

4425

ISO EXPLORATIONS LTD.  
YREKA (GREEN EAGLE MINES LTD. OPTION)  
REPORT ON EXPLORATION, 92L/5E  
JUNE - SEPTEMBER, 1972

By

R. V. Crossley

For

Barney, Superior, Edison, N.S. Fr., Comstock,  
etc.  
GEOPHYSICAL ENGINEERING & SURVEYS LTD.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP

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- #4 " " " " " , V.L.F. Electromagnetic Survey
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- #6 " " " " " , " " - Zinc
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Geochemical Survey, Self-Potential Survey

ISO EXPLORATIONS LTD.

YREKA (GREEN EAGLE MINES LTD. OPTION)

REPORT ON EXPLORATION, JUNE - SEPTEMBER, 1972

By R. V. Crossley

For GEOPHYSICAL ENGINEERING AND SURVEYS LTD.

Systematic geophysical, geological and geochemical surveys started on June 10, 1972, when a crew consisting of the writer, B. Hainsworth, and M. Siscoe arrived on the property to join the Iso Explorations Ltd. prospector B. Lovang and helper E. Raven. Prospects re-examined or newly discovered by Lovang and Raven led to the selection of nine separate areas of the property for coverage by these surveys: (see Map #1). Instruments employed were the Scintrex MF-2 magnetometer, Crone VLF-EM unit, and McPhar self-potential unit. A total of 2,000 feet of diamond drilling was performed in two of these areas by Connors Drilling Ltd. between August 20 and September 23, 1972. Three of the areas were geologically mapped and soil sampled by J. Poloni, P. Eng. and crew on contract to Iso Explorations Ltd.

A description follows of the results obtained in each area, together with a final paragraph suggesting where further work may be justified on three of the surveyed areas.

Comstock Edison Grid

2,3,8 showings (Maps No. 2,3,4,36,37,38,39,40,41)

The first area of investigation was in the vicinity of the No. 2, 3, 8 showings that were found or rediscovered by Lovang in late 1971 and early 1972. Hand trenching and sampling of the showings variously in 1971 and 1972 confirmed that they contained good values in copper and silver; see geological sketch maps 36, 37, & 38.

A self-potential survey made of this area with readings spaced at 10 ft. on flagged lines 50 feet apart indicated a strong anomaly centered on the No. 8 showing and having a strike length of approximately 250 feet. A small weak anomaly was indicated at the No. 3 showing.

VLF-EM over the same area indicated a strong anomaly centred just off the No. 8 showing and having a strike length of approximately 250 feet. Nothing of interest was detected at the No. 3 showing.

Magnetic surveys indicated an area of strong magnetic relief centred between the No. 2 and No. 8 showings and having a strike length of approximately 200 feet. Nothing of interest was detected at the No. 3 showing.

The coincidence of self-potential, magnetic and VLF-EM anomalies enclosing the Nos. 2 & 8 showings in conjunction with good copper assays indicated that drilling of these showings was desirable. Four holes totaling 1,844 feet were drilled here (see attached drill logs).

Y-1 was drilled as shown on Map #39 to intersect the mineralized zones below the Nos. 8 & 3 showings where good assays and geophysics were obtained. The best intersection obtained is on the down-dip extension of the No. 8 showing and is 1.92% Cu across 19.5 feet (from 259.1 to 278.6 feet). Other than a few sporadic assays nothing of significance was intersected to correlate with the No. 3 showing.

Y-2 was drilled to go through the peak of the VLF-EM anomaly (see Map#40). The extension of the mineralized zone found in Y-1 was intersected along strike to the north but consisted almost entirely of abundant to massive pyrrhotite with very low copper assays.

Y-3 was drilled to go under the No. 2 trench (see Map#40). Its results were similar to Y-2 in that it encountered abundant to massive pyrrhotite with very low copper assays, representing the southern extension of the sulphides encountered in Y-1.

Y-6 was drilled to intersect the down-dip extension of the mineralized zone in Y-1. Due to the presence of a very large dike no sulphides of interest were encountered.

1,4,5,7 showings (Maps No. 5,6,7,8A, 8B):

Soils in the vicinity of the No. 7 showing were found to have anomalous copper values by Royall in 1971; prospecting by Lovang had found the No. 7 showing and also the No.1,4,&5 showings further north. Consequently this area was geophysically surveyed, using the Comstock and Edison base lines.

The self-potential survey failed to reveal any anomalies.

The VLF-EM indicated one strong anomaly on lines 2+50 N to 4+00 N, east of the Edison base line, but this anomaly is attributed to the adjacent steep topographic relief and is therefore discounted as a possible target. A weak EM anomaly detected on lines 1S to 8S, east of the Comstock base line, is probably due to non-sulphide conductivity in the bedded rocks since it has no self-potential or magnetic correlation.

The magnetic survey indicated considerable magnetic relief throughout the area. Although several magnetic highs appear related to rocks containing pyrrhotite, they are of little interest because they lack other geophysical expression and accompanying geochemistry.

The geochemical survey of this area indicated anomalous areas of which several are attributed to weak exposed copper mineralization. They show no coincidence with the geophysical responses.

Hand trenching was done at the No. 7 showing in an attempt to explain its presence and the total lack of geophysics over it. It was found that the copper-bearing outcrops are oblong blocks of rock ranging from four to six feet in diameter containing abundant sulphides, predominantly chalcopyrite and pyrrhotite; these are contained in a large zone of fault gouge wider than 15 feet whose west wall was not exposed. The eastern footwall gives the impression that the fault is in the plain of the bedding and has the regional northwesterly strike and westerly dip. The mineralized blocks appear to be either small mineralized pods in the fault zone or to have been moved by the fault from a mineralized source now eroded away or at a depth beyond the range of geophysical detection.

North Arm Grid (Maps No. 9,10,11,12,41)

Prospecting along the North Arm Creek revealed float and outcrop containing copper mineralization. A subsequent grid with covered the area revealed coincident VLF-EM and self-potential anomalies with weak magnetic correlation; a drill hole was recommended to investigate this anomaly.

Hole Y-4 was lost in bad ground at 46 feet in an attempt to intersect the anomaly; Y-5 was moved approximately 100 feet to the south and drilled to 116 feet. This second hole encountered a zone of black slates from 42.6 feet to 67.8 containing up to 25% pyrite, considered to be causing the anomaly (see Map 41). No copper mineralization was encountered in the hole.

High copper assays in the soils were attributed to minor copper mineralization in outcrops further north up the creek, which correlated with weakly anomalous geophysical responses.

Upper Blue Grouse Grid (Maps No. 13,14,15)

Work by Royall in 1971 indicated an area of anomalous copper geochemical values on the eastern end of the Upper Blue Grouse grid. To follow this up the area was covered with self-potential, VLF-EM and magnetic surveys. Nothing to warrant further work was indicated.

Anvil Grid (Map No. 16)

Prospecting along Manwhieclas Creek revealed a very old test pit containing sphalerite, pyrrhotite and a trace of chalcopyrite. A small grid was established and the area covered with VLF-EM, magnetic, self-potential and geochemical surveys. Nothing to warrant further work was encountered.

Third Creek Grid (Maps No. 17,18,19,20)

Prospecting in the vicinity of Third Creek revealed some pyrrhotite and chalcopyrite mineralization; a grid was established and VLF-EM, magnetic, self-potential and geochemical survey performed. Results were negative except for a large self-potential anomaly detected on lines 5N, 6N, and 7N east of base line B; geological prospecting revealed its source to be a black, probably graphitic, limestone which therefore required no further investigation.

