%

0

0

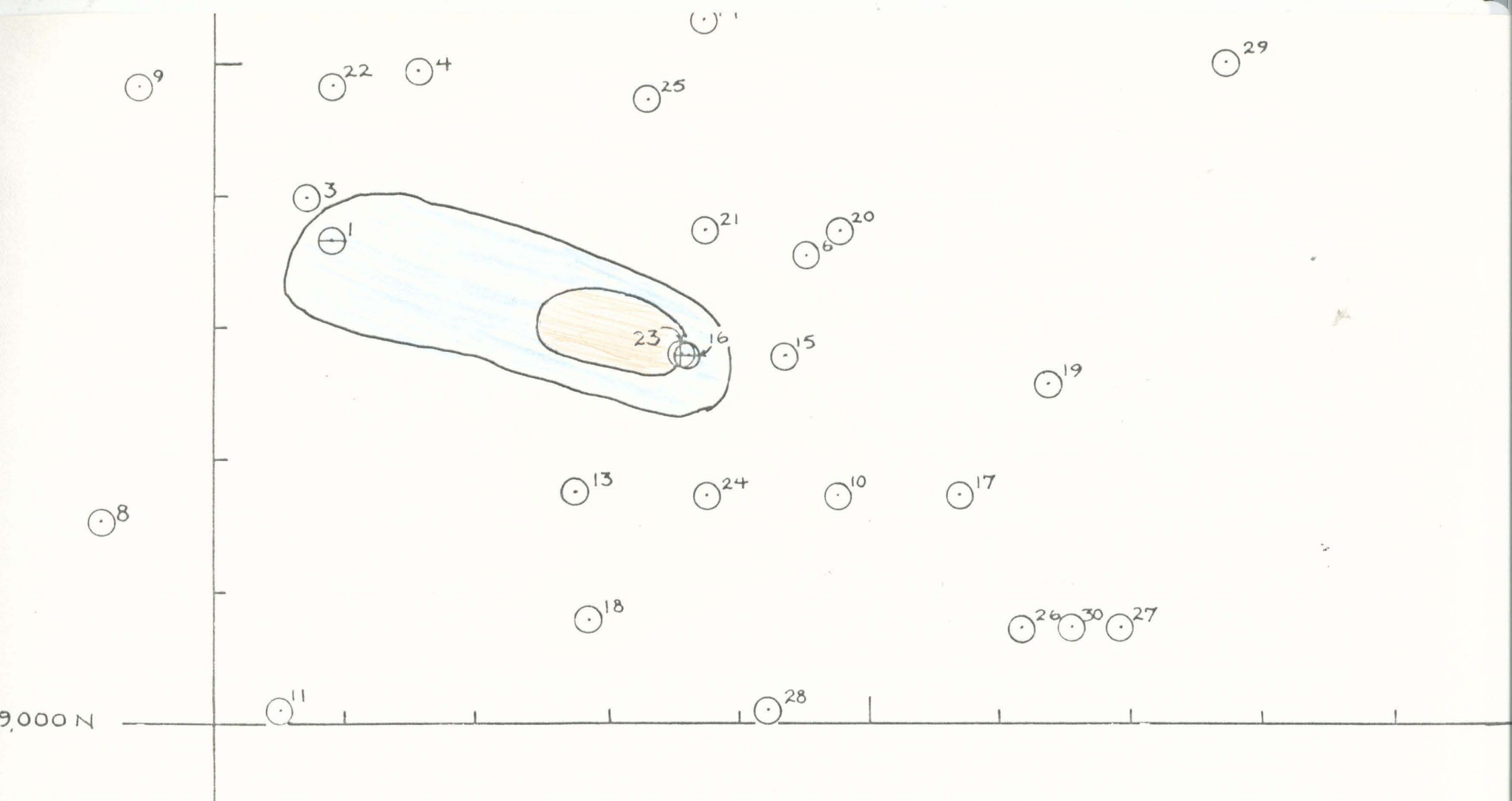


5

2600' LEVEL

1" = 100'

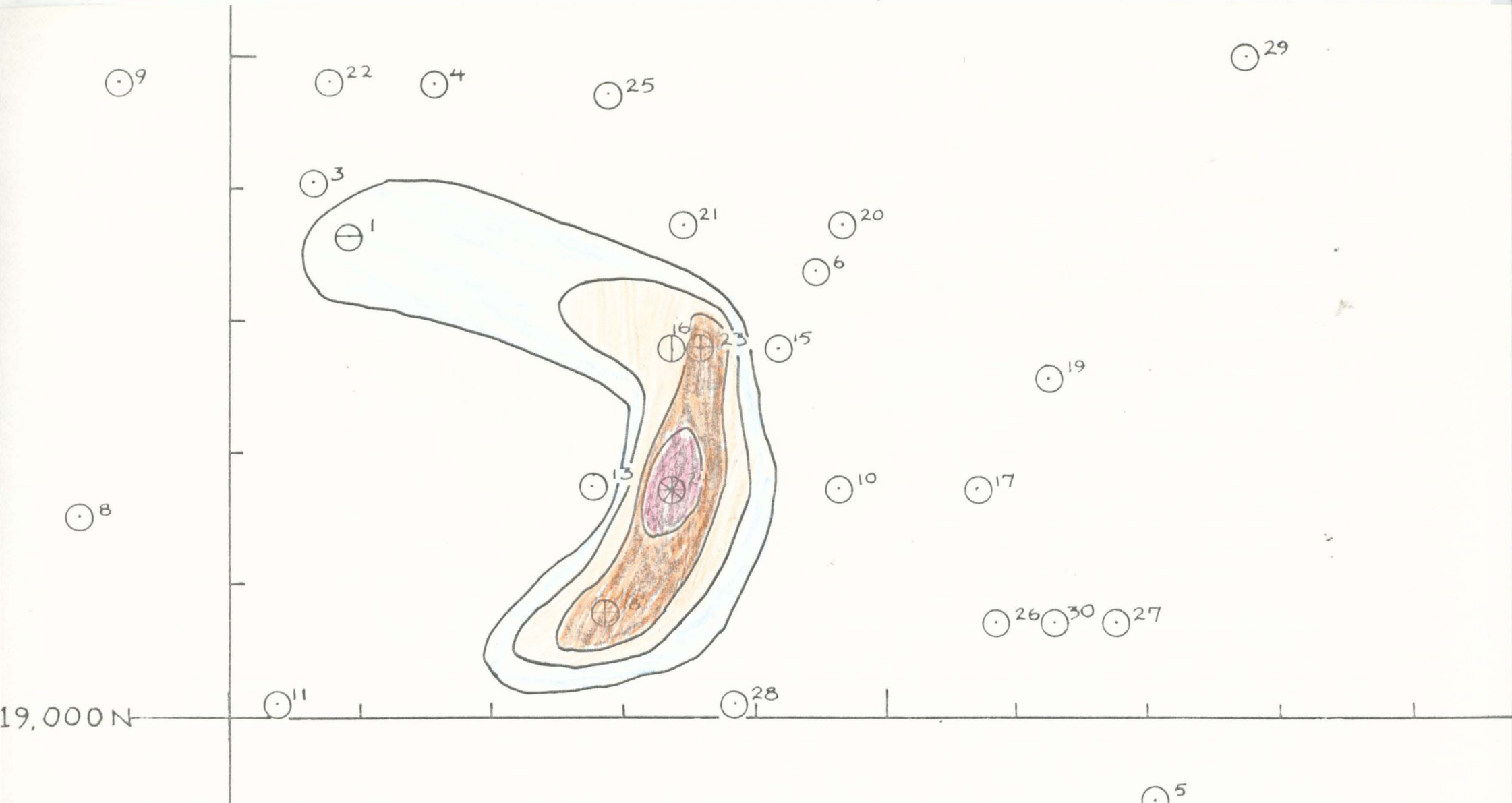
CUT-OFF	TONS	GRADE
1%	76,000	2.36%
3%	0	0
5%	0	0
10%	0	0



2575' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	81,750	2.90%
3%	13,750	4.94%
5%	0	0
10%	0	0



CUT-OFF

TONS

GRADE

1%

152,000

3.29%

3%

69,250

5.52%

5%

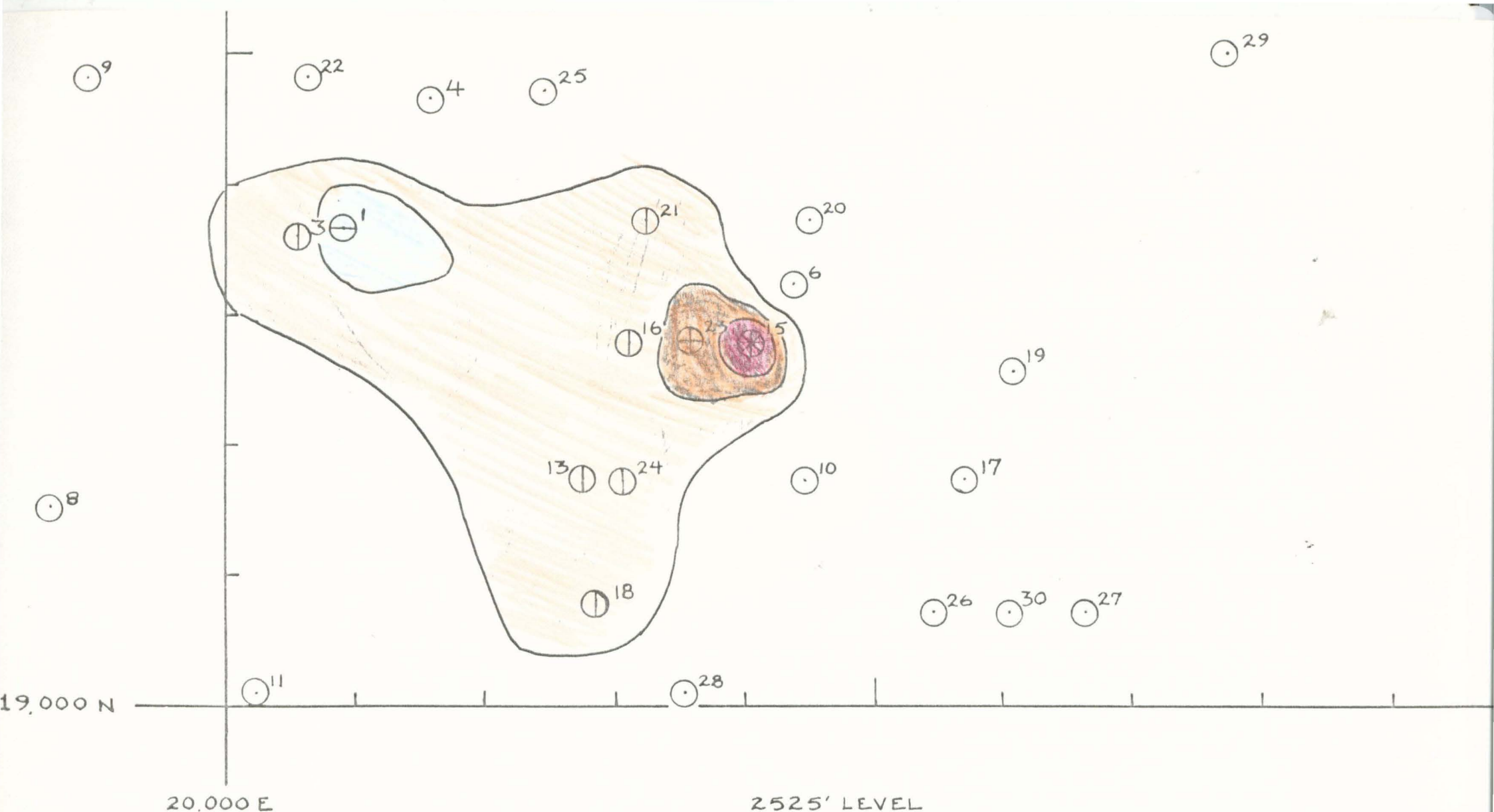
33,000

6.67%

10%

6,250

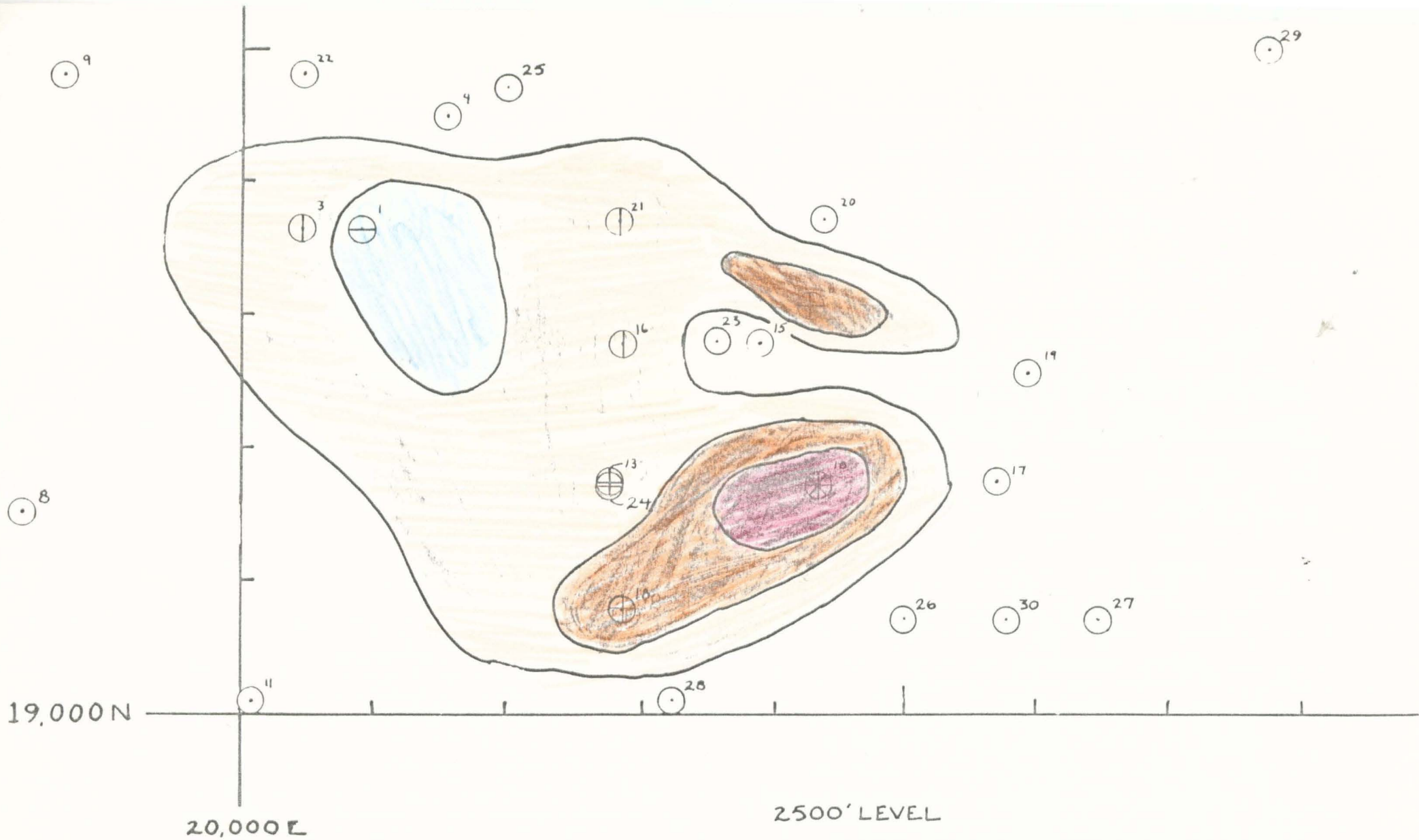
12.24%



2525' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	244,000	4.37%
3%	228,250	4.47%
5%	17,000	7.62%
10%	3,750	10.91%



2500' LEVEL

1" = 100'

CUT - OFF

TONS

GRADE

1%

402,250

4.27%

3%

363,500

4.57%

5%

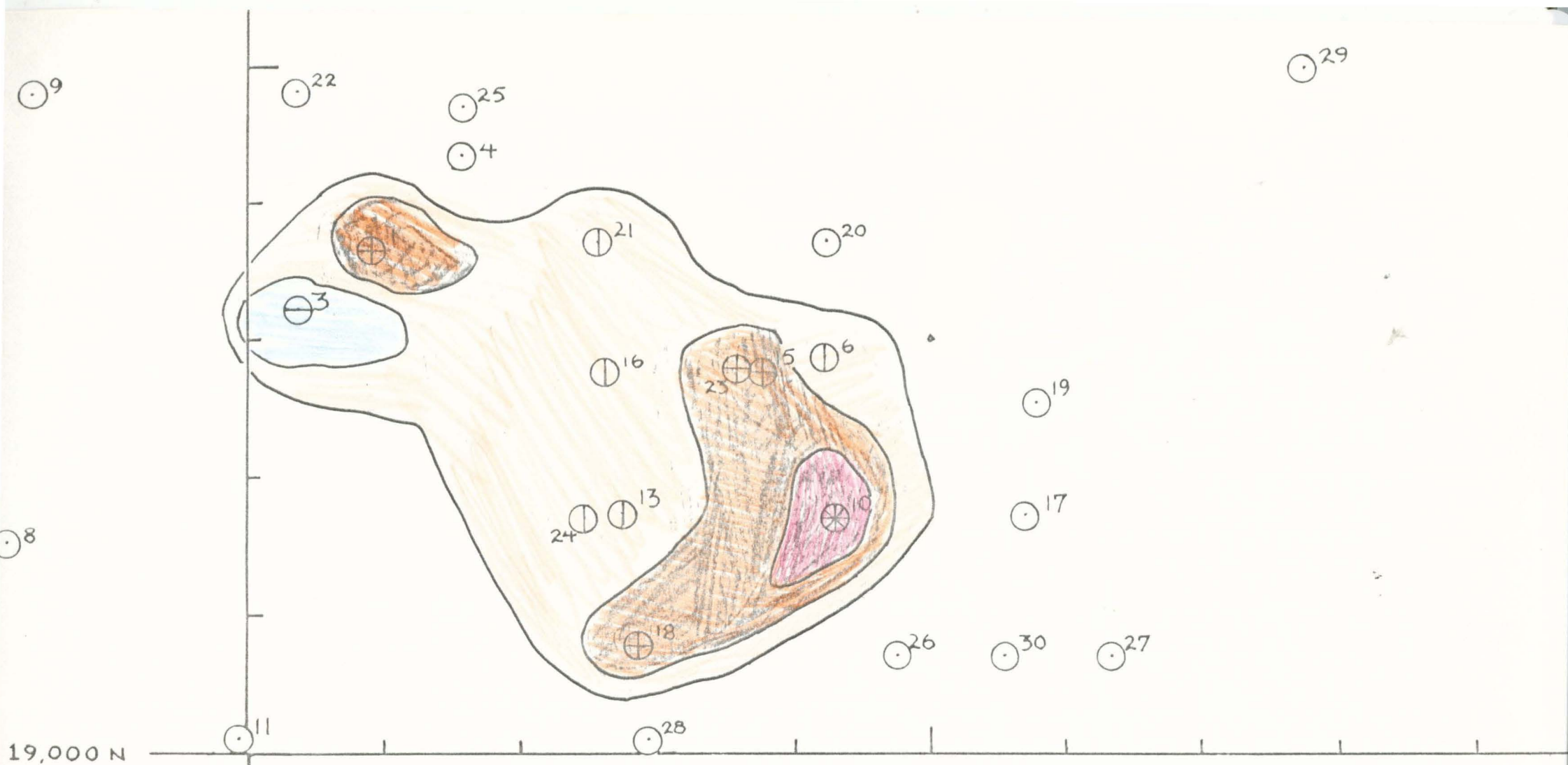
74,500

8.68%

10%

15,000

10.92%



2475' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

295,750

4.72%

3%

280,000

4.88%

5%

86,750

7.30%

10%

11,500

11.10%

29

8

5

25

4

20

19

17

27

30

23

6

15

13

18

21

16

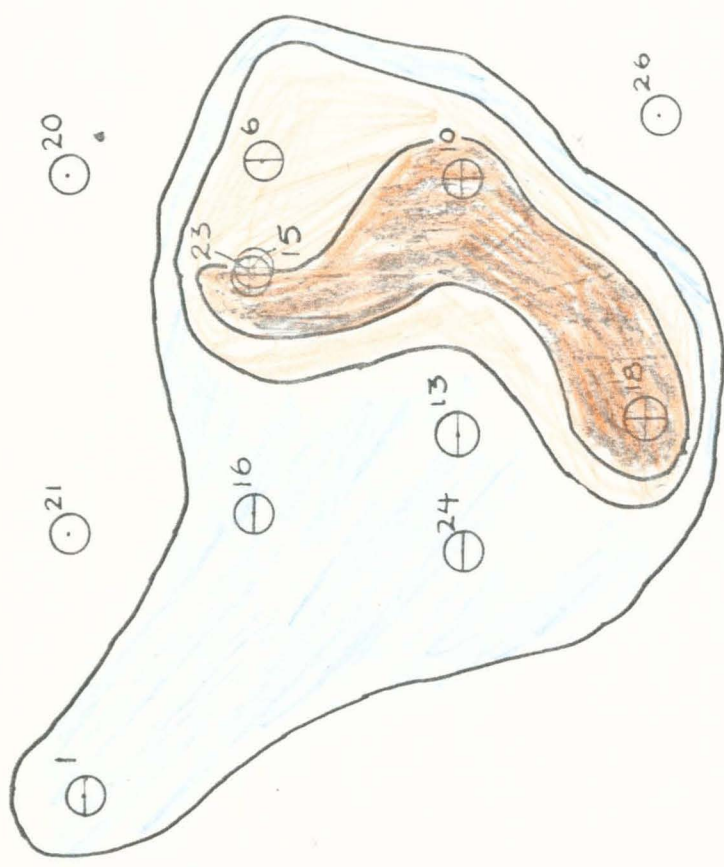
24

28

22

3

9



2450' LEVEL

1" = 100'