Lower Blue Grouse Grid (Maps No. 21,22,23,24,25)

The geochemistry outlined a large area of anomalous copper values on the western half of the grid. Its main trend is coincident with a moderate self-potential anomaly and weak VLF-EM and magnetic anomalies. The geochemical and geophysical anomalies appear to remain open along strike to the north and south.



Clyde Grid (Maps No. 26,27,28,29,30)

This grid was designed to cover a widely mineralized area in which much early prospecting and minor production had taken place in the southern part of the Yreka skarn belt.

Geochemistry outlined a large anomalous zone in the centre of the grid area which can be attributed partly to contamination from earlier workings and partly to scattered mineralized occurrences.

The VLF-EM, self-potential and magnetic surveys failed to reveal any coincident anomalies of interest.

Superior Grid (Maps No. 31,32,33,34,35)

This grid was established northward on strike from the mined-out Yreka ore body to cover an area where prospecting had previously found several occurrences of mineralized skarn similar to that of the mine area.

Geochemistry outlined a wide belt of anomalous copper values extending through the centre of the grid and coinciding with areas shown by geological mapping to contain considerable copper mineralization.

Self-potential outlined one strong anomaly and two moderate anomalies. The strong anomaly on lines 8N to 10N was attributed to a black, probably graphitic, limestone and is thus a continuation of a similar anomaly in this bed further north along strike on the Third Creek grid. The moderate self-potential anomaly at 2,000 feet surface elevation on line 2 N, east of the base line, is coincident with moderate VLF-EM and magnetic anomalies and with a mineralized occurrence, but since it also coincides closely with one of the 1900-level stopes in the Yreka orebody it is unlikely to reflect much ore. Another moderate self-potential anomaly located on lines 7N & 8N, east of the base line, is coincident with a strong geochemical anomaly and a moderate VLF-EM anomaly. This anomaly is referred to in Conclusions and Recommendations, below.

## Reconnaissance Geochemistry (Map No. 1)

Additional geochemical soil and silt samples taken to complete the 1971 coverage beyond the grid areas failed to indicate anything of real interest.

### Molybdenum Distribution

Several small occurrences of molybdenite are known on the property. Geochemical silt sampling had suggested that higher molybdenum values are associated with higher zinc values, but relationships in the outcrops are that molybdenum occurs with both copper and zinc showings. Although molybdenite occurs in a few showings at the northern end of the Comstock Edison grid and on the North Arm grid, altogether its distribution appears very sporadic and the possibility of finding significant concentrations is considered to be very limited.

### Conclusions and Recommendations

Three of the nine areas examined retain apparently some exploration potential. These are the Comstock Edison, Lower Blue Grouse, and Superior grids.

On the Comstock Edison grid in the vicinity of the Nos. 2 and 8 showings sulphides may occur between the mineralized intersection in hole Y-1 and the dike in hole Y-6 (see Map 39) and therefore a further hole should be considered.

On the Lower Blue Grouse grid the self-potential, VLF-EM and geochemical anomalies appear to extend off the grid in both directions. The mineralization found to date in the grid area is of insufficient grade or size to be economically interesting, but since the possibility exists of finding better grade along strike an extension of the grid should be considered.

The Superior grid, east of the baseline on lines 5N to 8N, contains a moderate, coincident self-potential and VLF-EM anomaly with accompanying strong soil geochemistry. Although lacking a magnetic correlation it should be considered as a possible drill target.



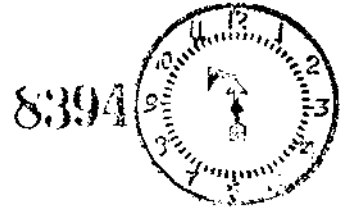
*for*

R. V. Crossley,  
Geologist,  
October, 1972.

RVC/vlh

AUG 1 '73 AM

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Notes on Presentation of Geophysical Results

- (a) Self Potential: For map presentation and interpretation, readings measured in millivolts (either negative and more anomalous, or positive and less anomalous) were transposed to positive, contoured numbers by reversing the sign and adding a constant (900) to each reading. The largest numbers on the S.P. maps therefore represent the more highly anomalous localities.
- (b) VLF-EM: The results of these surveys employing the signal from Seattle, Wash., are presented as filtered positive tilt angles after the method of D.C. Fraser ("Contouring of VLF-EM Data", Geophysics, XXXIV, pp. 958-967, December, 1969 and "VLF-EM Data Processing", CIM Bulletin, January, 1971, pp. 39-41).

Note on Method of Soil Sample Collection and Analysis

Samples were collected from the B-1 horizon using either a grubhoe or, where necessary, an auger. They were examined, noted, placed in numbered kraft envelopes, partly air dried and sent to Bondar-Clegg and Co. Ltd. laboratory at 1500 Pemberton Avenue, North Vancouver.

At the laboratory, the samples were treated by semi-quantitative analysis as follows:

- (1) Dried in infra-red driers.
- (2) Sieved to -80 mesh.
- (3) Weighed out 0.5 gram.
- (4) Digested in LeFort aqua regia for three hours.
- (5) Bulked to 20% acid concentration and homogenized.
- (6) Allowed one hour settling time.
- (7) Analyzed by atomic absorption in constant comparison with both synthetic and matrix standards.
- (8) Permanently recorded on chart paper.

Results are recorded on the maps in parts per million (ppm) of the metal analyzed.

INITIAL	
C.F.C.	<input checked="" type="checkbox"/>
D.G.C.	
D.S.C.	
ACCTS.	
C.A.B.	
C.I.	
C.A.	
R. T.	
C.P.E.	
FILING CLERK	

ROLAND V. CROSSLEY of 2189 Algonquin Avenue, North Bay, Ontario

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1. Graduated from Carleton University with B.Sc. in Geology in 1969 and has practiced as a geologist continuously since.

From 1968 or earlier he has been employed by Geophysical Engineering and Surveys Limited (now Geophysical Engineering Limited).

Camstack & Edison grids

SP - maps 2,7; mag - maps 3,8

VLF EM - maps 4,9; soil - maps 5,6

geol. - maps 10-12

DDH sections - maps 13,14

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Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 4425	MAP

North Arm grid

SP - map 15; mag - map 16

VLF EM - map 17; soil - map 18

DDH section - map 19

Upper Blue Grouse

Trenching  
detail geol. #3165

SP - map 20; mag - map 21

VLF EM - map 22

Lower Blue Grouse

Trenching

topo - map 23; geol. - map 24, 25

soil - maps 26, 27; SP - map 28

mag - map 29; VLF-EM - map 30

Anvil grid

geophysical-geochemical - map 51

Third Creek grid

SP - map 47; mag - map 48

VLF EM - map 49; soil - map 50

Clyde grid

topo - map 31; geol. - maps 32, 33

soil - maps 34, 35; SP - map 36

mag - map 37; VLF EM - map 38

Superior grid

topo - map 39; geol. - maps 40, 41

soil - maps 42, 43; SP - map 44

mag - map 45; VLF EM - map 46

Tuscarora grid

grid, mag, geol, soil, topo  
trenching - #3165

minor silt - map 1

General

aer-airmag #3164  
silt #3165

EXPLORATION - YREKA (Green Eagle Mines)      YREKA - EXPENDITURES IN 1972

Diamond drilling	-	24,514.66
Trenching	-	<u>402.81</u>
Line cutting	-	337.50
Geochemical survey	-	251.71
Magnetometer survey	-	629.75
S.P. survey	-	1,356.97
E.M. survey	-	732.86
Geology	280.00	3,908.86
Salaries	-	26,345.26
Travel and transportation	56.00	6,594.08
Supplies - food	-	4,579.02
Supplies - miscellaneous	-	3,909.70
Equipment rentals	-	2,681.39
Maps and prints	76.31	1,969.28
General	-	242.80
Freight	-	8,472.31
Radio licences	-	20.00
Telephone and postage	56.42	466.62
Recording fees	-	40.25
Assays	-	1,454.02
Property taxes	-	<u>506.20</u>
	<u>468.73</u>	<u>89,416.05</u>

GRAND TOTAL

*John Poloni*

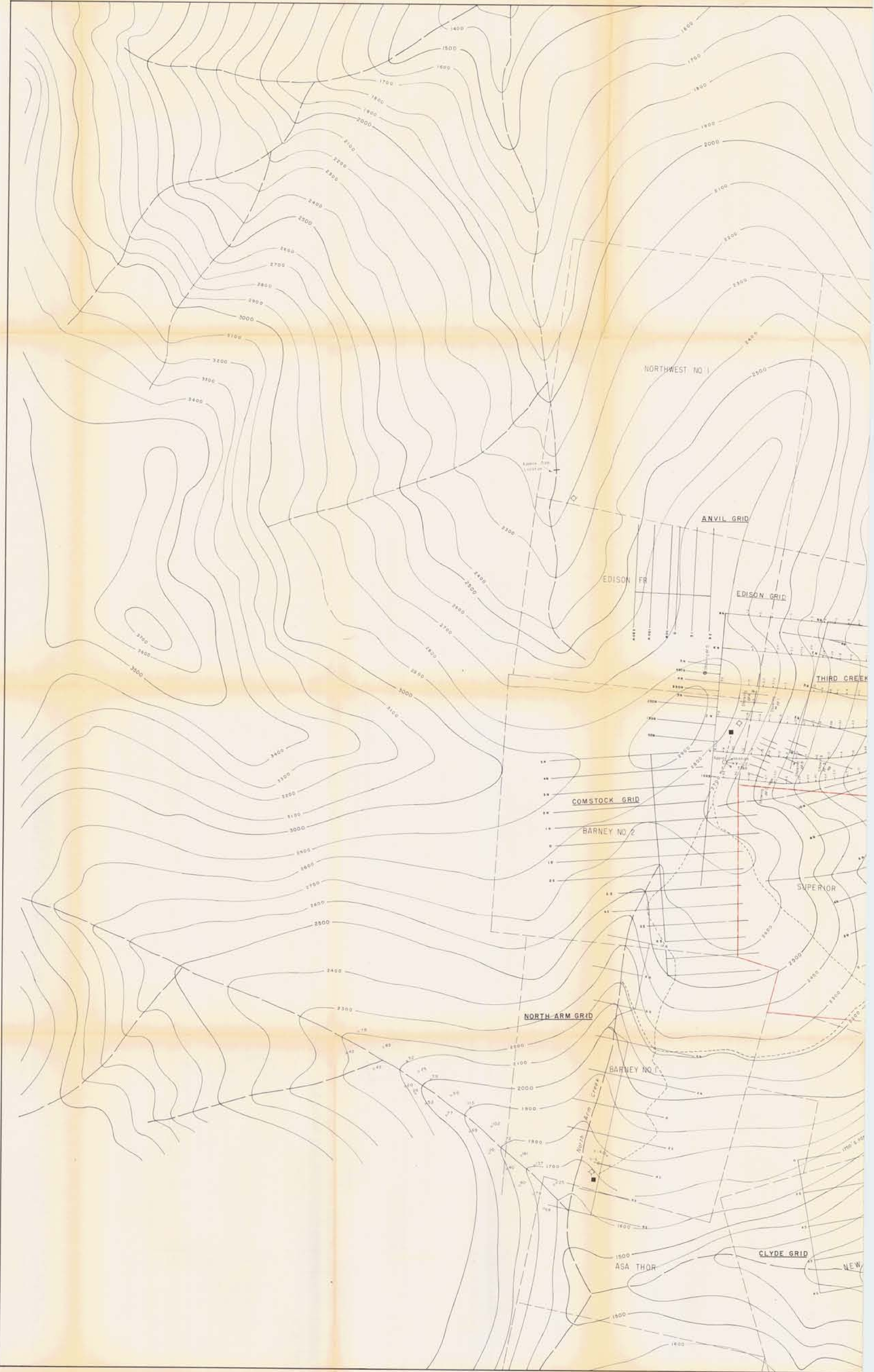
Department of  
 Mines and Geology Resources  
 ANNUAL REPORT  
 NO. 4425 MAP

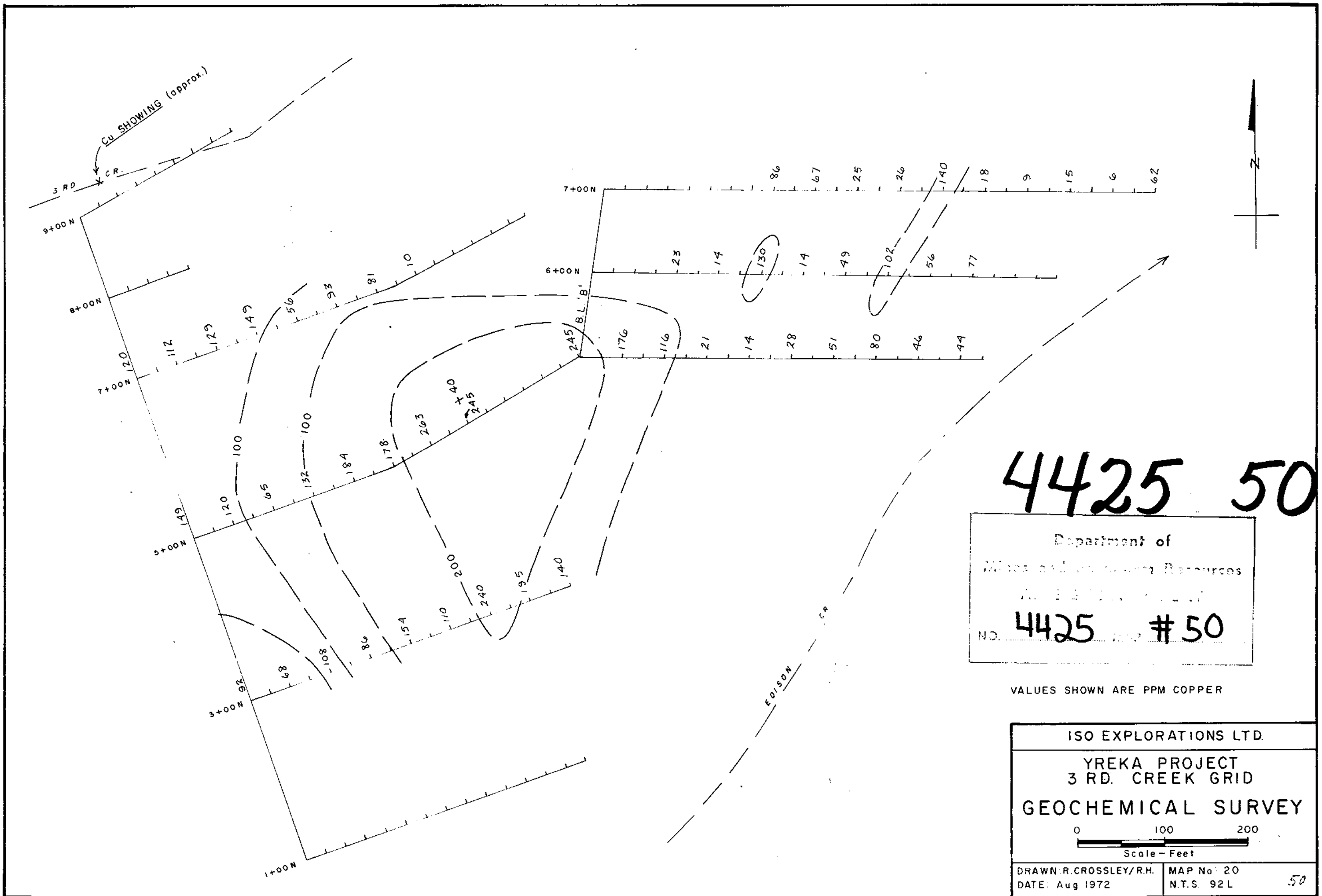
Yreka - Personnel Employed in 1972 by Iso Explorations Limited