GRADE

3.43%

5.48%

7.51%

0

TONS

219,250

90,250

39,500

0

CUT-OFF

1%

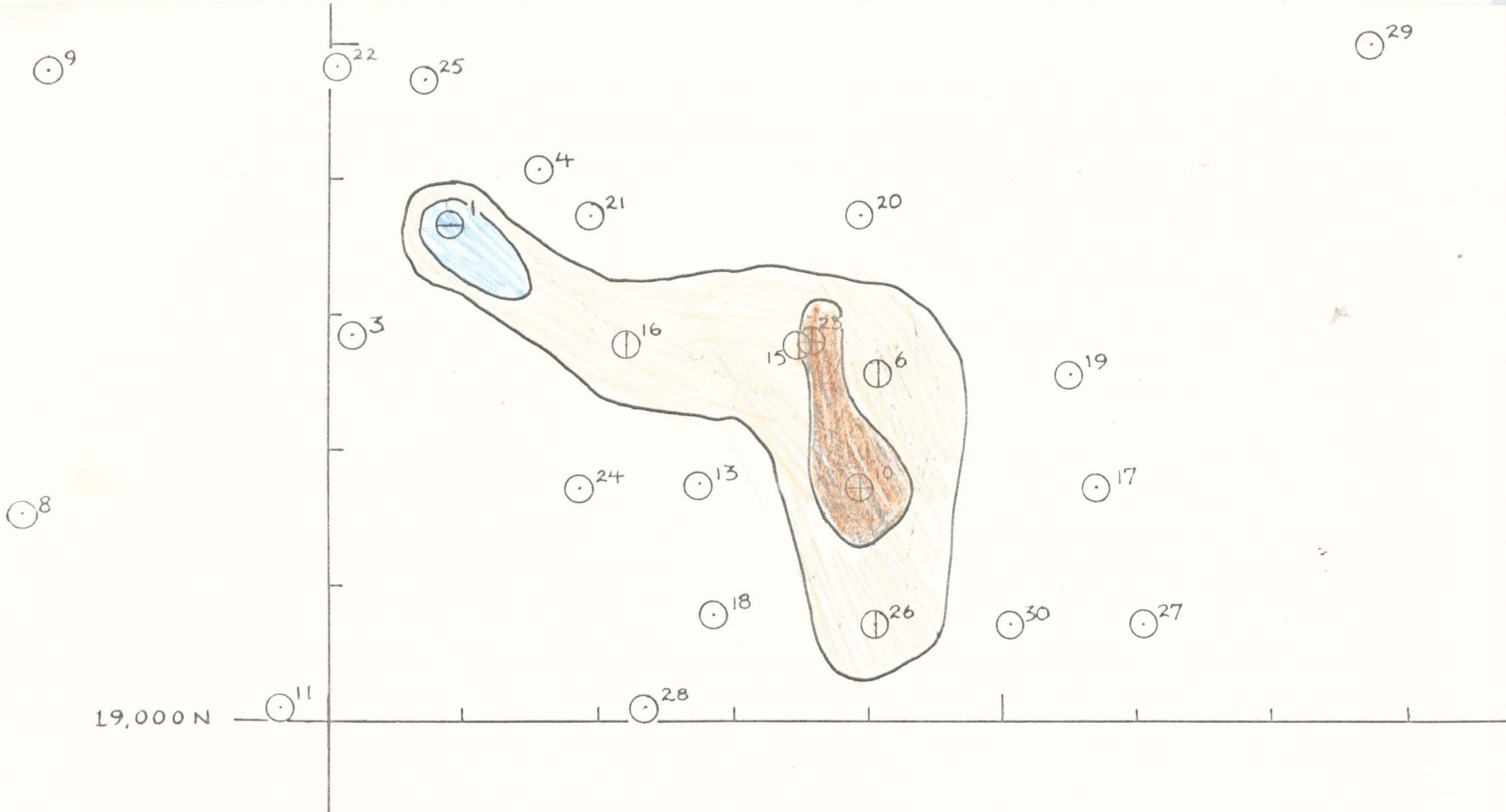
3%

5%

10%

19,000 N

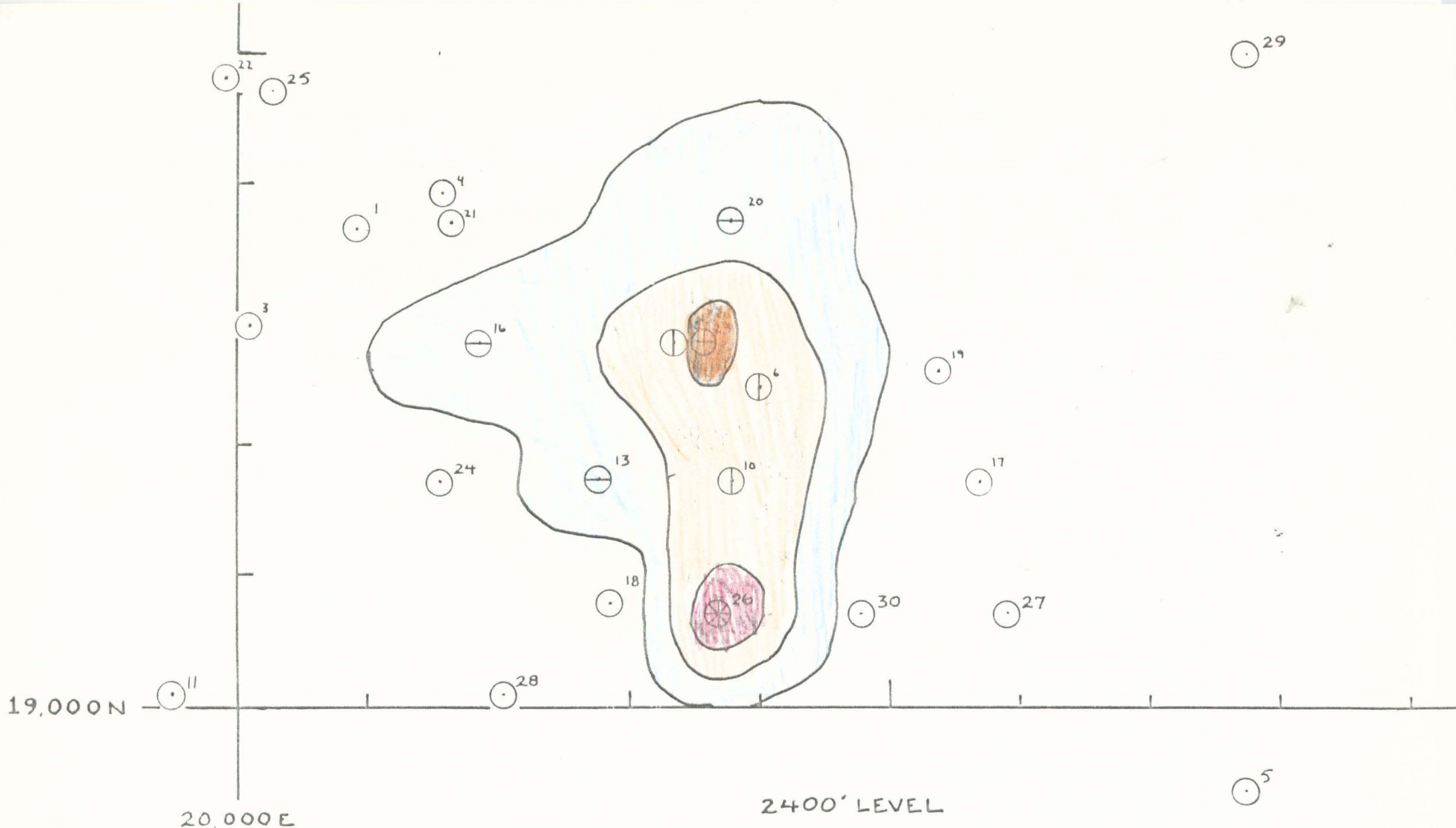
20,000 E



2425' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	146,750	4.05%
3%	137,250	4.12%
5%	18,500	7.48%
10%	0	0



2400' LEVEL
1" = 100'

CUT-OFF

TONS

GRADE

1%

261,250

2.67%

3%

90,000

4.89%

5%

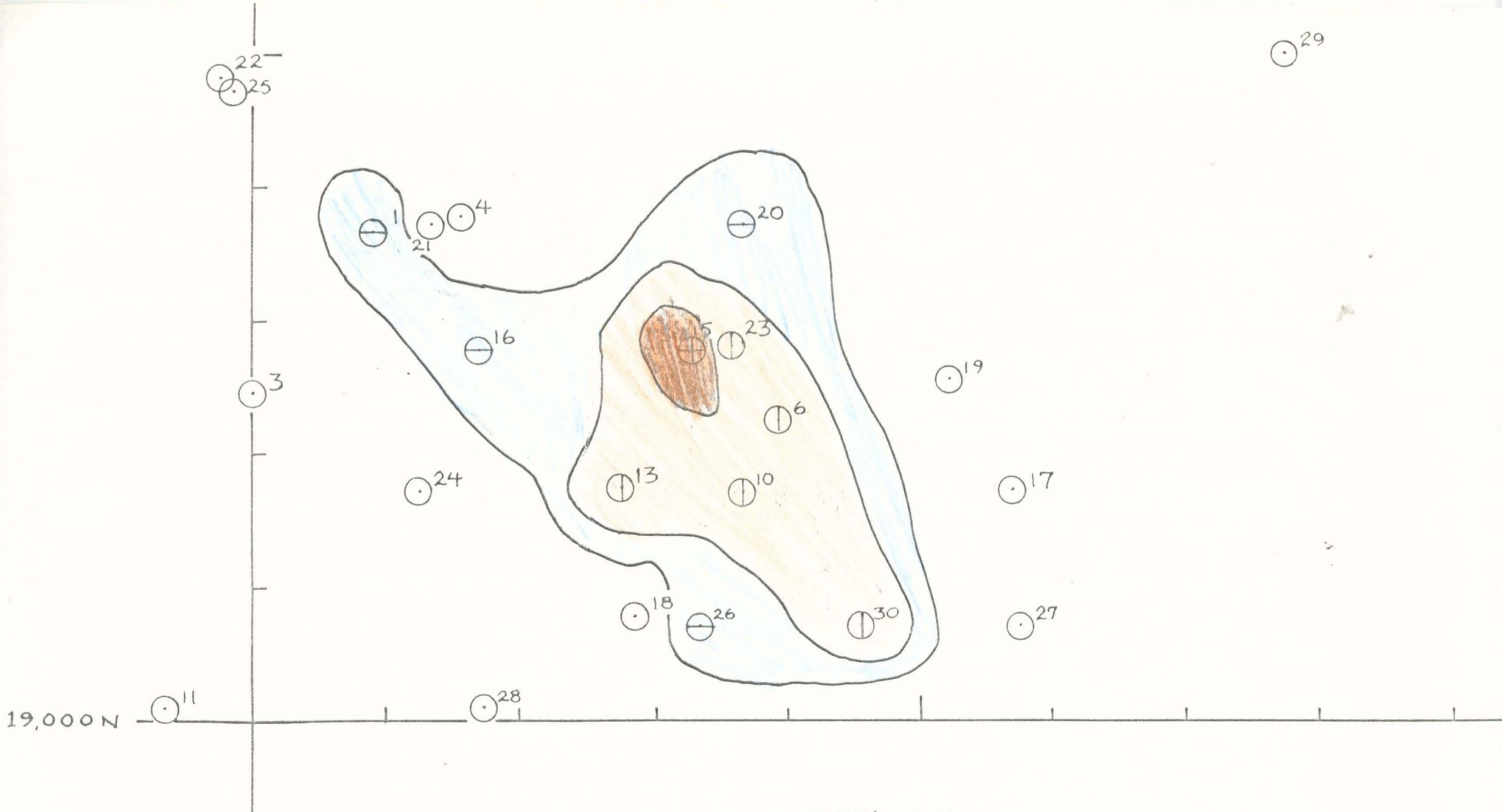
14,250

8.31%

10%

9,000

10.22%



2375' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

238,750

2.92%

3%

102,750

4.42%

5%

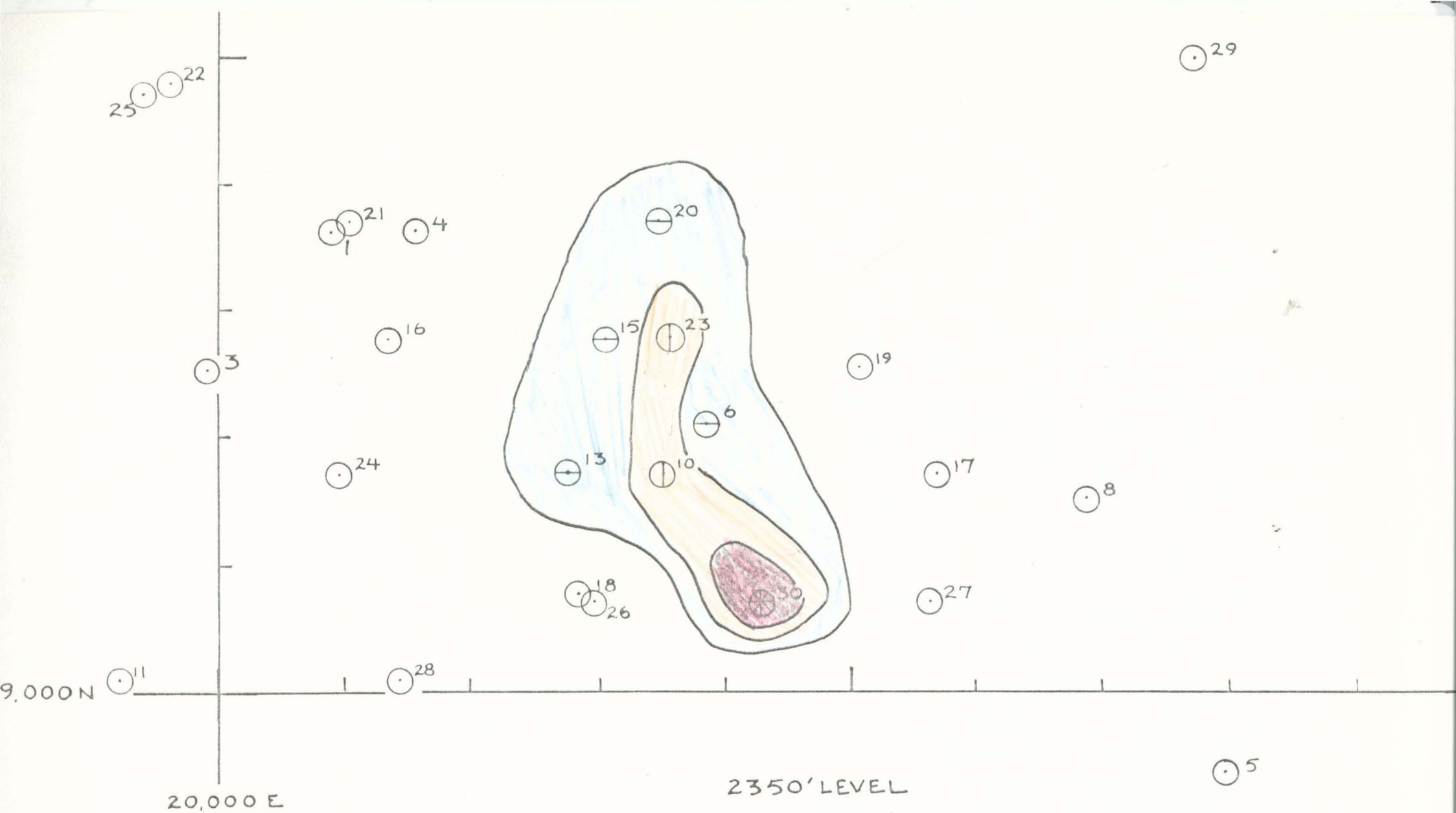
8,000

5.88%

10%

0

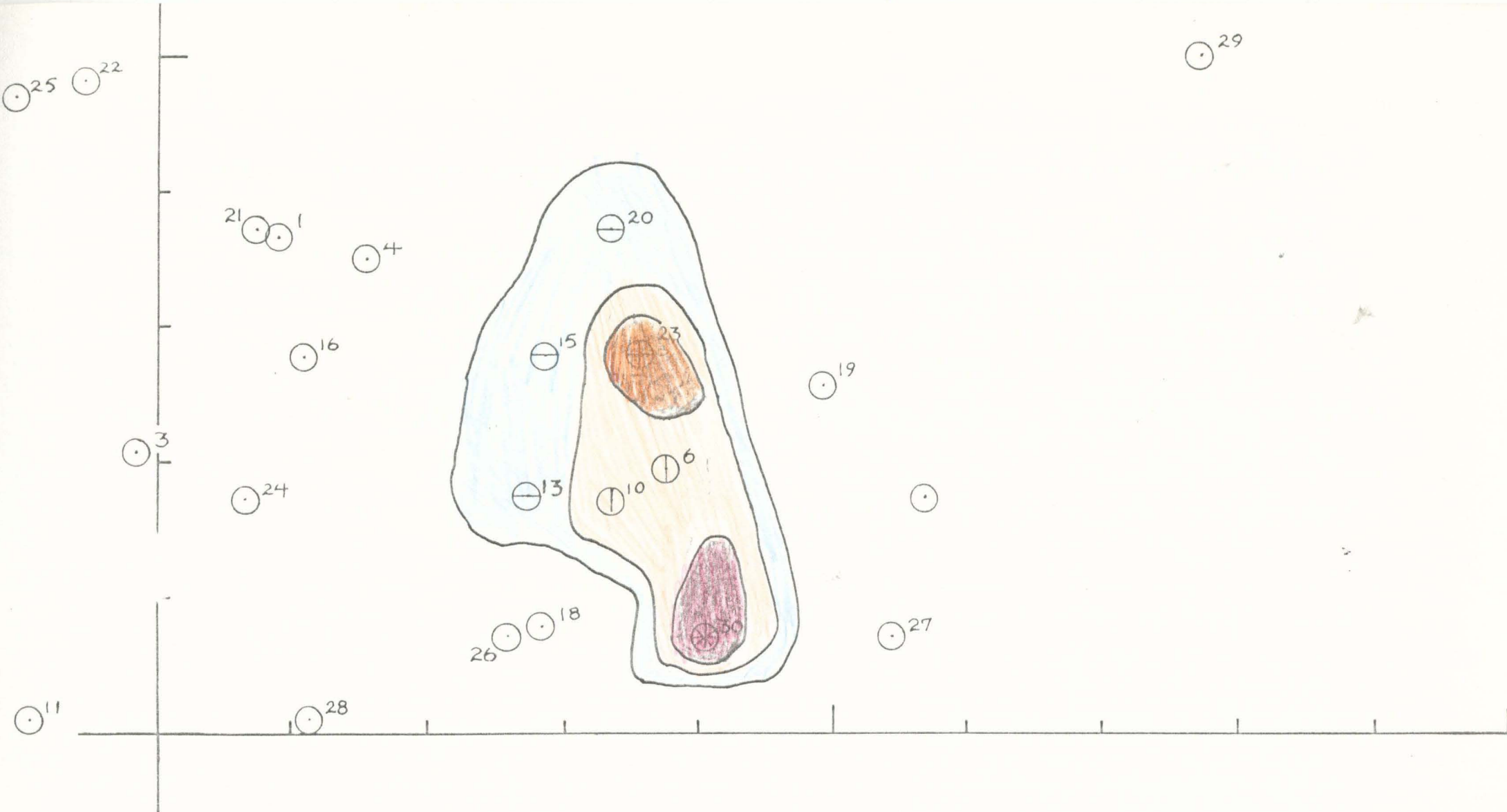
0



2350' LEVEL

1" = 100'