<u>Name</u>	<u>Title</u>	<u>Dates</u>	<u>Rate</u>	<u>Amount of Wages</u>
J. M. Carr	supervisor	June 6-10, July 24-26 (7 days)	\$100/day	\$ 700
R. V. Crossley	geologist	June 6 - Sept 23 (109 days)	\$ 75/day	\$ 8,175
Bing Lovang	prospector	April 4 - Sept 24 (172 days)	\$ 45/day	\$ 7,740
E. O. Raven	prospector	April 4 - Sept 24 (172 days)	\$ 32/day	\$ 5,536
E. W. Raven	prospector- helper	July 18 - Sept 24 (68 days)	\$ 25/day	\$ 1,700
Mike Kolinsky	prospector- helper	August 1 - 7 (7 days)	\$ 25/day	\$ 175
B. Hainsworth	instrument man	June 6 - Aug. 20 (75 days)	\$ 25/day	\$ 1,875
M. Siscoe	instrument man	June 6 - Aug 20 (75 days)	\$ 25/day	\$ 1,875

*John Poloni*







Department of  
 Mines and Geothermal Resources  
 No. 4425 #50

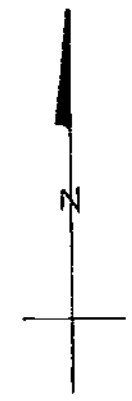
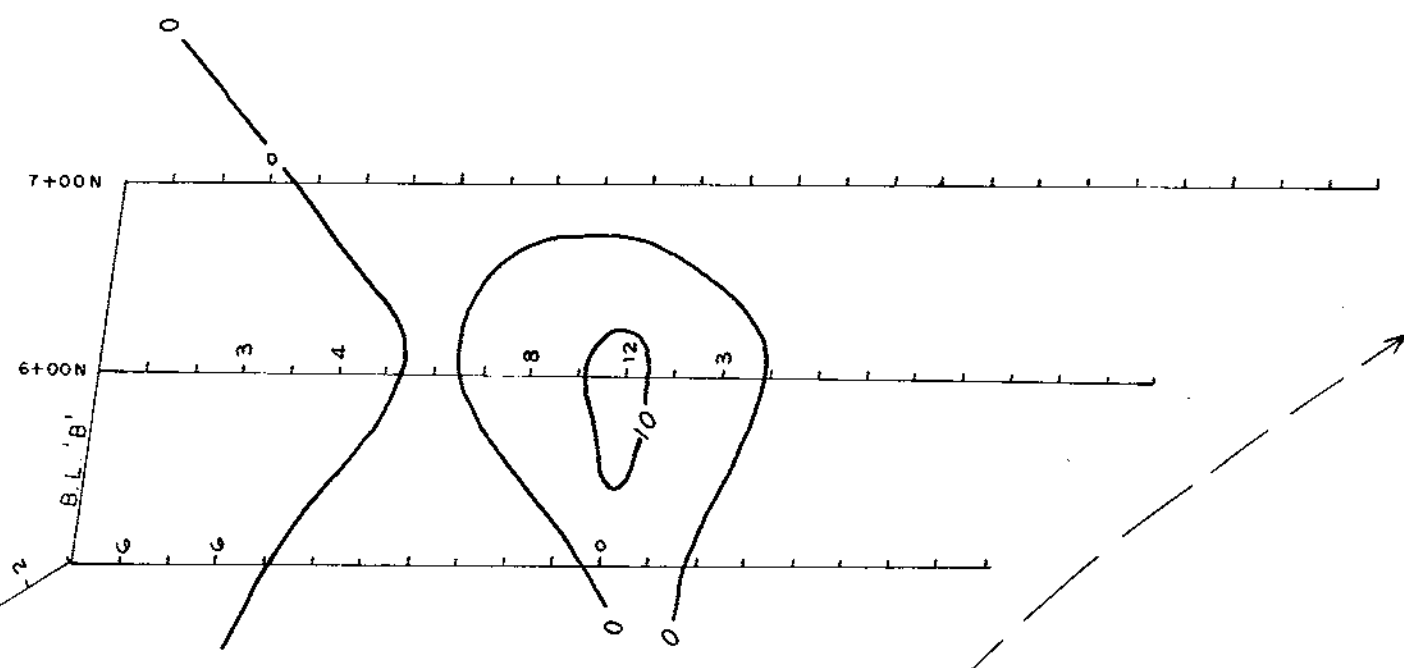
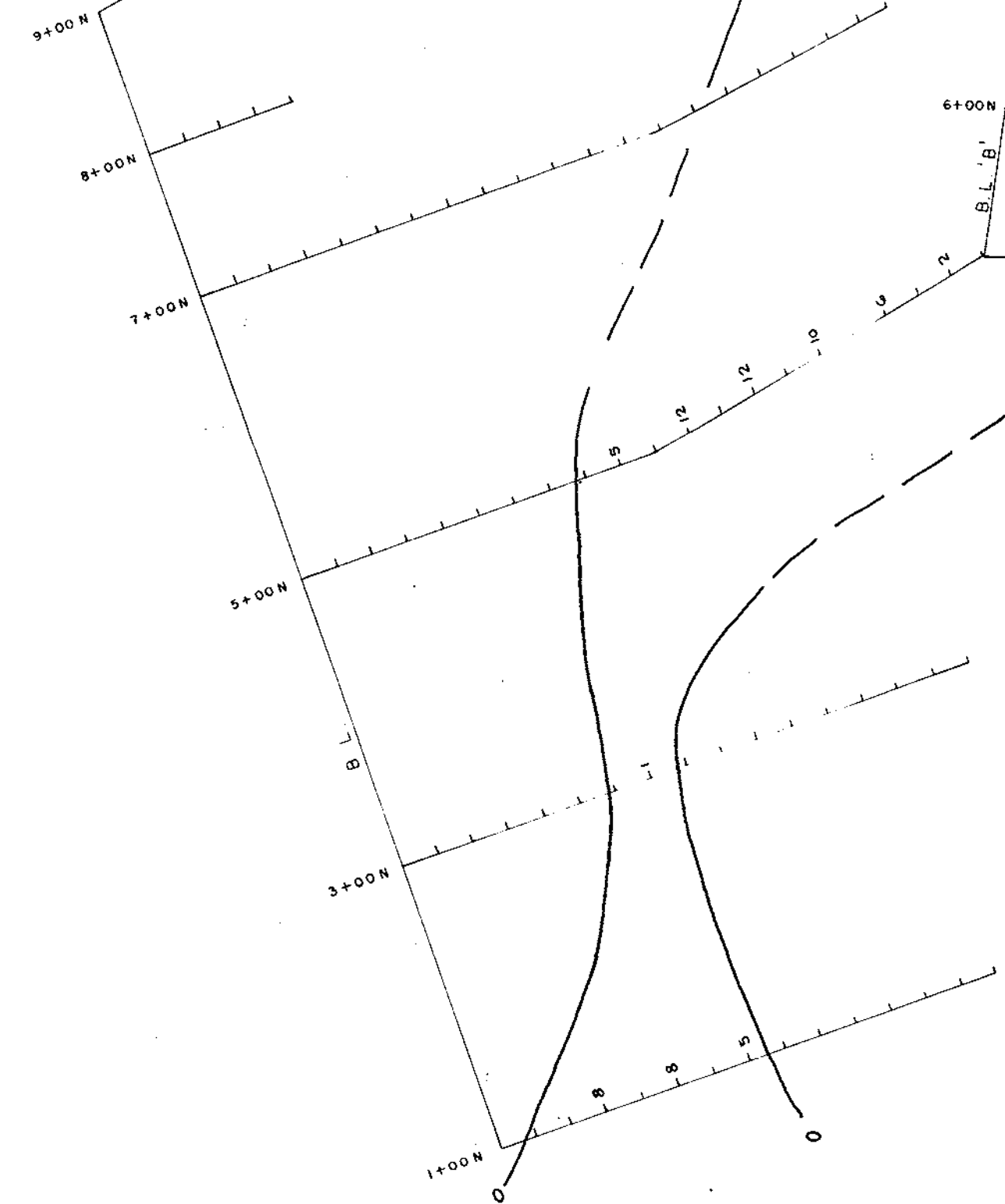
VALUES SHOWN ARE PPM COPPER

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 3 RD. CREEK GRID  
 GEOCHEMICAL SURVEY

0 100 200  
 Scale - Feet

DRAWN: R. CROSSLEY/R.H. MAP No: 20  
 DATE: Aug 1972 N.T.S. 92L 50

3 RD. C.R.  
Cu SHOWING (approx.)

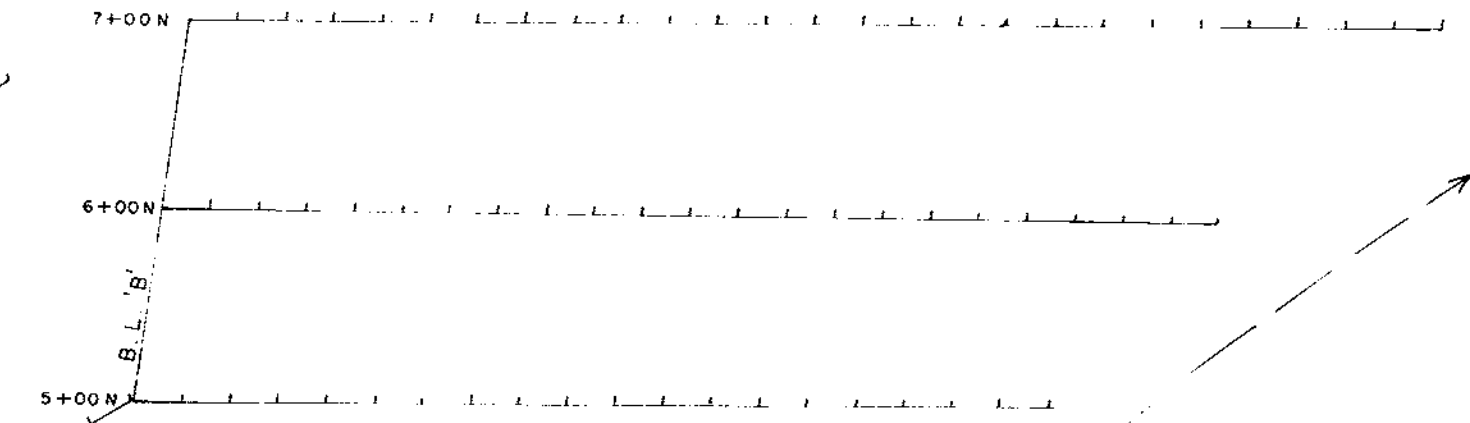
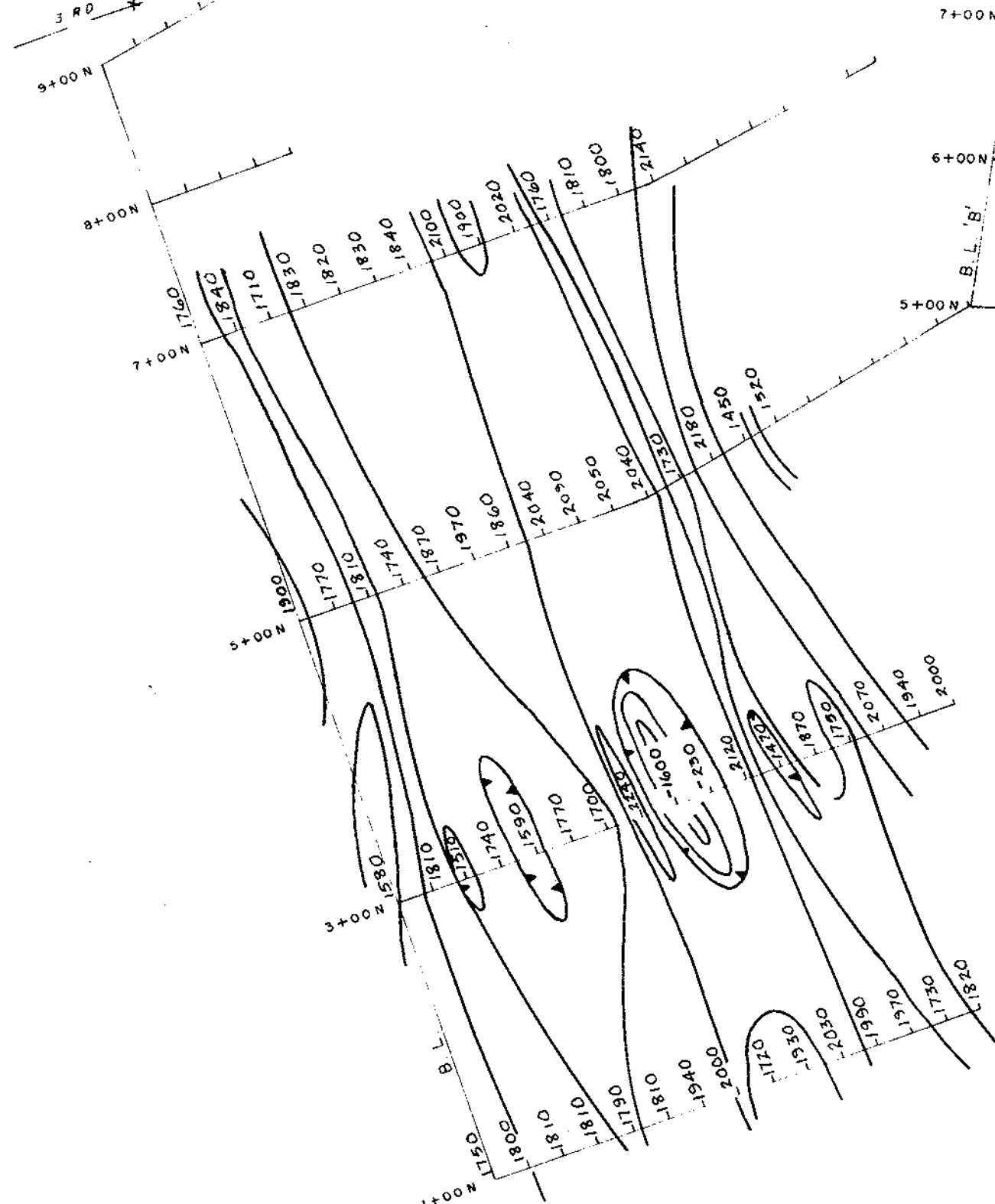