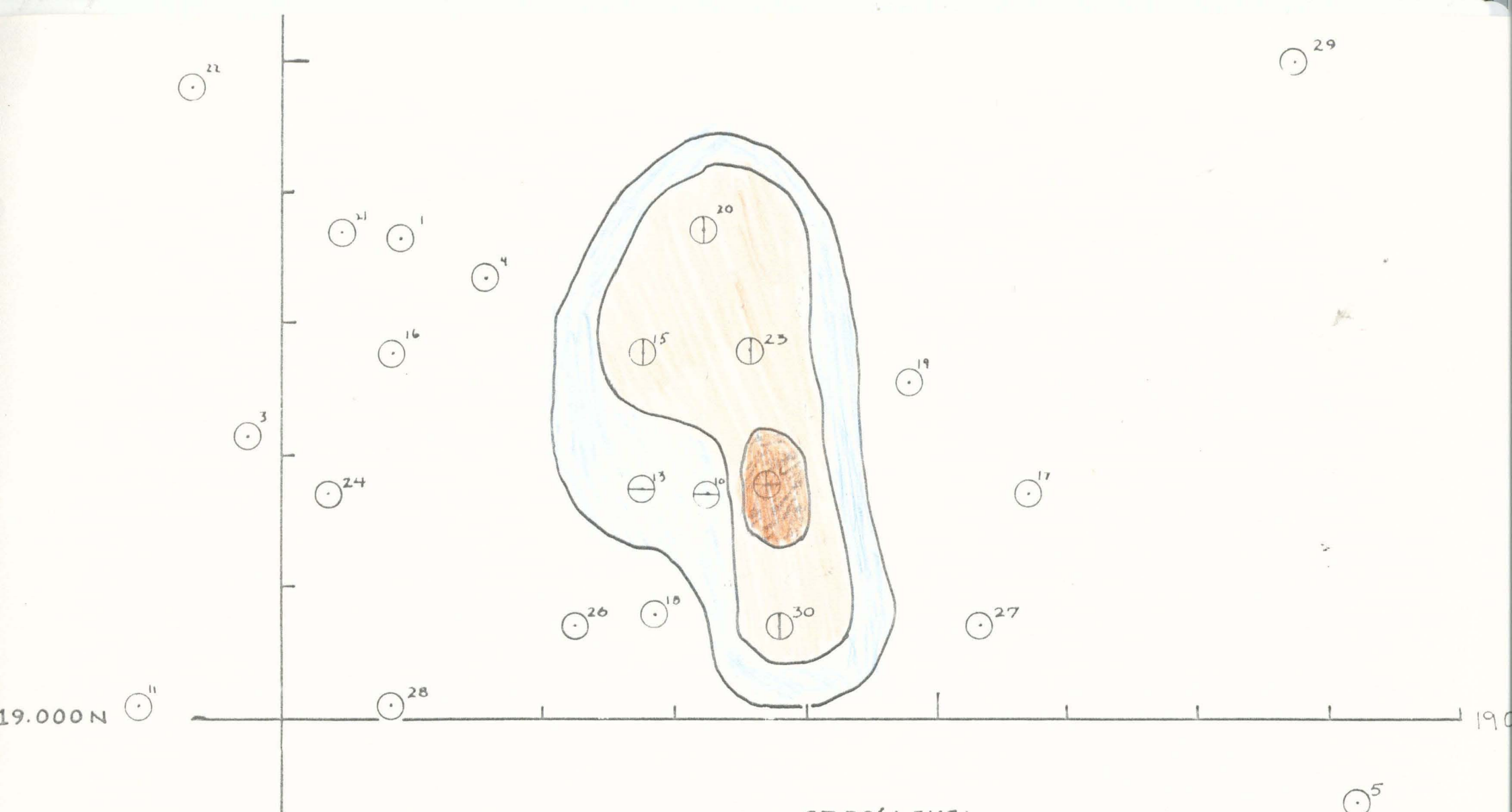
<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	153,750	3.17%
3%	44,250	5.41%
5%	7,750	12.59%
10%	7,750	12.59%



2325' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	151,000	3.68%
3%	69,000	5.55%
5%	19,250	8.26%
10%	9,250	11.38%



CUT-OFF

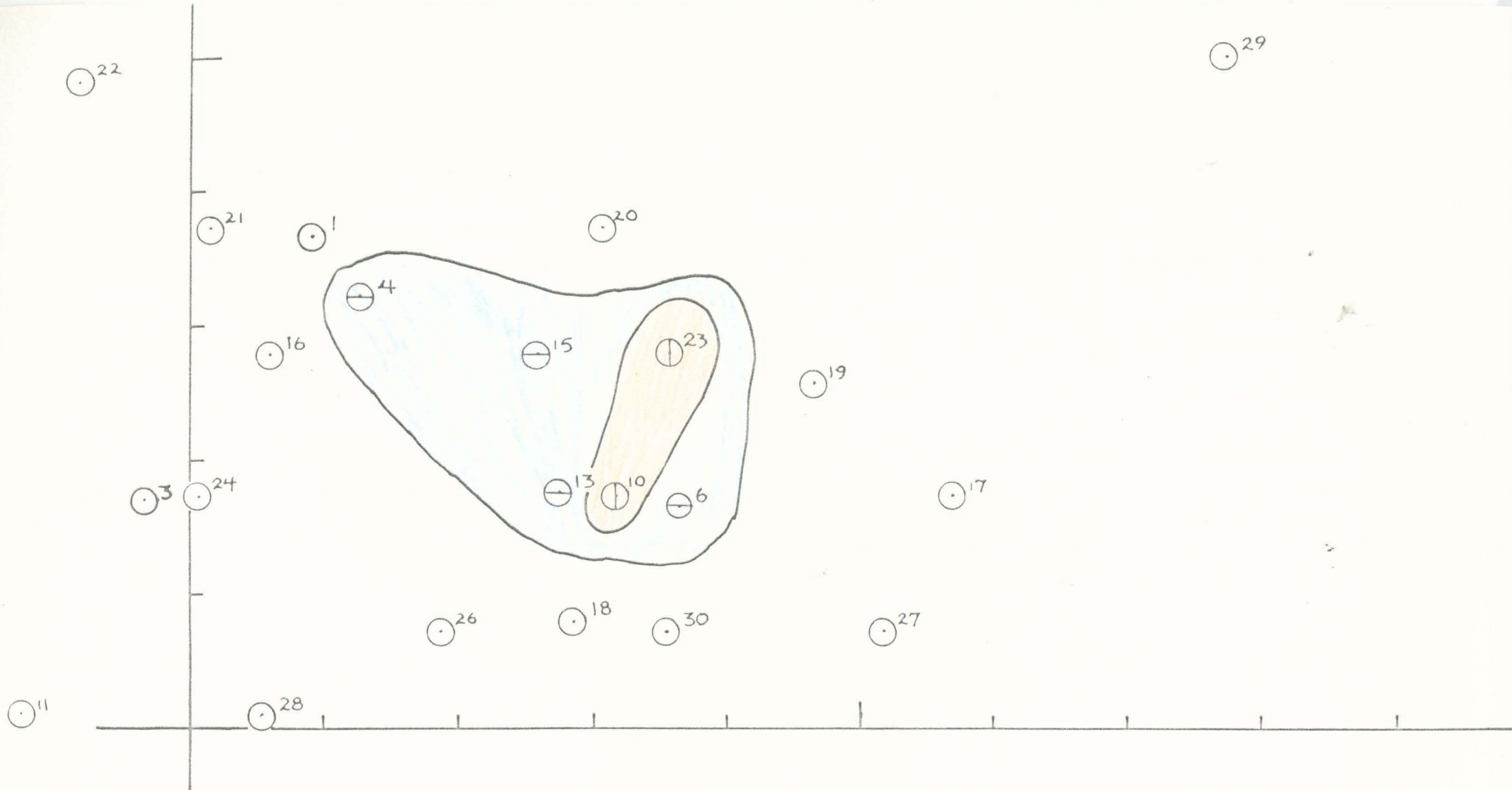
- 1%
- 3%
- 5%
- 10%

TONS

- 193,500
- 102,000
- 9,500
- 0

GRADE

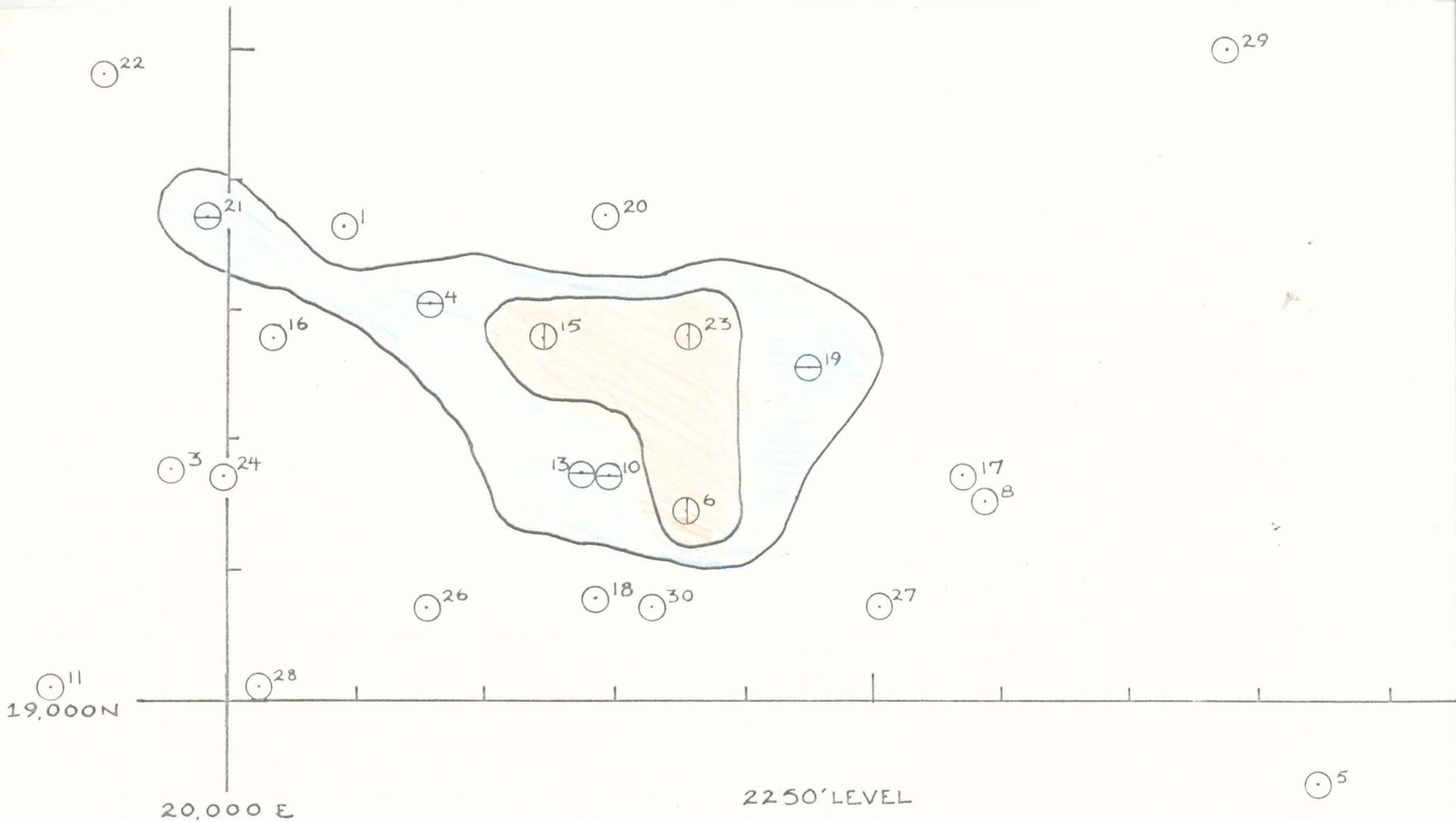
- 2.88%
- 3.87%
- 5.55%
- 0



2275' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	129,250	2.78%
3%	24,250	3.67%
5%	0	0
10%	0	0