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Department of  
Mines and Geotechnical Resources  
NO. 4425 MAP #49

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
3 RD. CREEK GRID  
V.L.F. ELECTROMAGNETIC SURVEY  
Scale - Feet  
0 100 200  
DRAWN: R. CROSSLEY/R.H. MAP No: 19  
DATE: Aug. 1972 N.T.S. 92L 49

3 RD CR.  
Cu SHOWING (approx.)



EDISON CR.

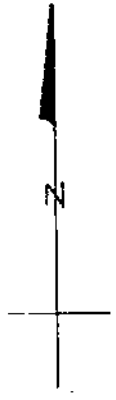
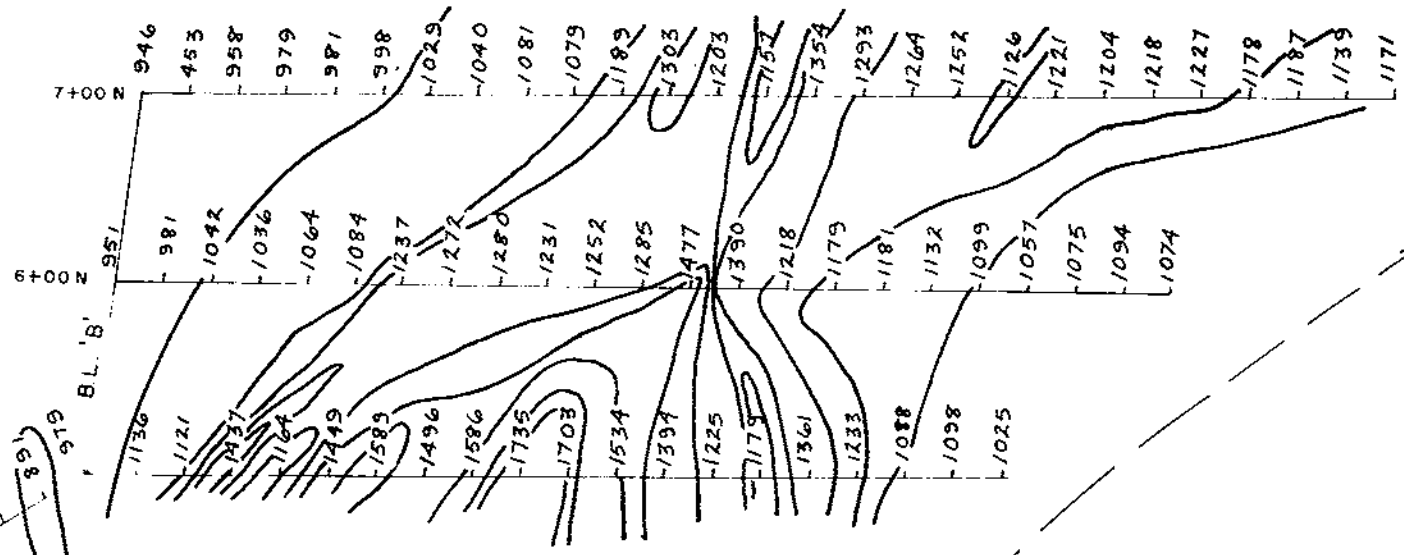
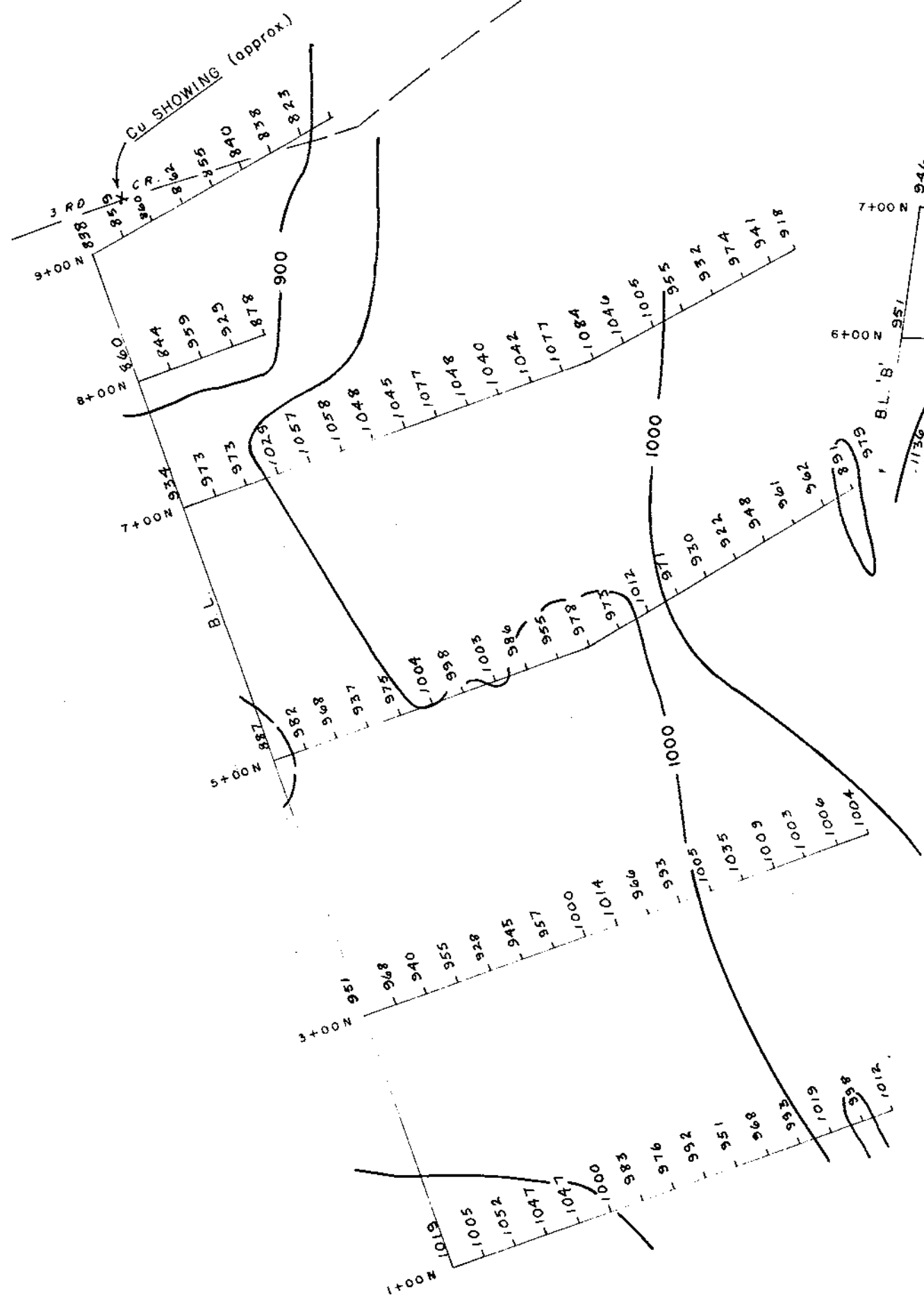
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Mines and Geophysical Resources  
ASSESSMENT UNIT  
NO. 4425 #48