2250' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

186,250

2.48%

3%

56,000

3.76%

5%

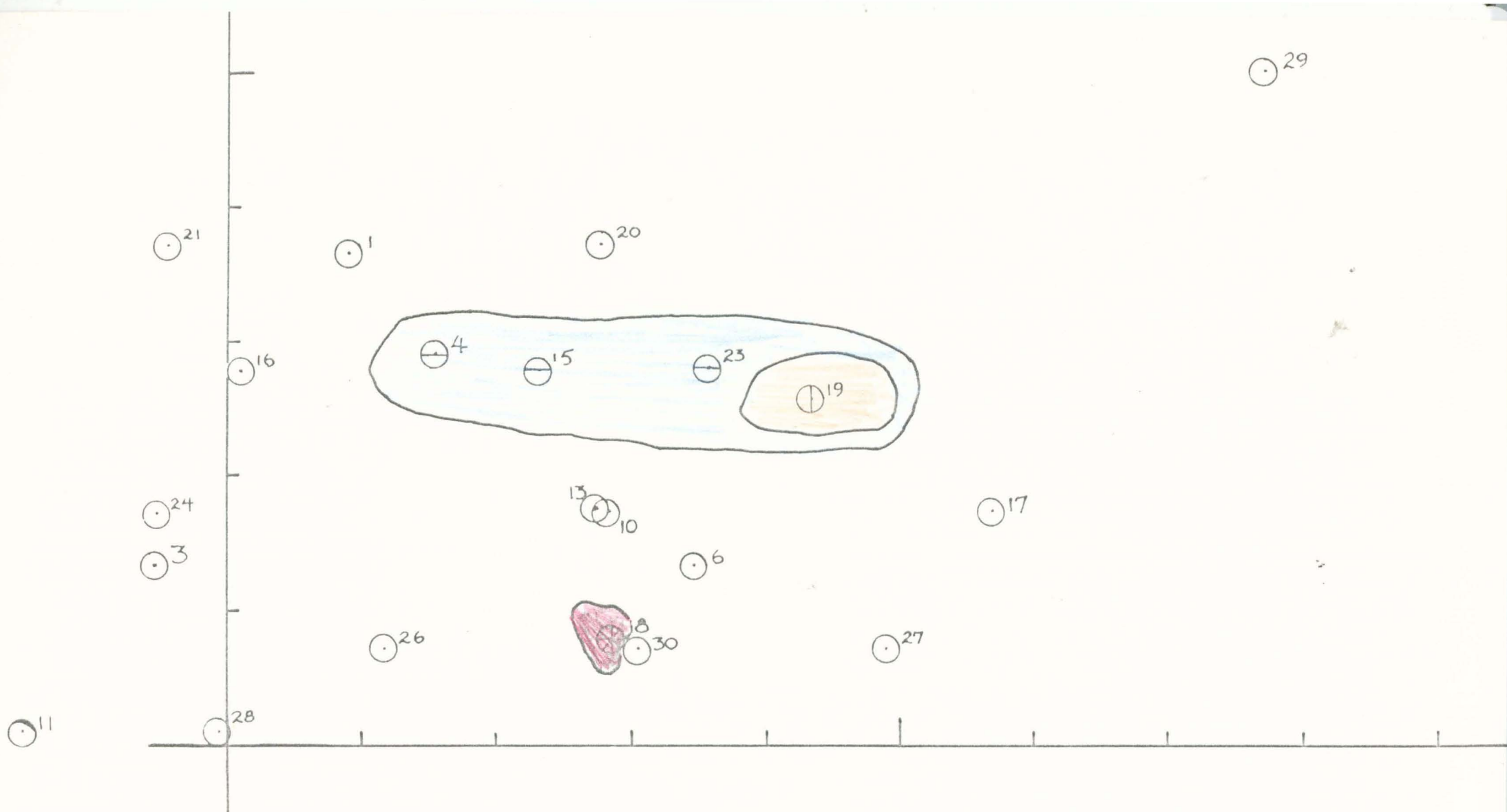
0

0

10%

0

0



2225' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

88,000

2.83%

3%

17,250

5.39%

5%

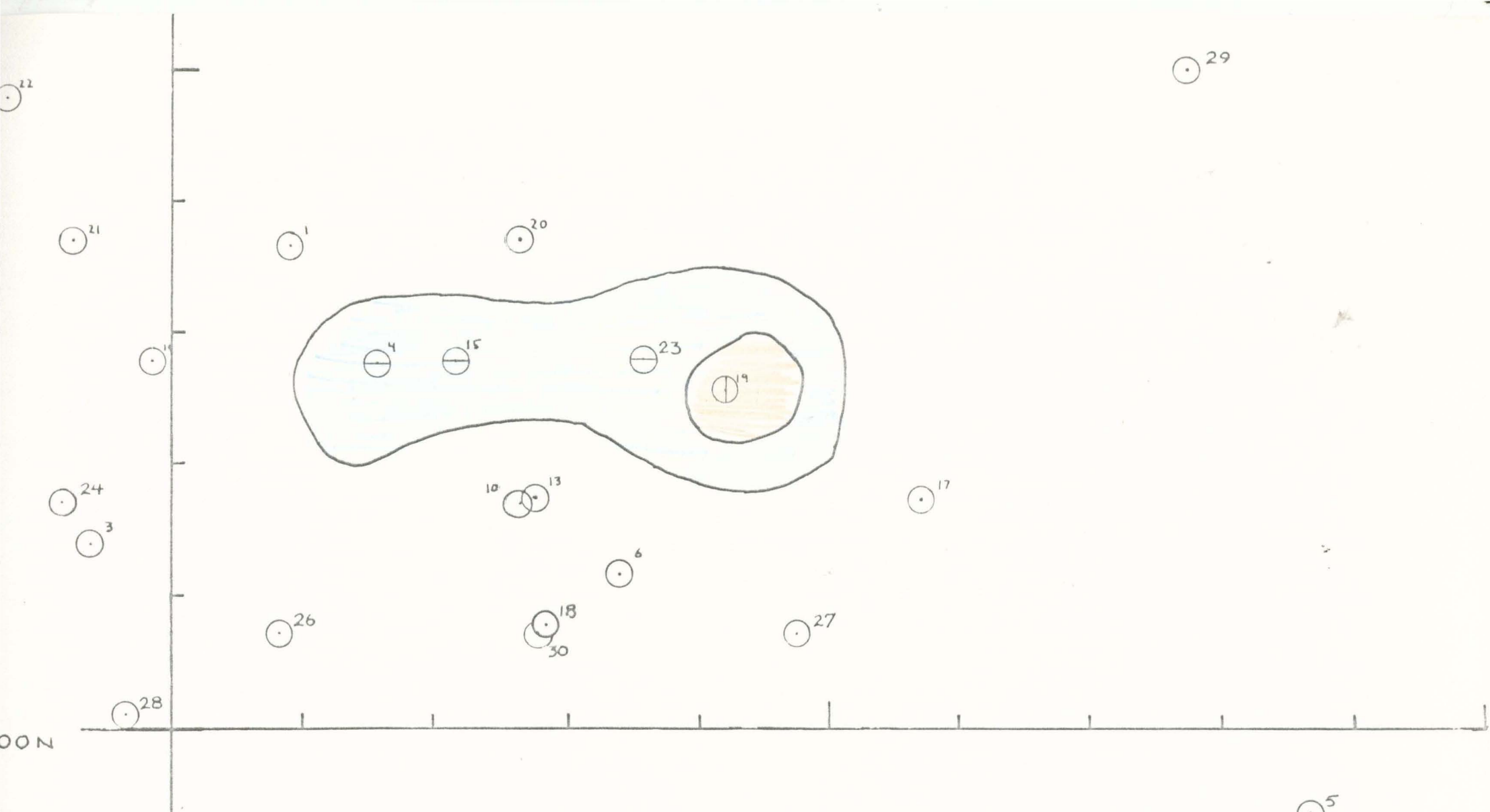
3,500

12.83%

10%

3,500

12.83%



20,000 E

2200' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

12,200

1.75%

3%

14,250

3.07%

5%

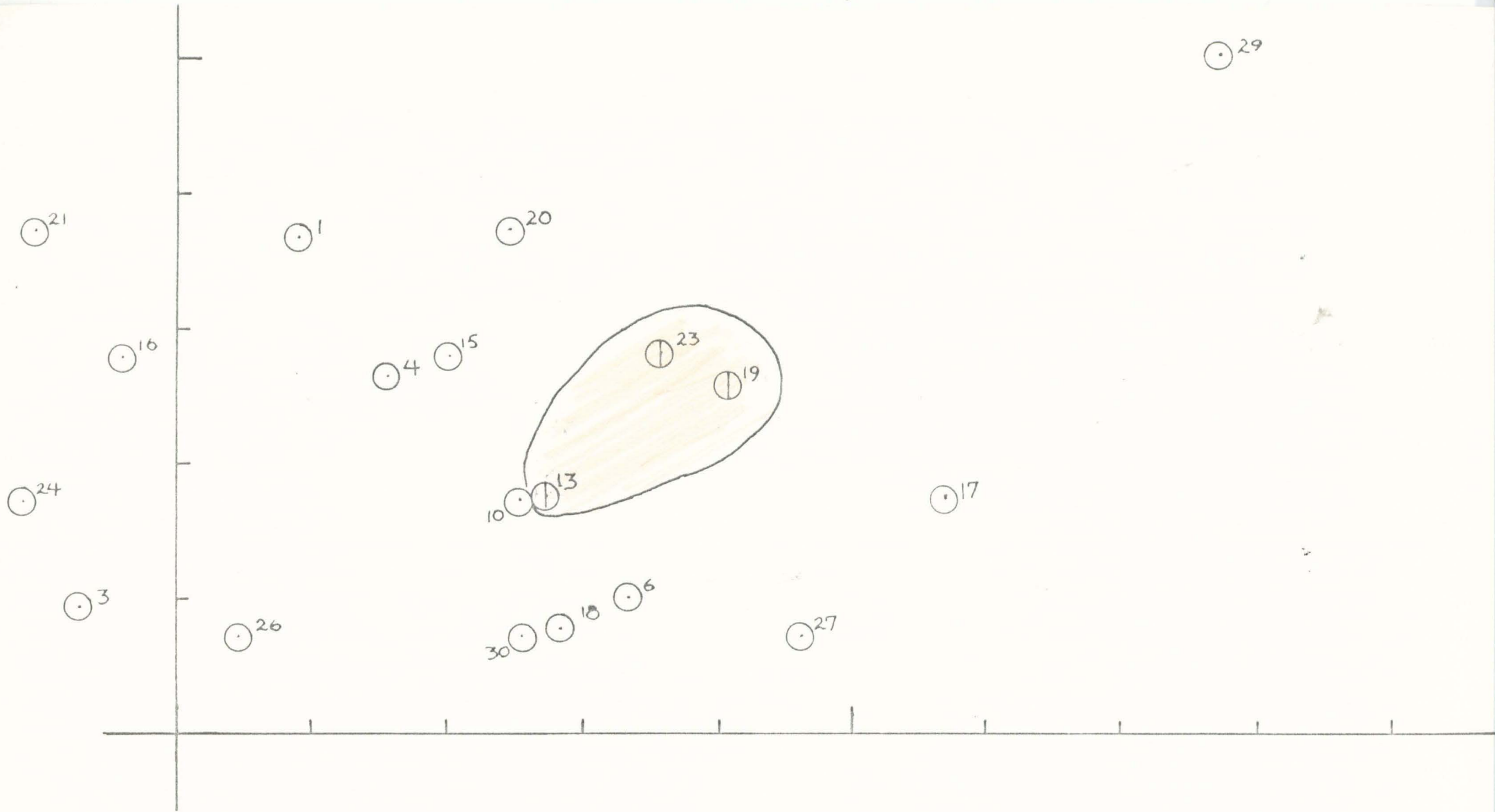
0

0

10%

0

0



2175' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

47,750

3.62%

3%

47,750

3.62%

5%

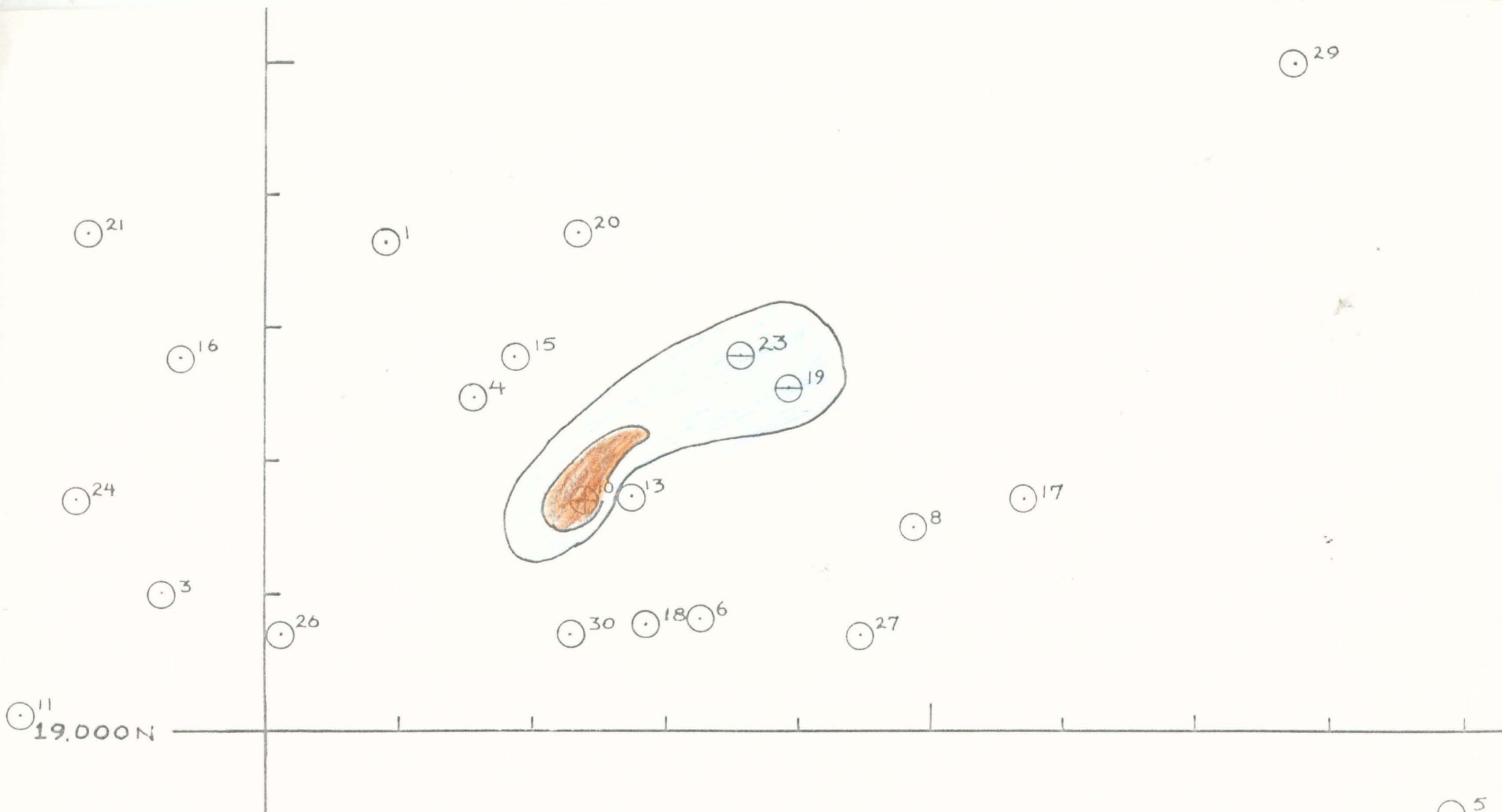
0

0

10%

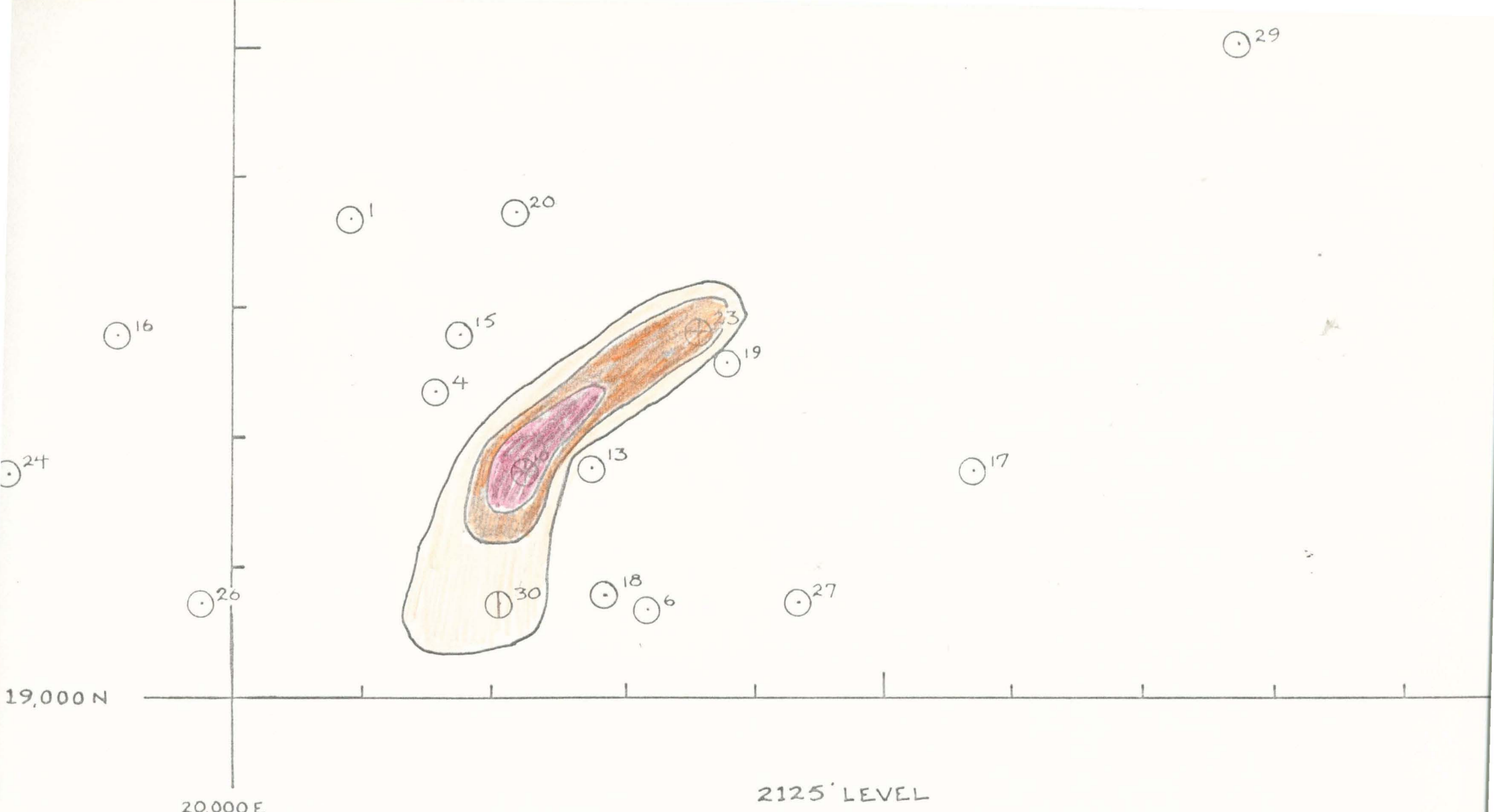
0

0



2150' LEVEL
1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	50,750	3.38%
3%	6,500	8.11%
5%	6,500	8.11%
10%	0	0



2125' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	66,250	5.75%
3%	66,250	5.75%
5%	27,750	8.17%
10%	8,250	14.20%

29

20

1

21

15

23

16

19



13

17

24

27

26

3

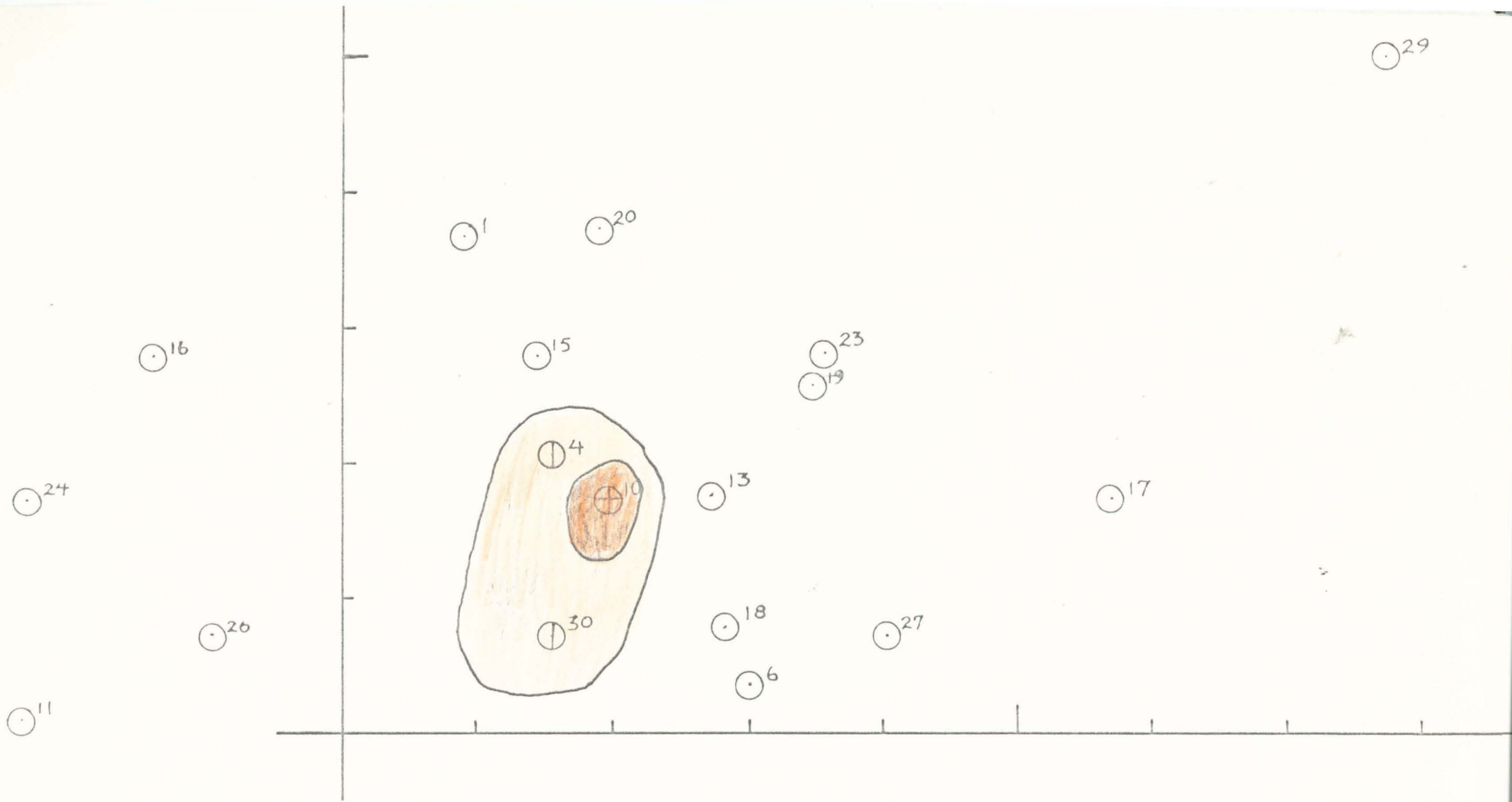
11

2100' LEVEL
1" = 100'

20,000 E

19,000 N

CUT-OFF	TONS	GRADE
1%	49,500	4.52%
3%	49,500	4.52%
5%	7,750	6.11%
10%	0	0



2075' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

60,500

4.55%

3%

60,500

4.55%

5%

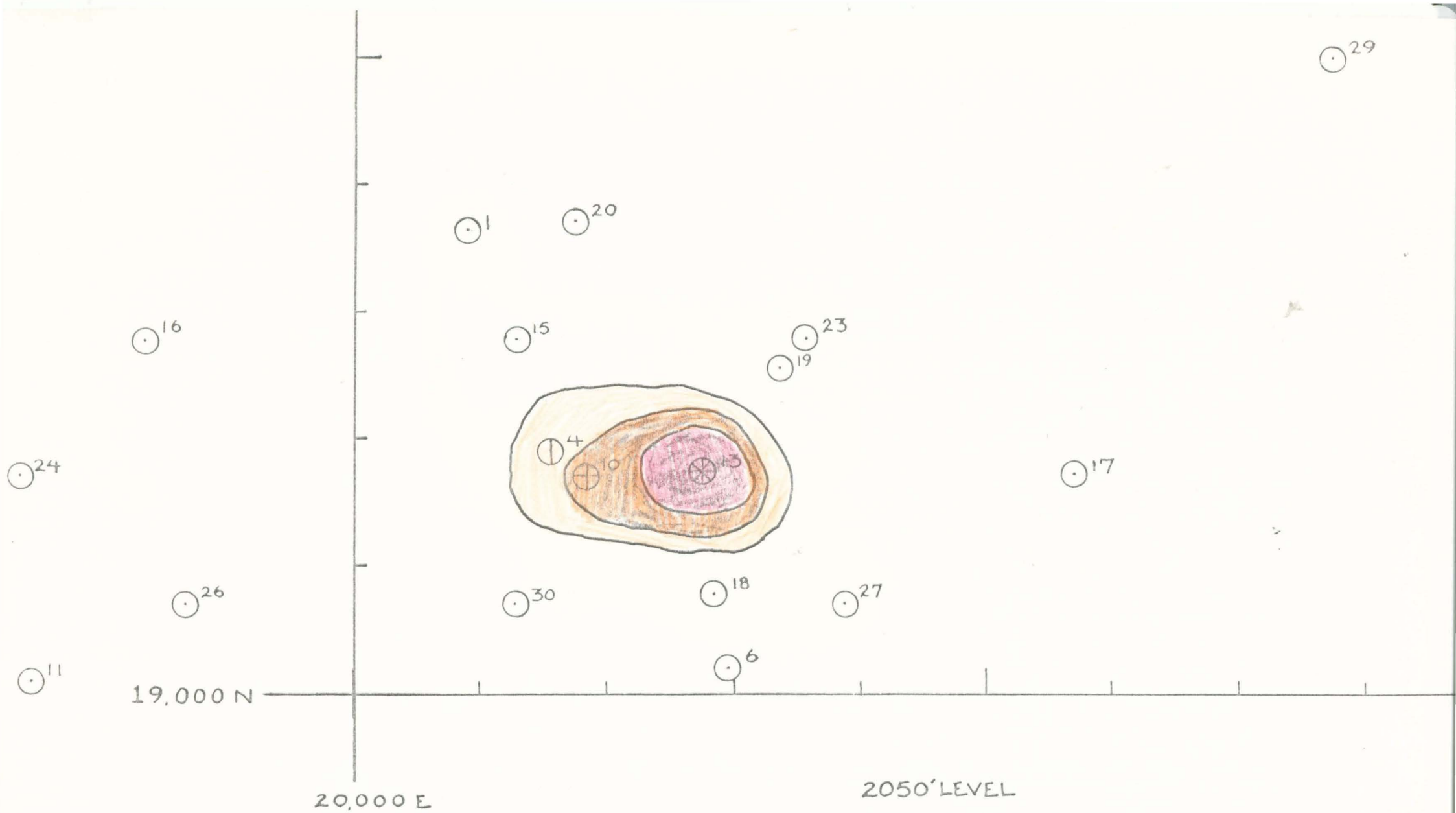
7,500

6.83%

10%

0

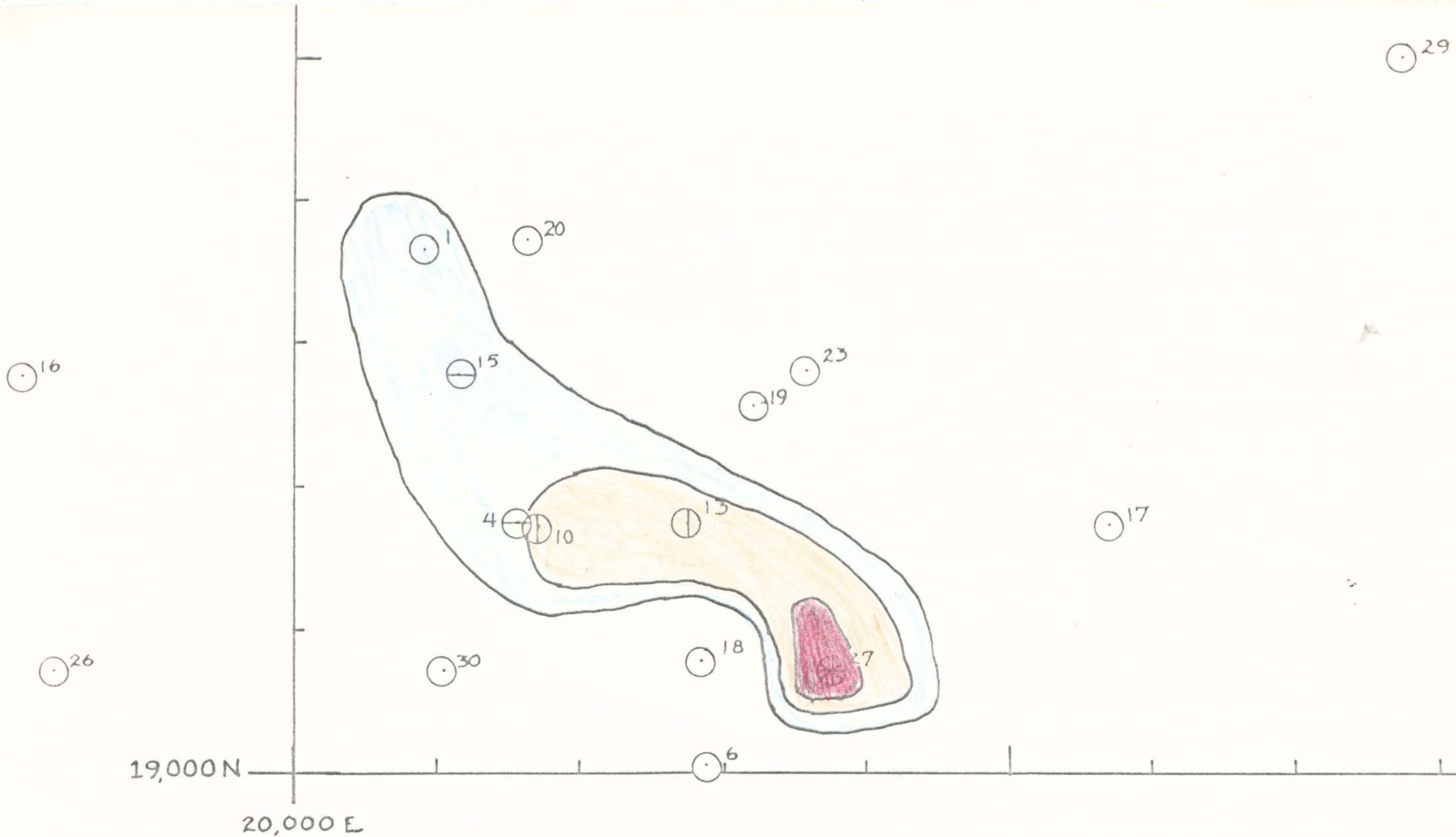
0



2050' LEVEL

1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	58,500	5.93%
3%	58,500	5.93%
5%	30,000	7.93%
10%	11,500	10.36%



2025' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

144,750

3.51%

3%

52,000

5.97%

5%

8,750

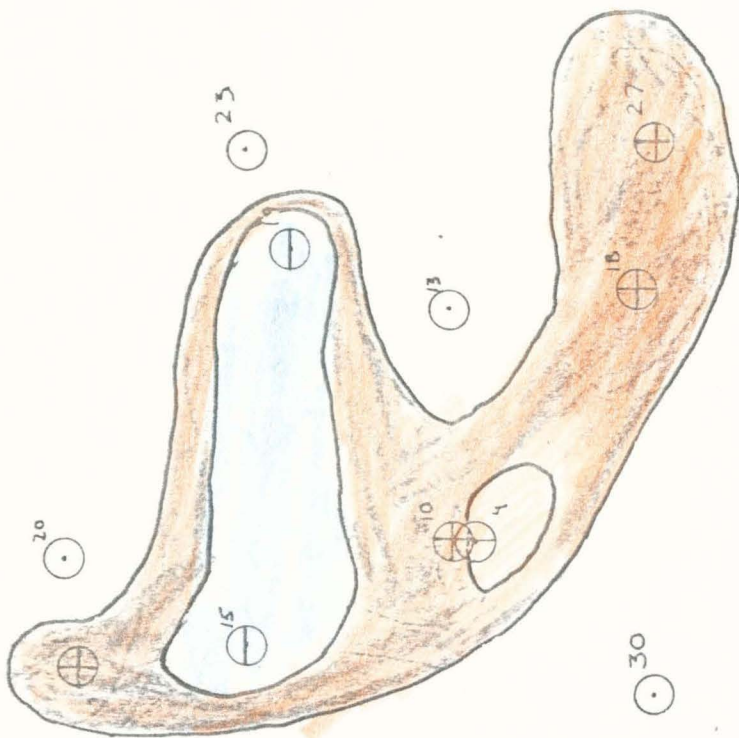
11.22%

10%

8,750

11.22%

29



2000' LEVEL

1" = 100'

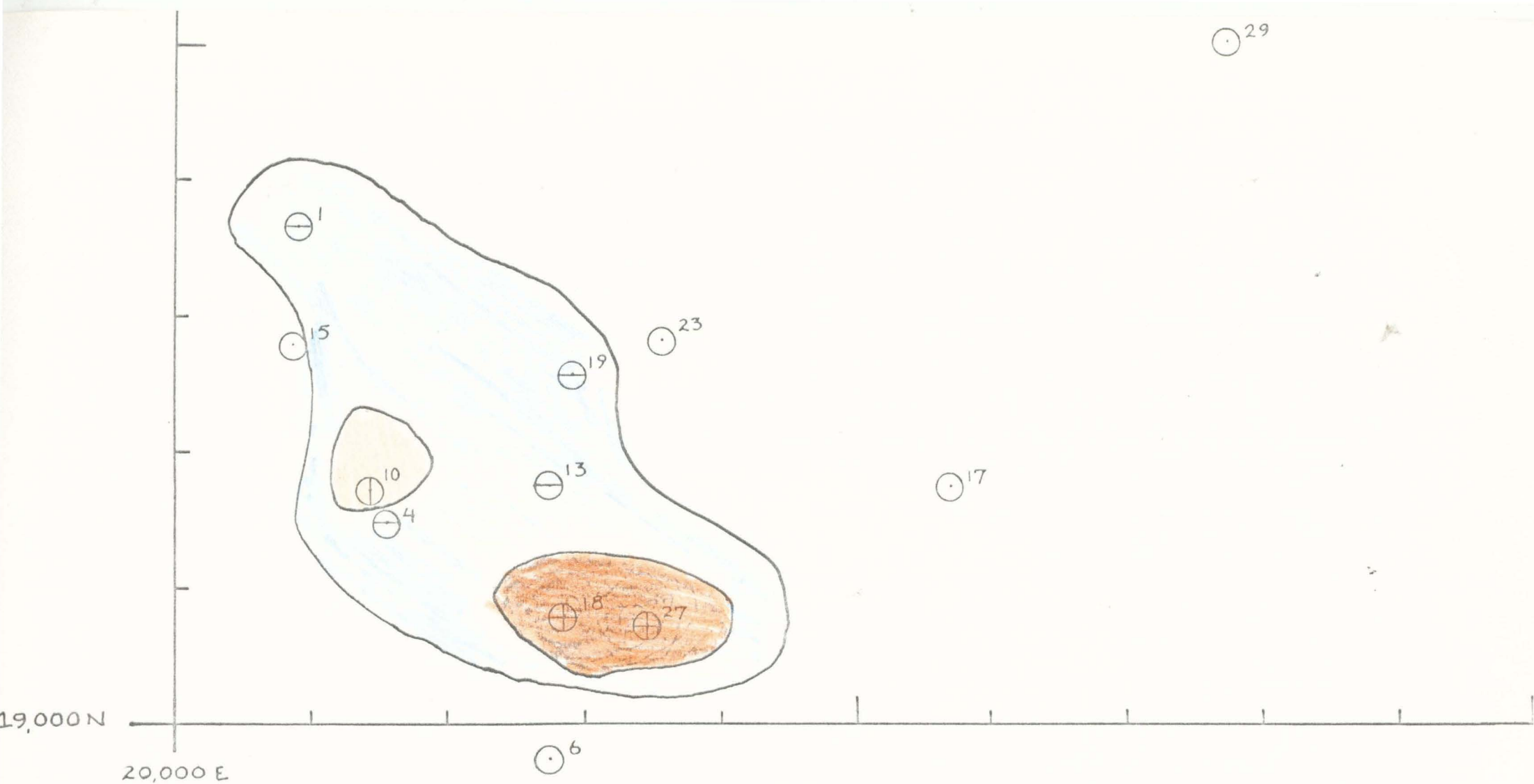
CUT-OFF	TONS	GRADE
1%	151,750	4.82%
3%	114,250	5.86%
5%	108,500	5.92%
10%	0	0