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
3 RD. CREEK GRID  
MAGNETOMETER SURVEY

0 100 200  
Scale - Feet

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DATE: Aug. 1972 N.T.S. 92L 48



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Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #47

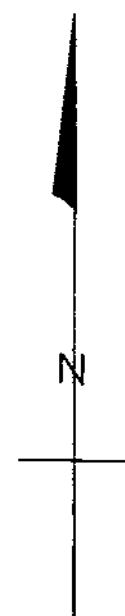
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YREKA PROJECT  
3 RD. CREEK GRID  
SELF-POTENTIAL SURVEY

0 100 200  
Scale - Feet

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DATE: Aug. 1972 N.T.S. 92 L

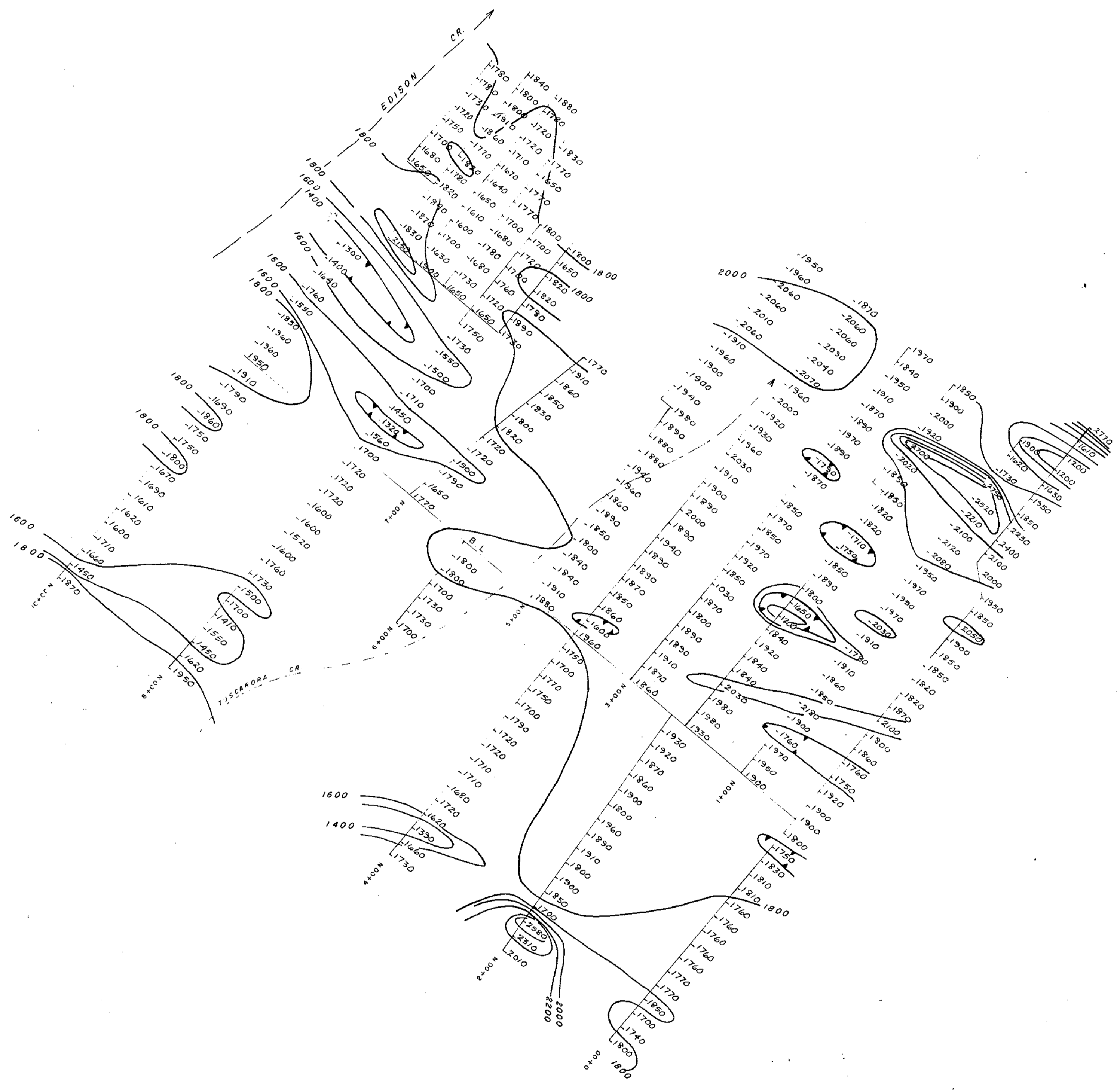
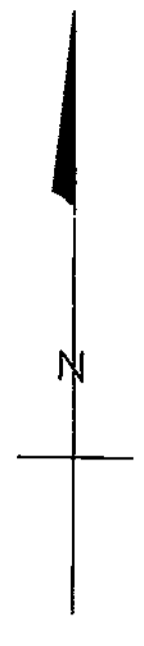
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BRITISH COLUMBIA  
NO. 4425 MAP #46