19,000 N

20,000 E

26

11



1975' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

215,250

2.72%

3%

39,000

6.19%

5%

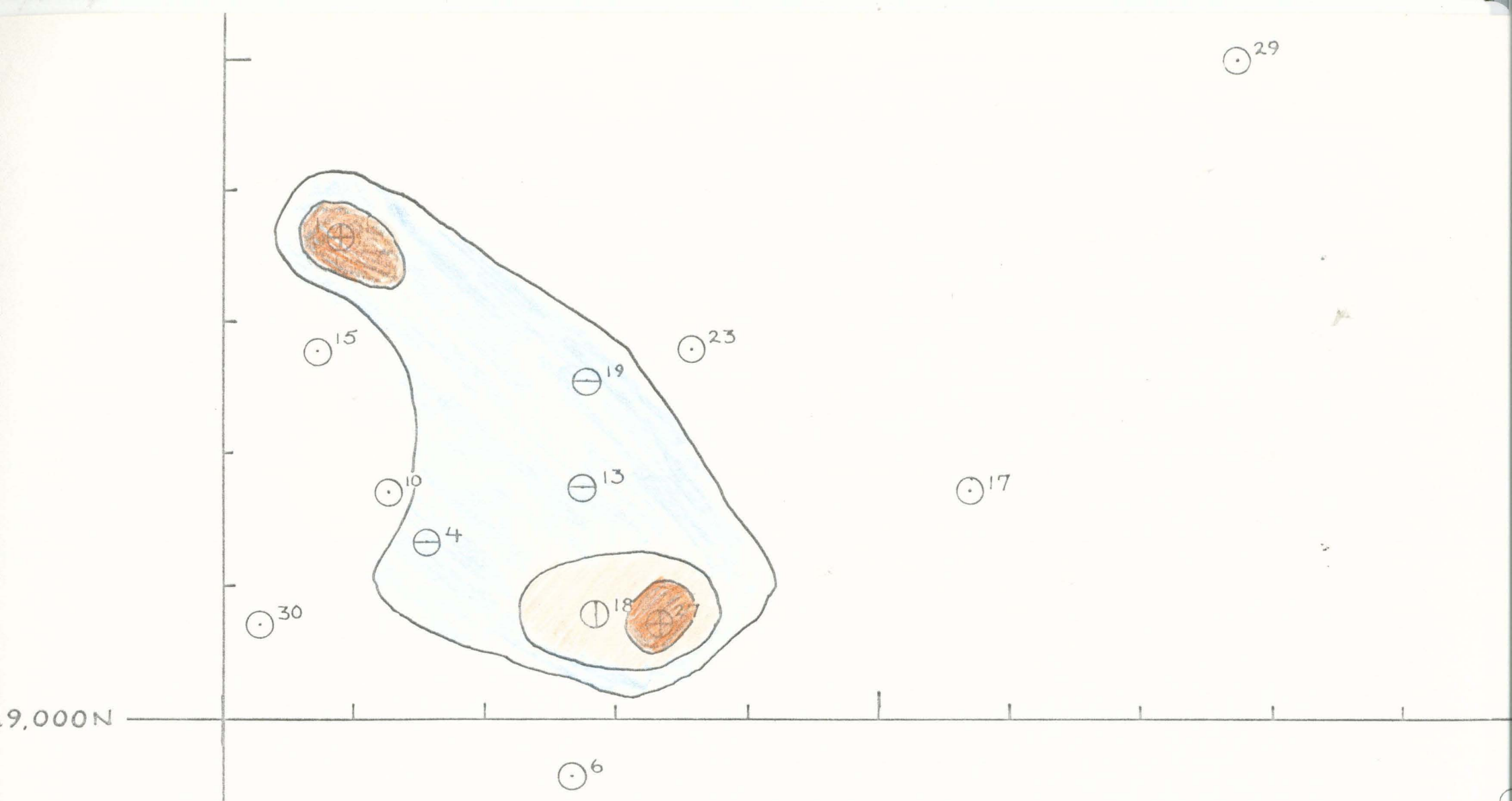
28,750

7.01%

10%

0

0



9,000 N

20,000 E

1950' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

189,250

2.80%

3%

26,750

4.75%

5%

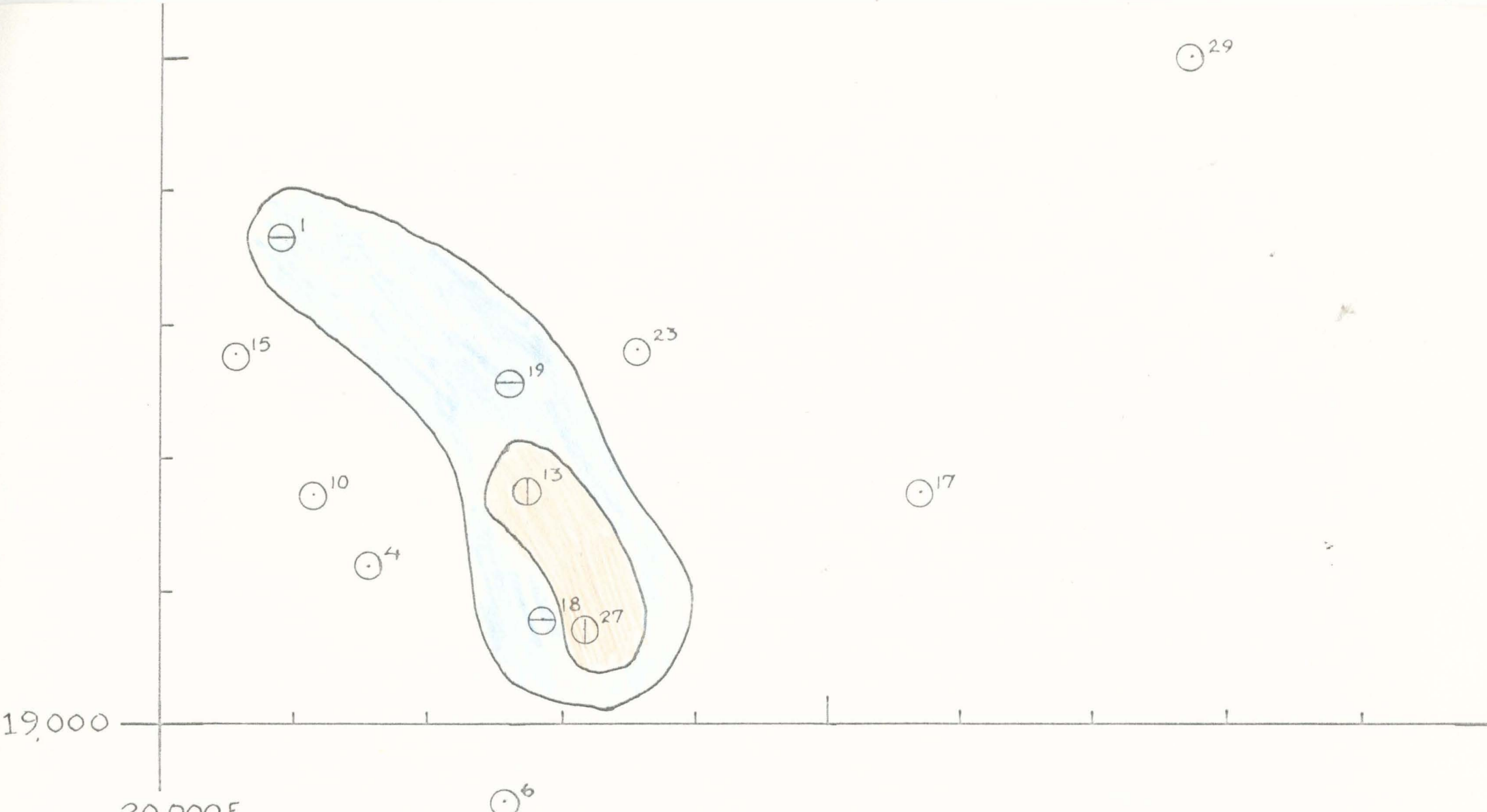
14,750

5.28%

10%

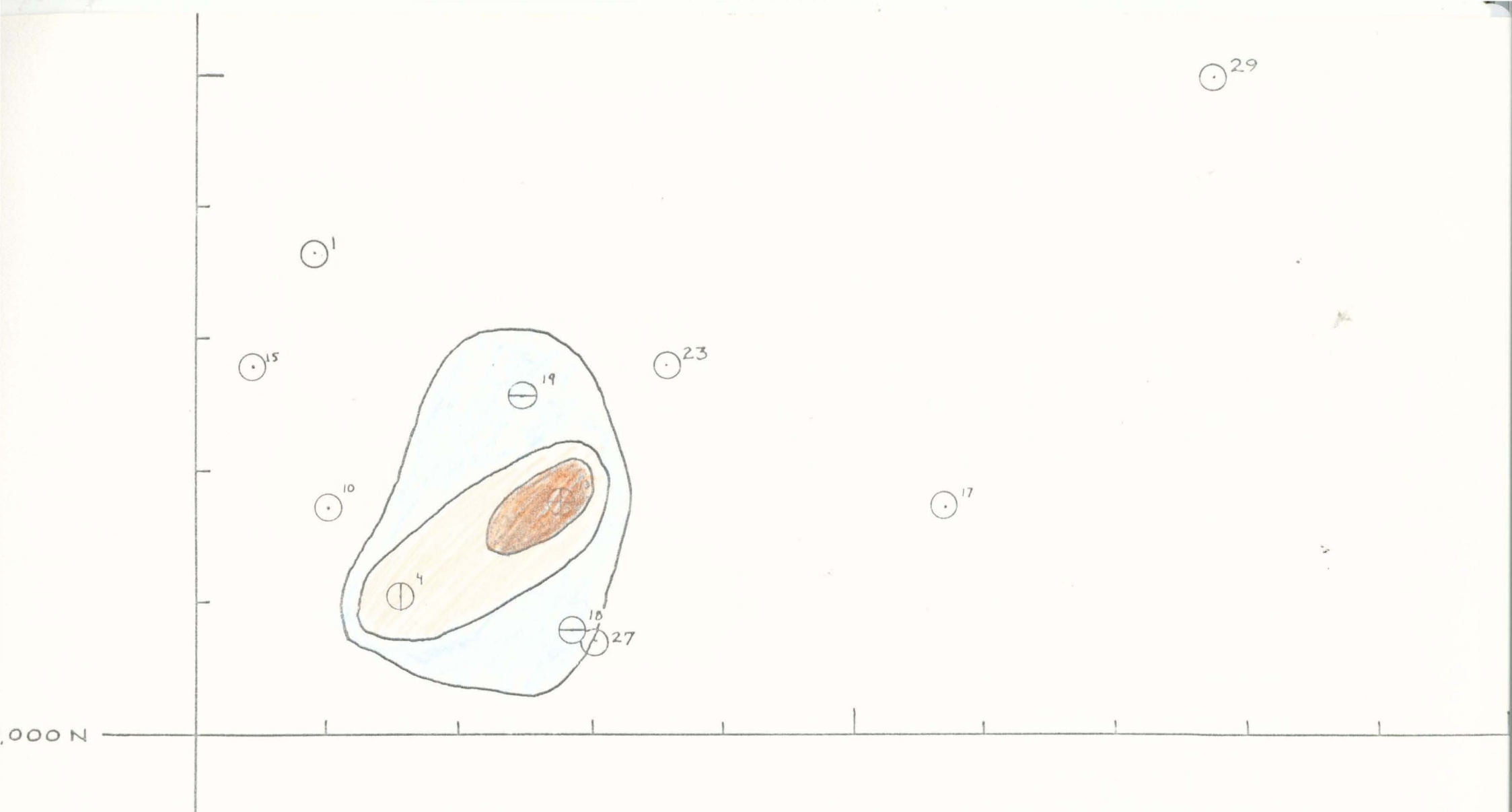
0

0



1925' LEVEL
1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	129,250	2.27%
3%	27,000	3.95%
5%	0	0
10%	0	0

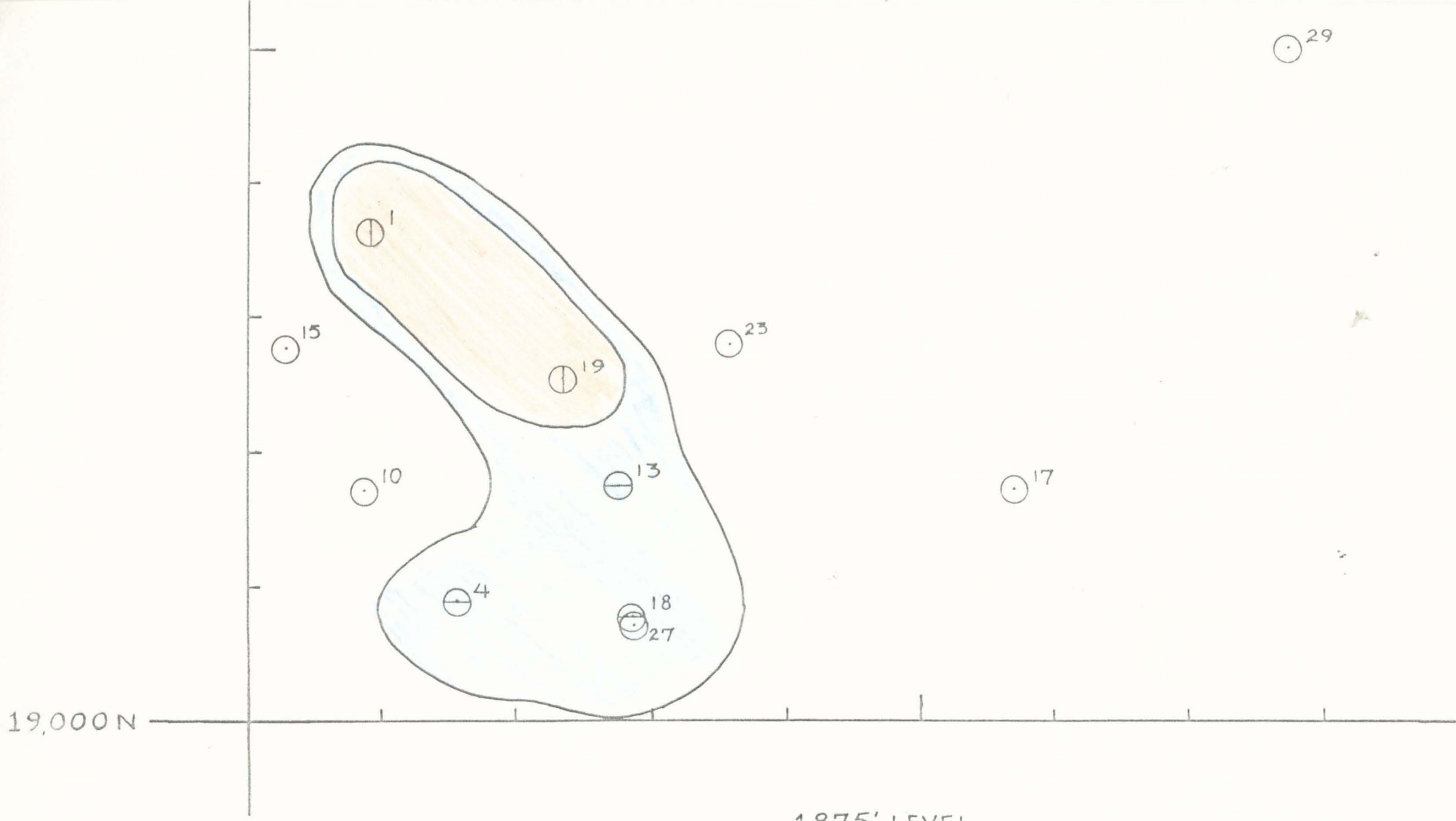


000 N

20,000 E

1900' LEVEL
1" = 100'

<u>CUT-OFF</u>	<u>TONS</u>	<u>GRADE</u>
1%	106,500	2.71%
3%	39,500	4.42%
5%	8,500	6.77%
10%	0	0



19,000 N

20,000 E

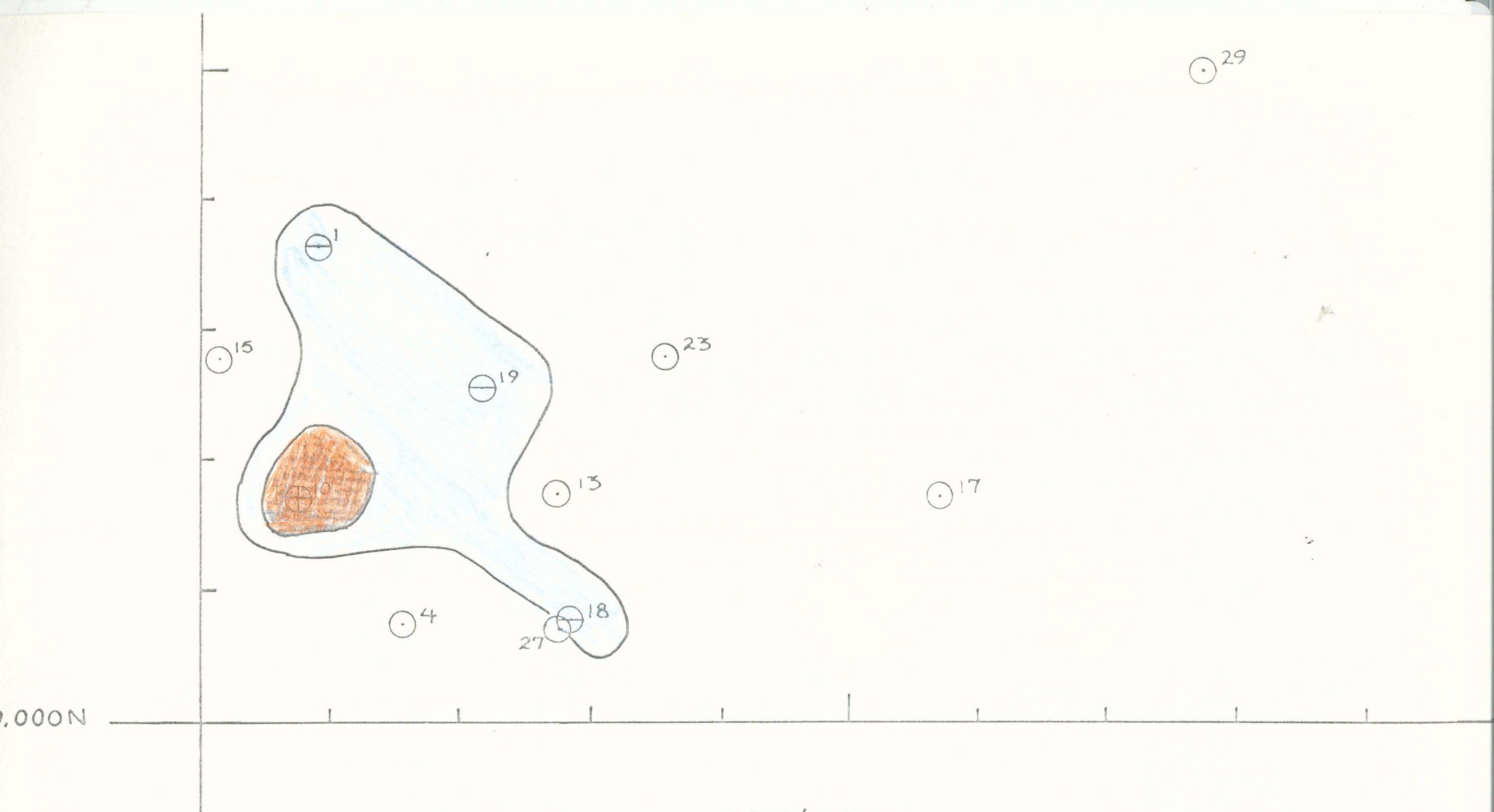
⊙ 6
CUT-OFF

1875' LEVEL
1" = 100'

1%
3%
5%
10%

TONS
190,250
59,000
0
0

GRADE
2.40%
4.41%
0
0



20,000E

1850' LEVEL

1" = 100'

⊖⁶

CUT-OFF

TONS

GRADE

1%

122,250

1.96%

3%

14,000

5.14%

5%

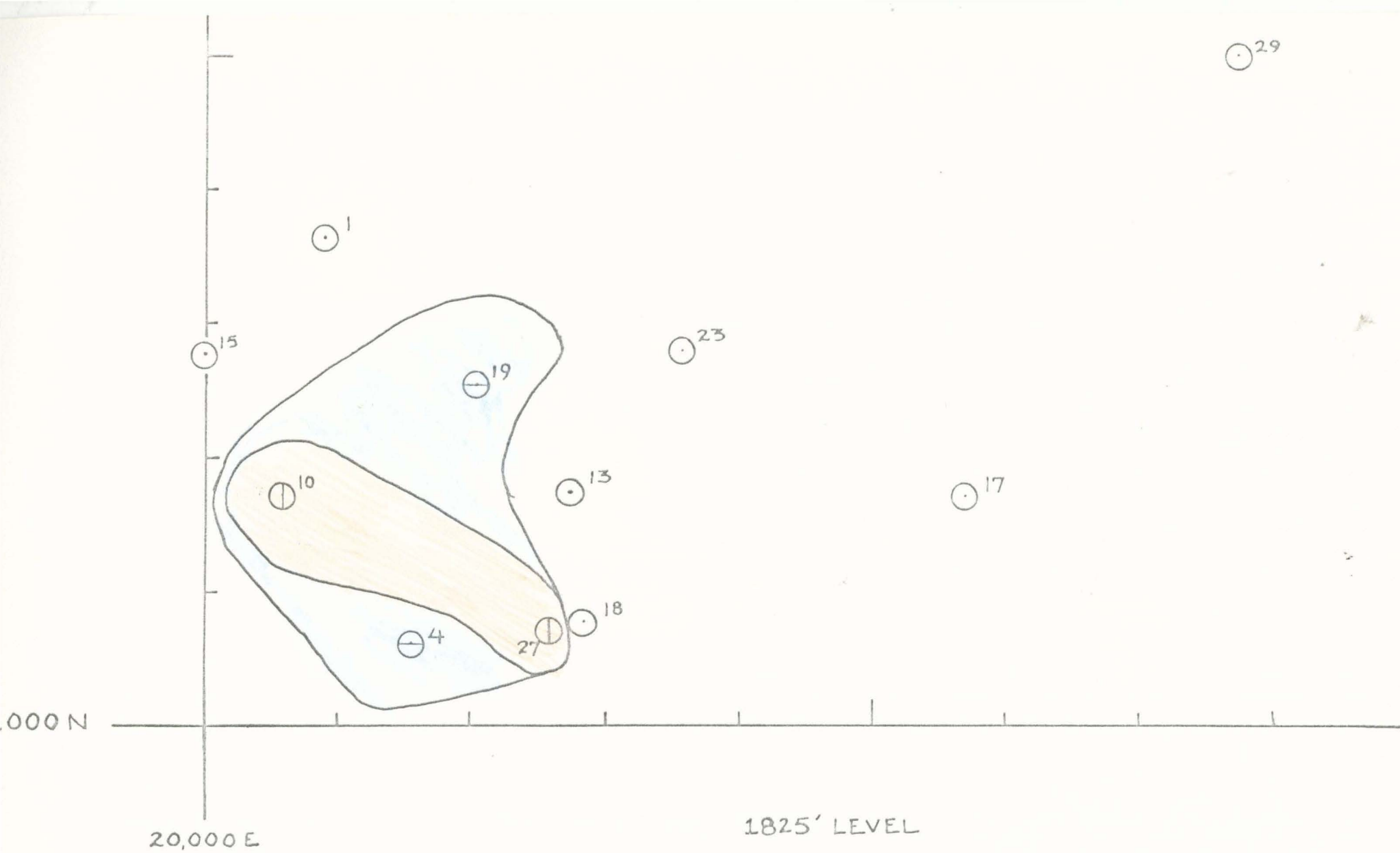
14,000

5.14%

10%

0

0



1825' LEVEL

1" = 100

CUT-OFF

TONS

GRADE

1%

139,000

2.40%

3%

50,750

3.51%

5%

0

0

10%

0

0

29

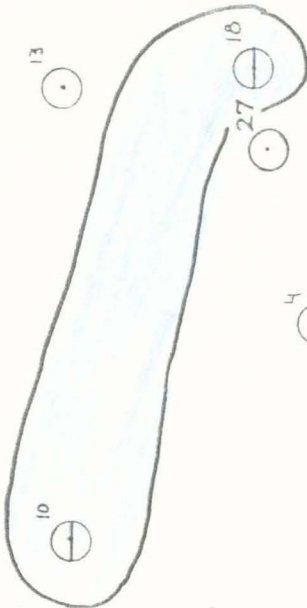
1

23

19

13

17



4

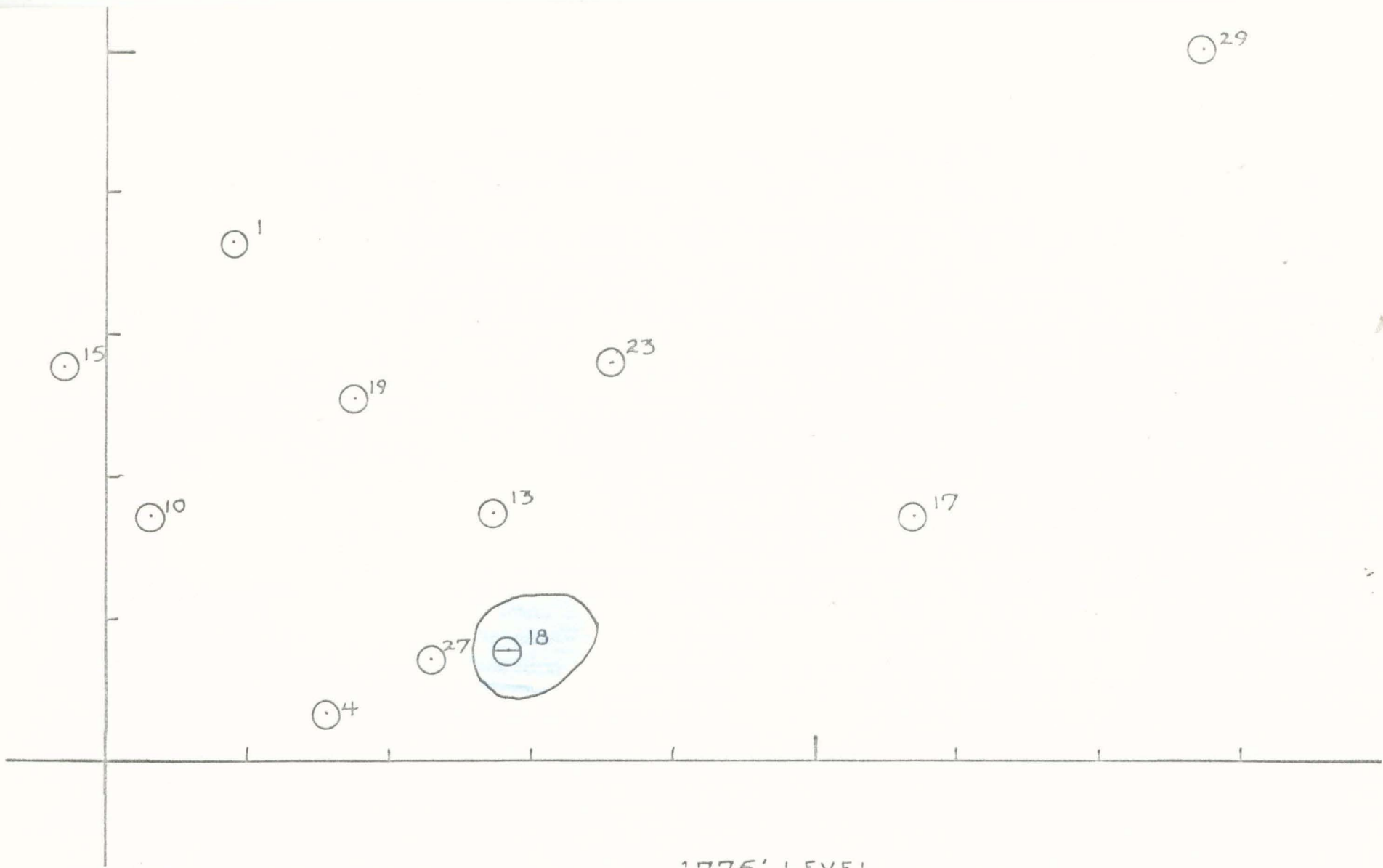
00N

1800' LEVEL
1" = 100'

20,000 E

6

CUT-OFF	TONS	GRADE
1%	48,750	1.55
3%	0	0
5%	0	0



20,000 E

1775' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

12,250

1.46

3%

0

0

5%

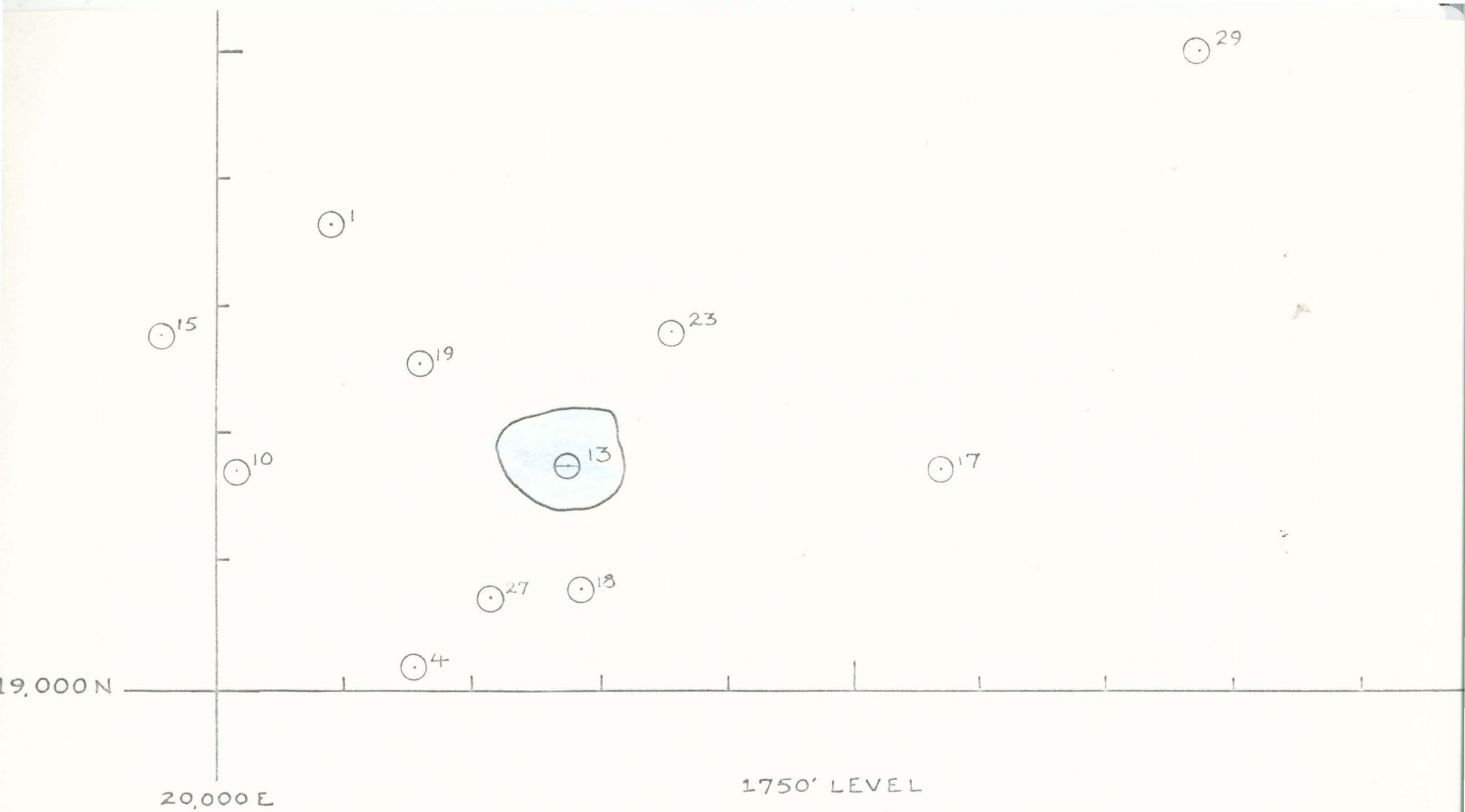
0

0

10%

0

0



1750' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

15,000

2.82%

3%

0

0

5%

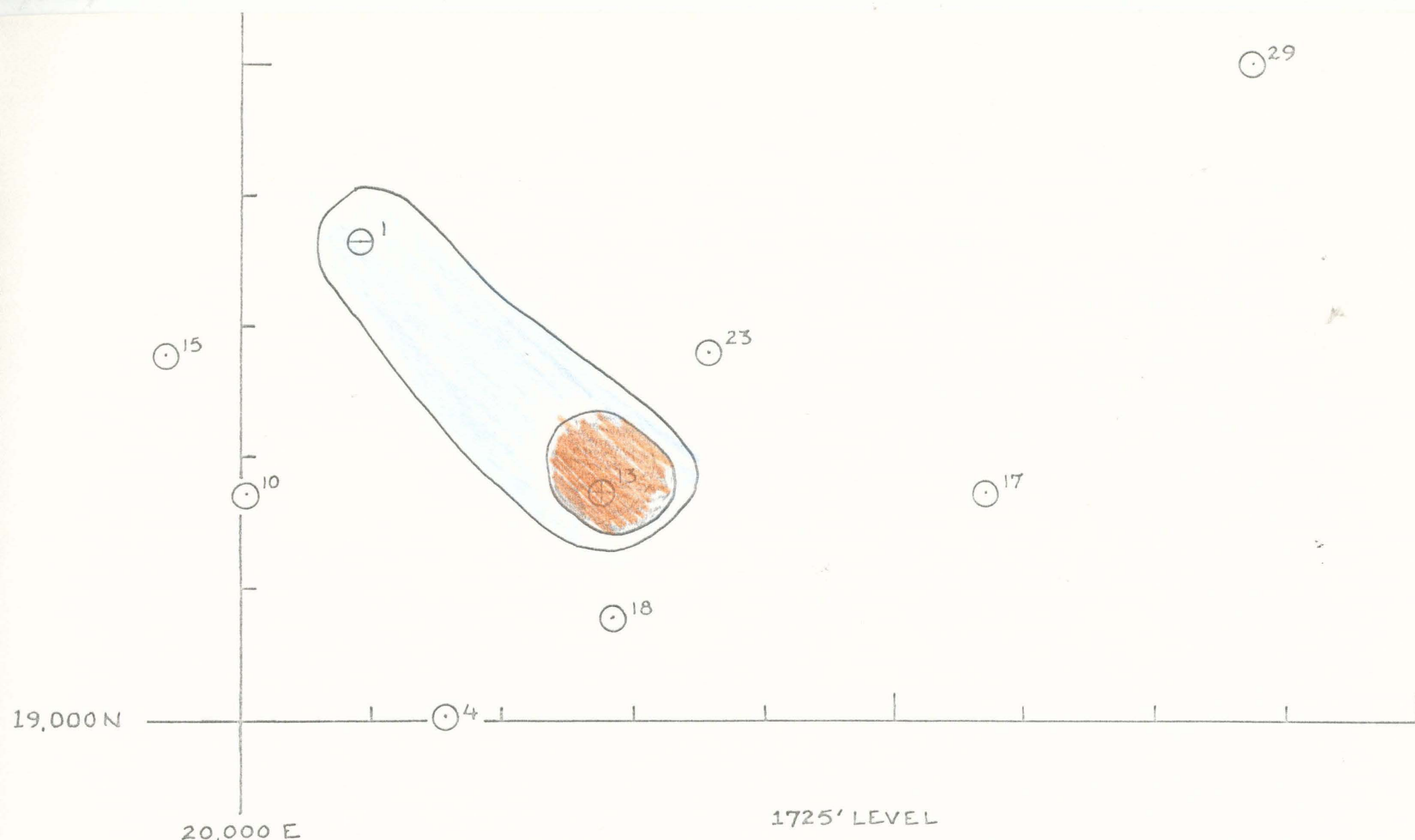
0

0

10%

0

0



1725' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

86,750

3.15%

3%

17,250

9.82%

5%

17,250

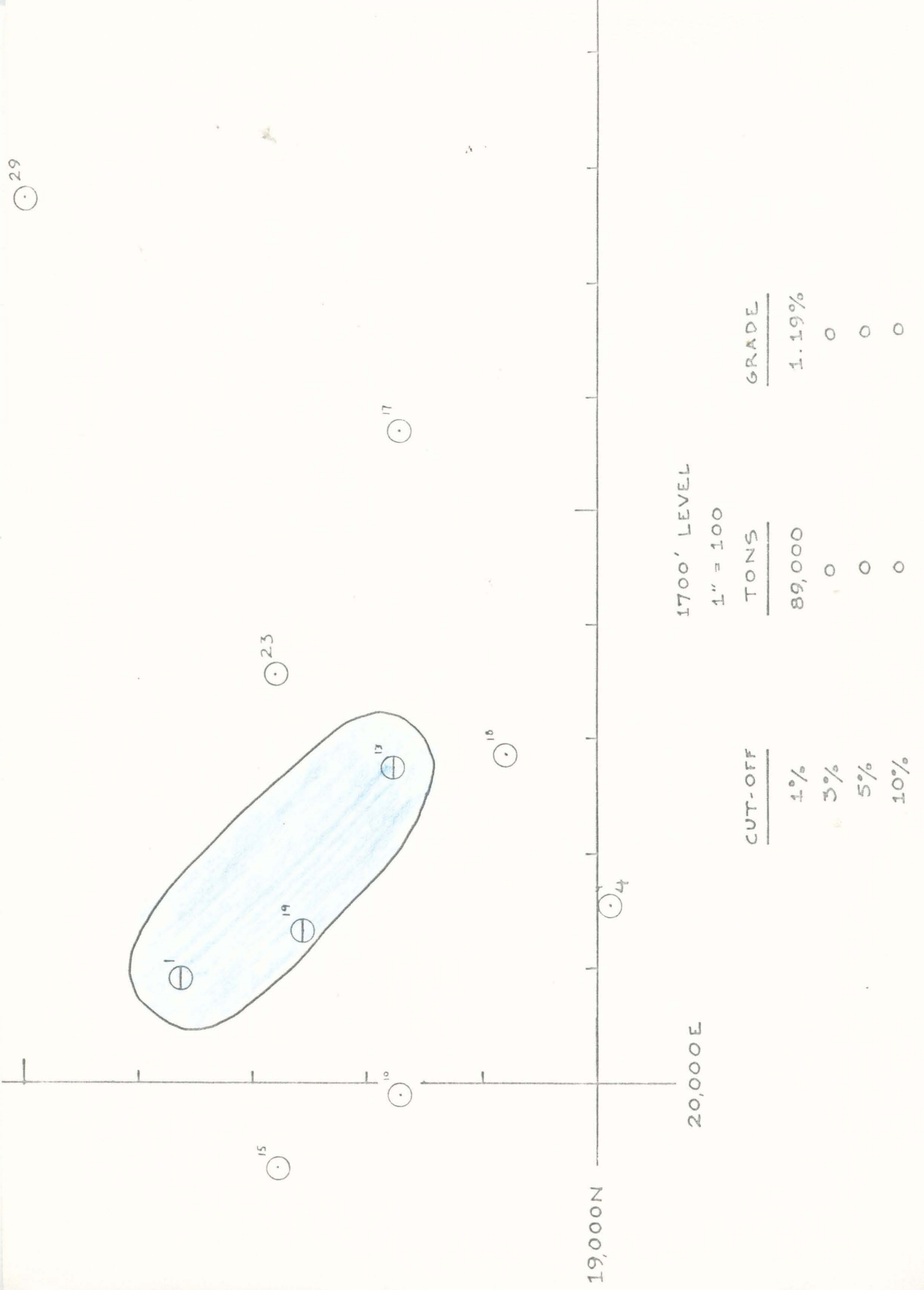
9.82%

10%

0

0

29



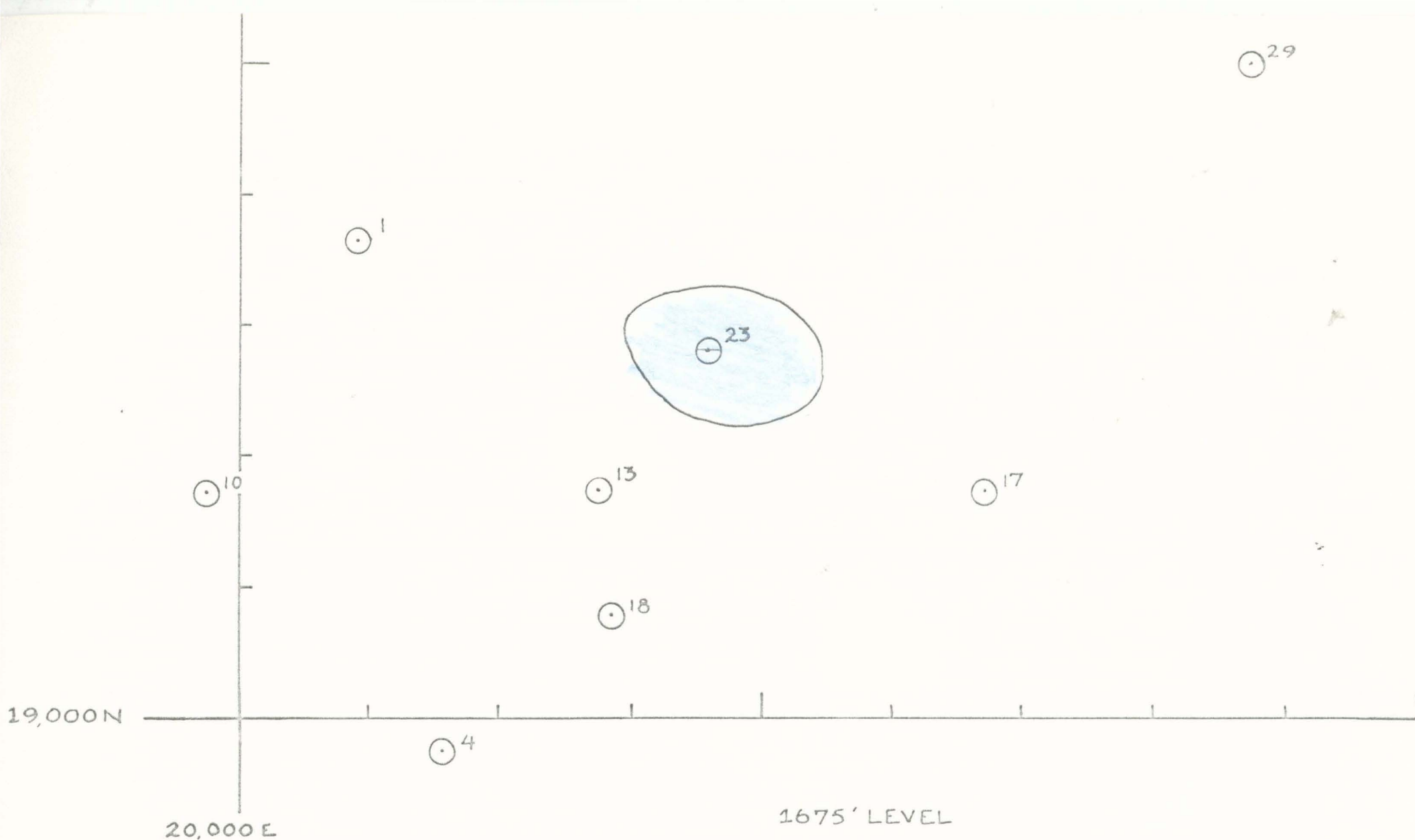
1700' LEVEL

1" = 100

CUT-OFF	TONS	GRADE
1%	89,000	1.19%
3%	0	0
5%	0	0
10%	0	0

19,000N

20,000E



CUT-OFF

TONS

GRADE

1%

30,000

2.47%

3%

0

0

5%

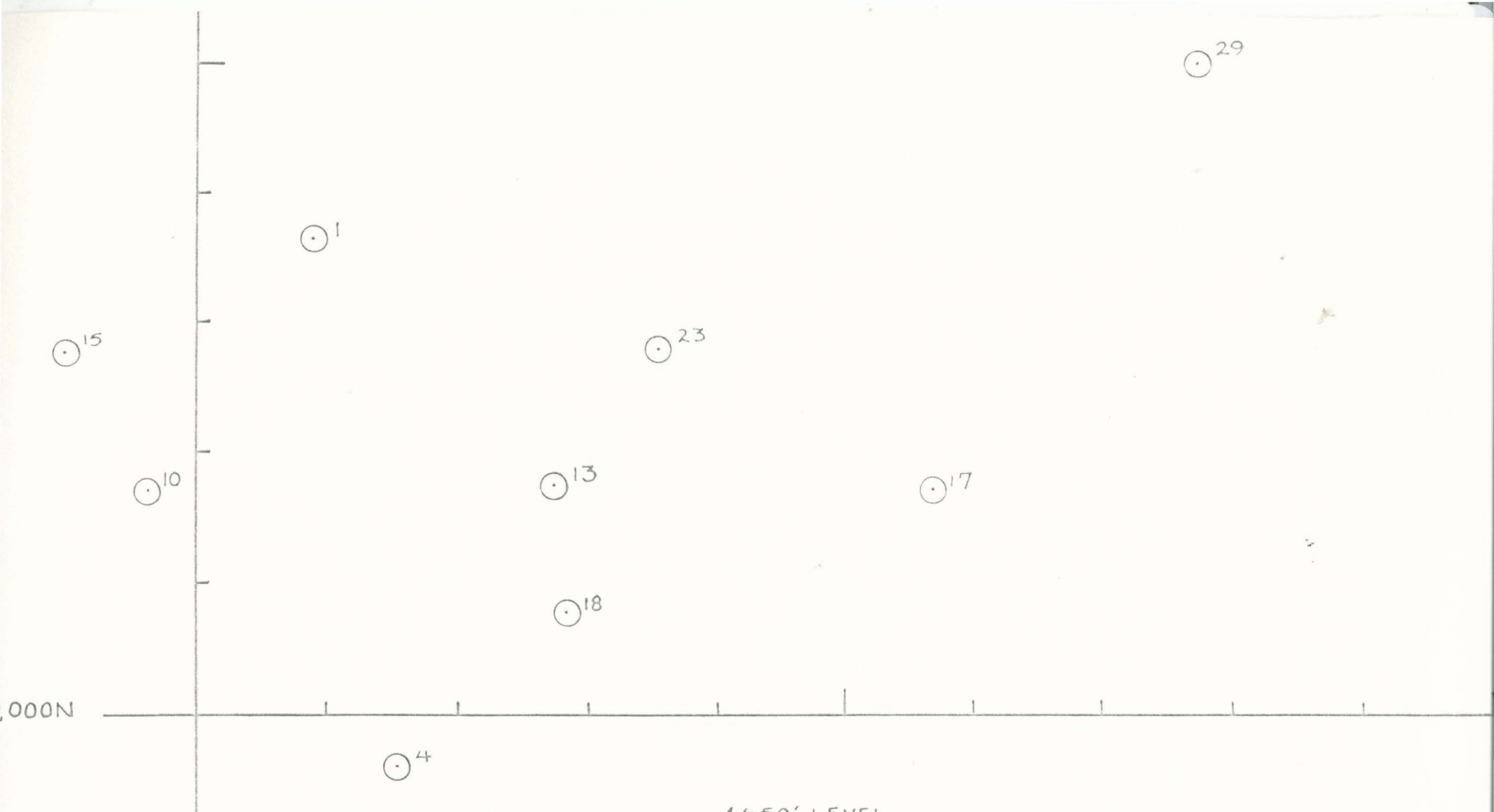
0

0

10%

0

0



1650' LEVEL

1" = 100'

CUT-OFF

TONS

GRADE

1%

o

o

3%

o

o

5%

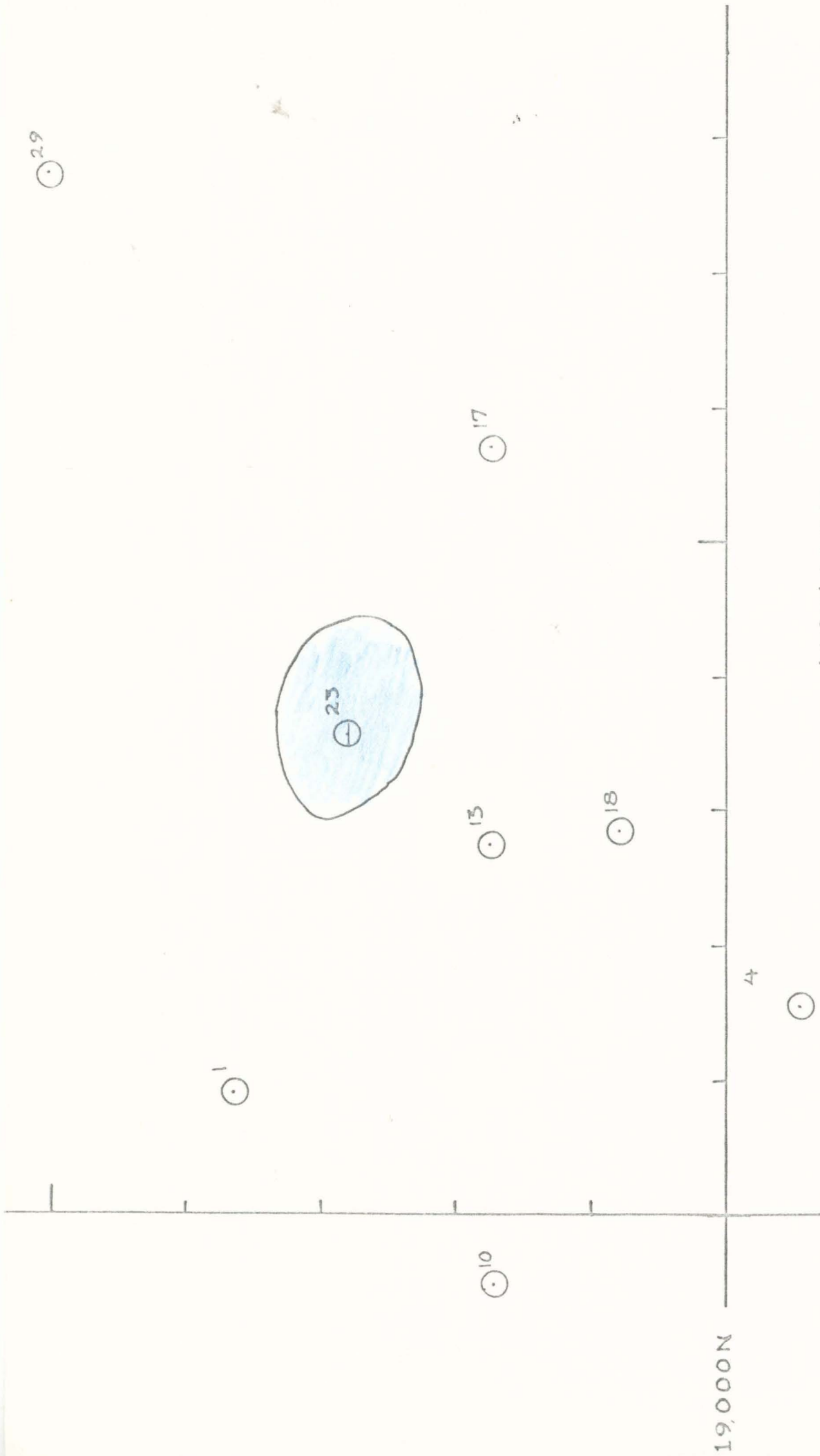
o

o

10%

o

o



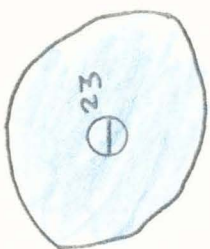
1625' LEVEL

1" = 100'

CUT-OFF	TONS	GRADE
1%	30,000	1.92%
3%	0	0
5%	0	0

29

1



12

17

18

4

1600' LEVEL
1" = 100'

20,000 E

GRADE

TONS

CUT-OFF

2.46%

24,250

1%

0

0

3%

0

0

5%

0

0

10%

29

1

13

16

17

23

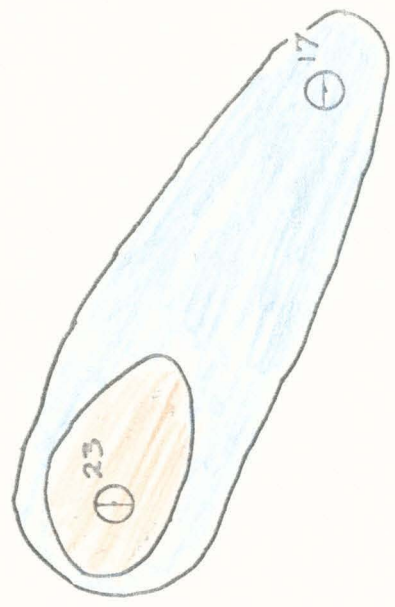
10

20,000E

4

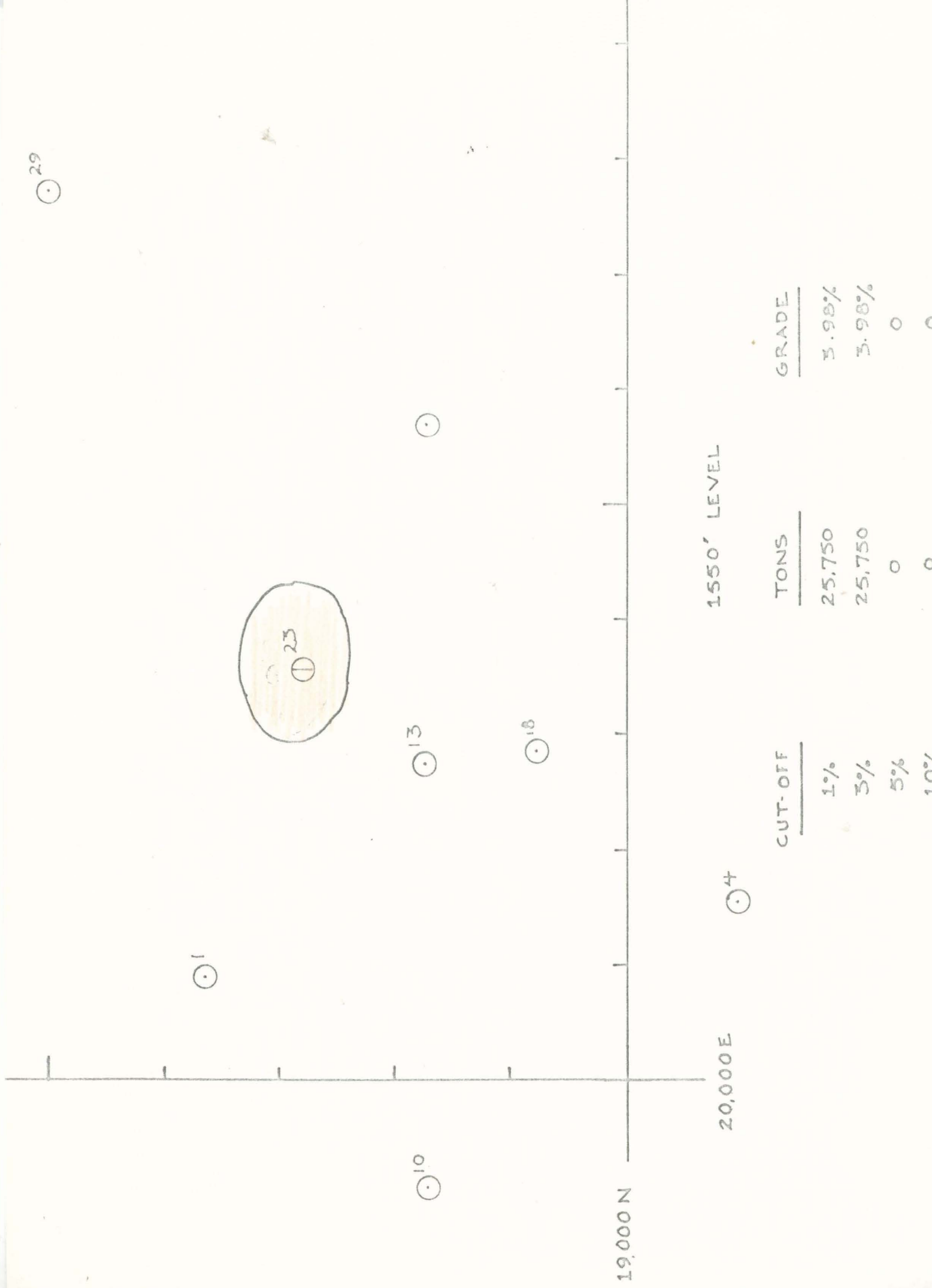
00N

19,000N



1575' LEVEL
1" = 100'

CUT-OFF	TONS	GRADE
1%	71,500	1.64%
3%	15,500	3.61%
5%	0	0
10%	0	0



29

1

10

13

13

18

25

20,000 E

1550' LEVEL

4

CUT-OFF

TONS

GRADE

1%

25,750

3.98%

3%

25,750

3.98%

5%

0

0

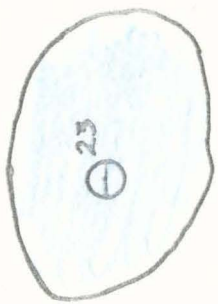
10%

0

0

29

1



23

10

13

17

18

19,000 N

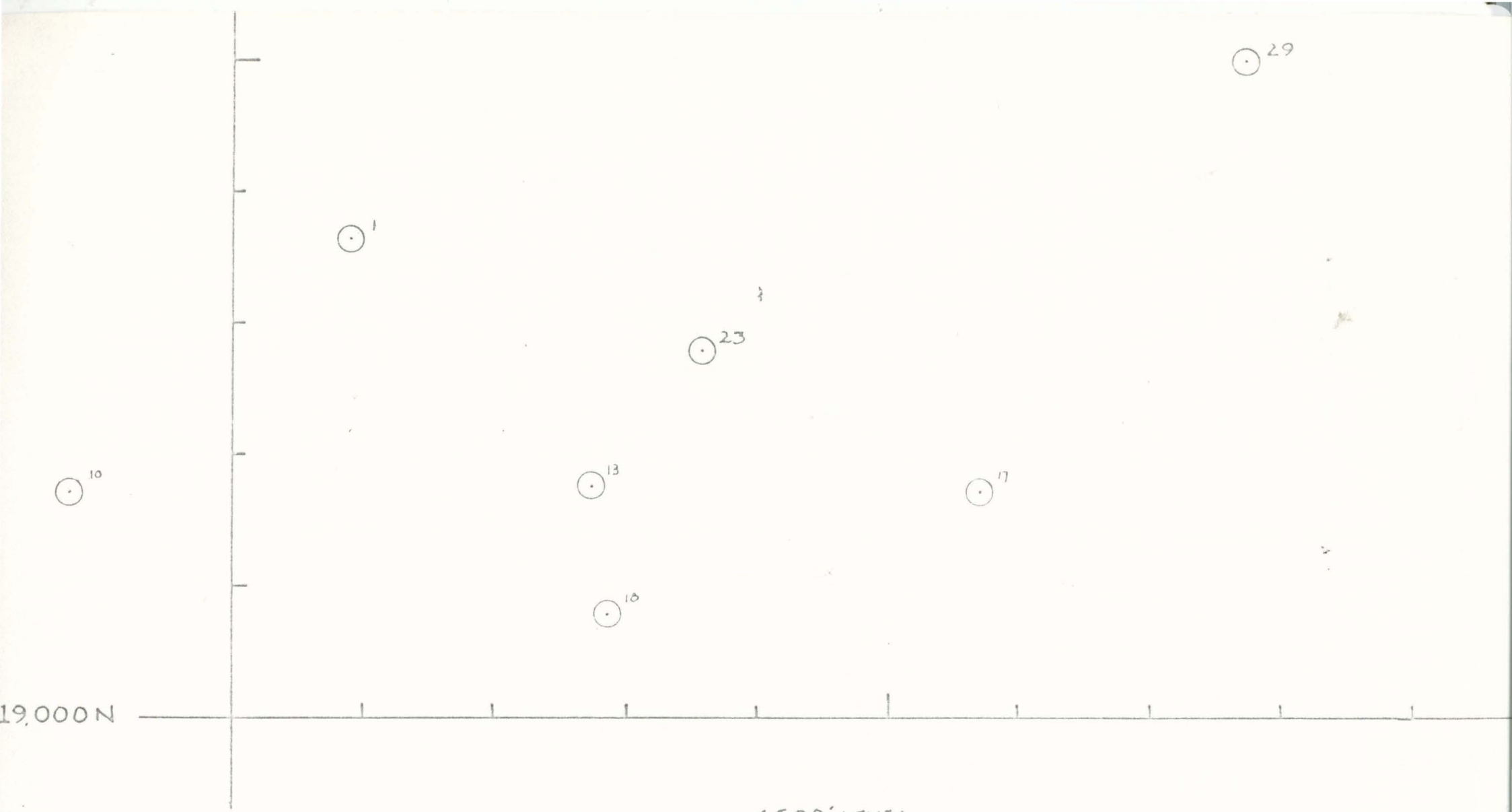
20,000 E

1525' LEVEL

1" = 100'

CUT-OFF	TONS	GRADE
1%	30,000	1.65%
3%	0	0
5%	0	0
10%	0	0

4



19,000 N

20,000 E

1500' LEVEL

1" = 100'

4

CUT-OFF

TONS

GRADE

1%

o

o

3%

o

o

5%

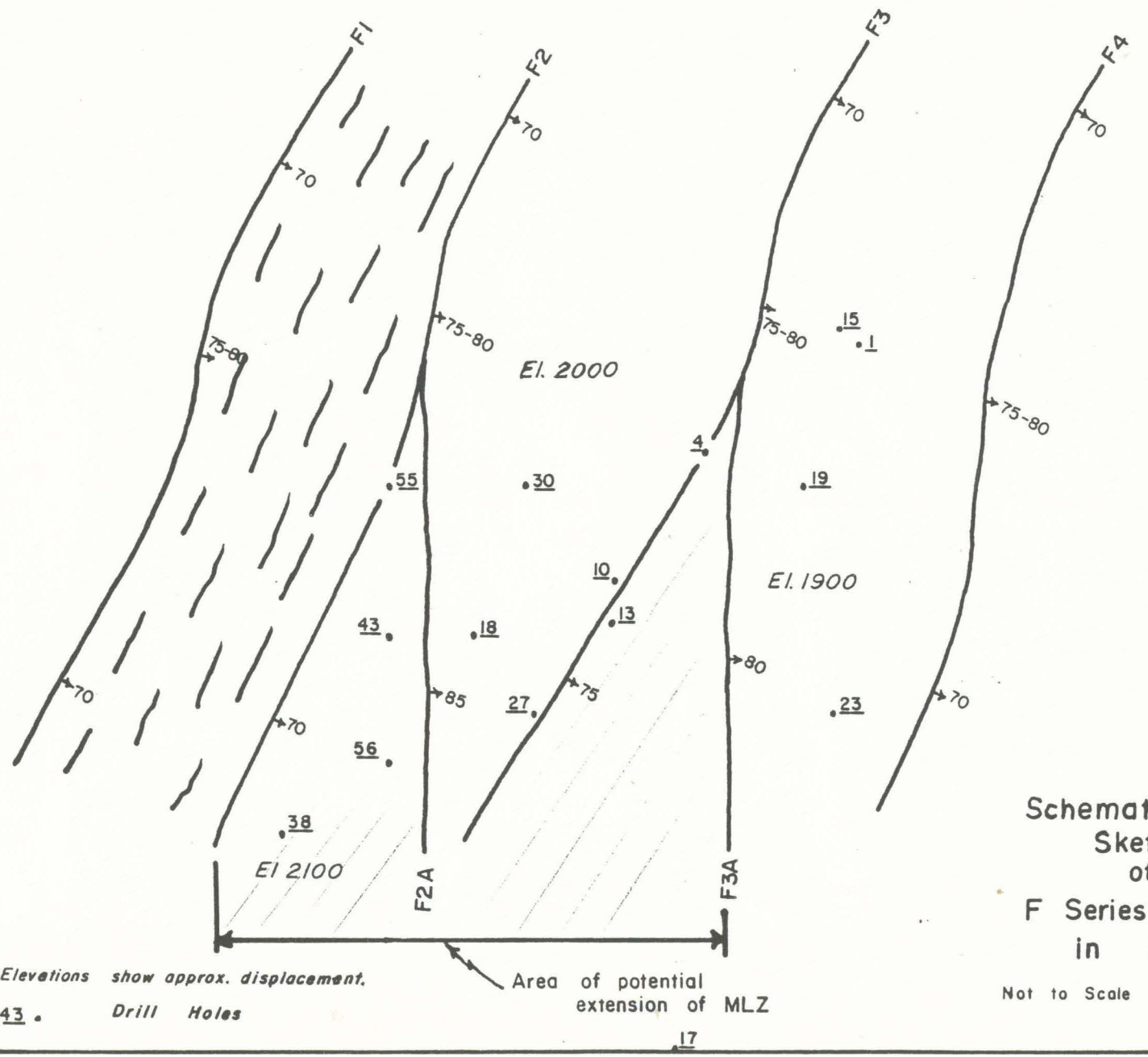
o

o

10%

o

o



Elevations show approx. displacement.

43 • Drill Holes

Area of potential extension of MLZ

Schematic
Sketch Plan
of
F Series Faults
in MLZ

Not to Scale T.A. Oct. 1984

FIGURE 1