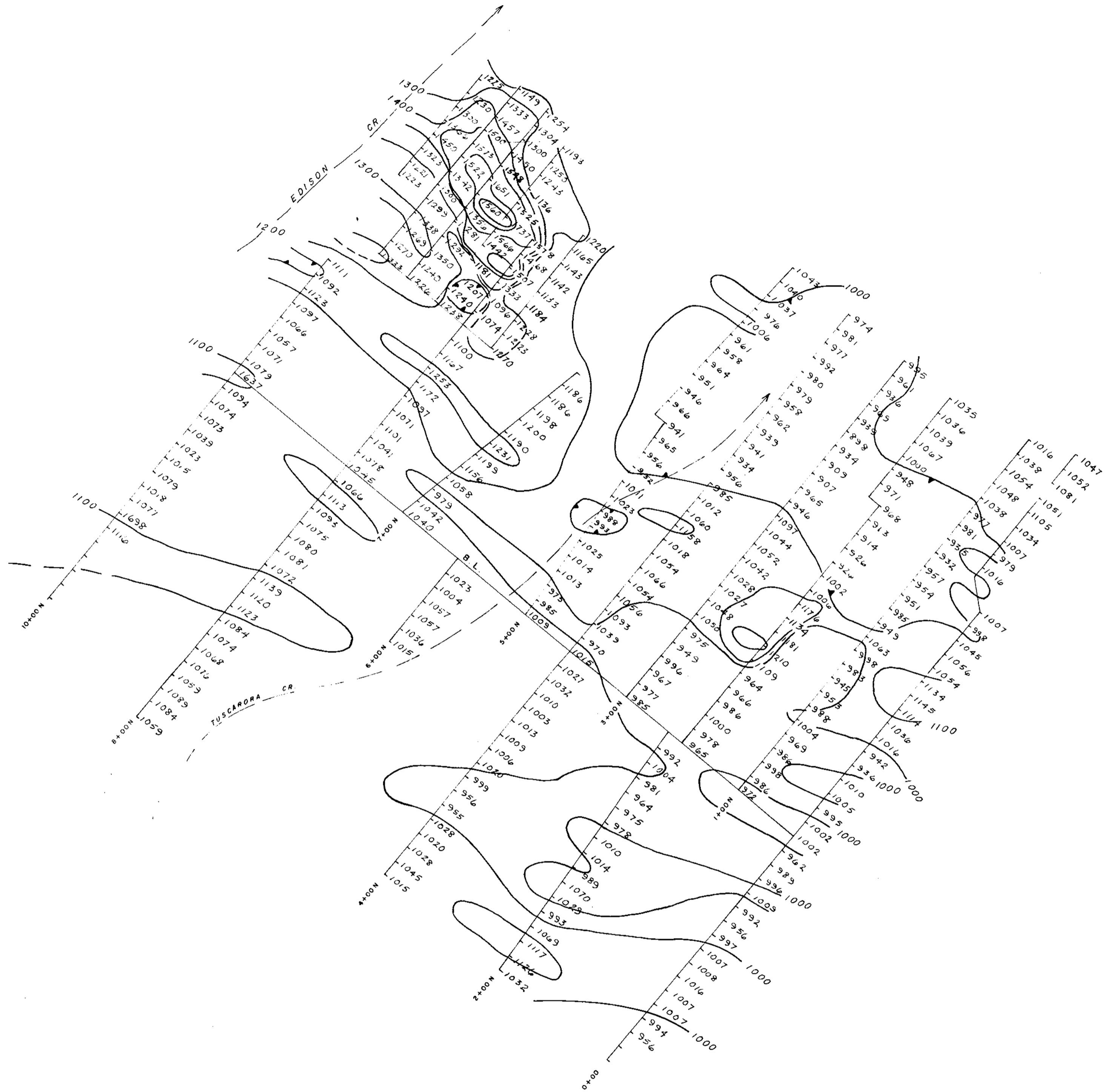
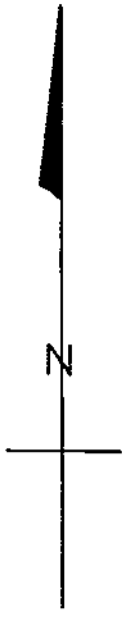
ISO EXPLORATIONS LTD.		
YREKA PROJECT SUPERIOR GRID		
<b>VLF ELECTROMAGNETIC SURVEY</b>		
DRAWN: R. CROSSLEY/R.H. DATE: AUG 1972	REVISED DATE:	MAP No. 33 NTS: 92/L



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Department of  
Mines and Petroleum Resources  
20123 1st St. S.W.  
NO. 4425 MAP #45

ISO EXPLORATIONS LTD.		
YREKA PROJECT SUPERIOR GRID		
<b>MAGNETOMETER SURVEY</b>		
DRAWN: R. CROSSLEY/R.H. DATE: AUG. 1972	REVISED: DATE:	MAP No: 32 NT.S. 92/L



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Department of  
Mines and Petroleum Resources  
ACCESSION # 4425  
NO. 4425 MAP #44

ISO EXPLORATIONS LTD.

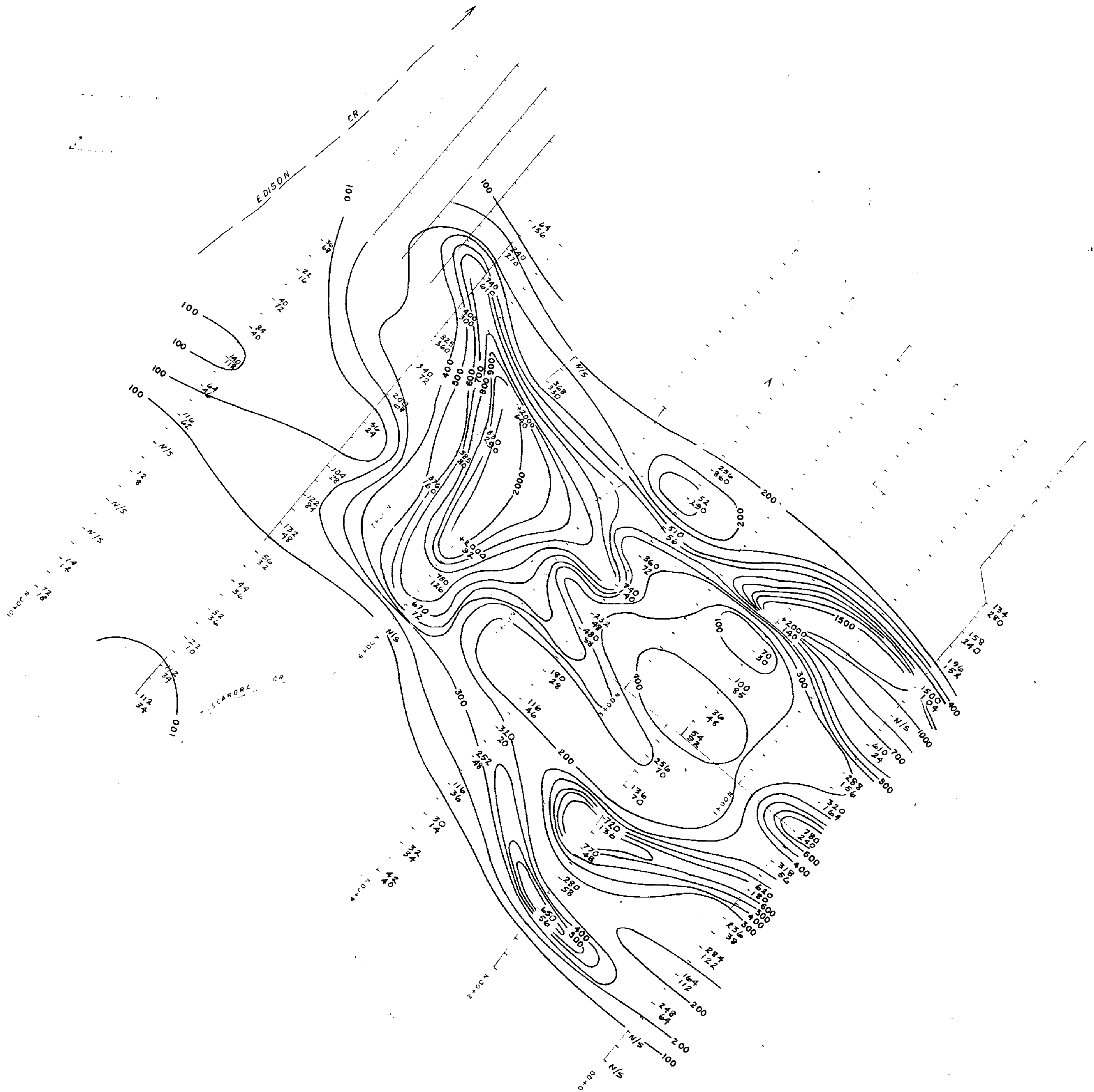
YREKA PROJECT  
SUPERIOR GRID

**SELF-POTENTIAL SURVEY**

0 100 200 300 400  
Scale - Feet

DRAWN: R. CROSSLEY / R.H.	REVISED:	MAP No: 31	44
DATE: AUG. 1972	DATE:	NTS. 92/L	





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Department of  
Mines and Petroleum Resources  
4425 43  
NO. 4425 MAP #43

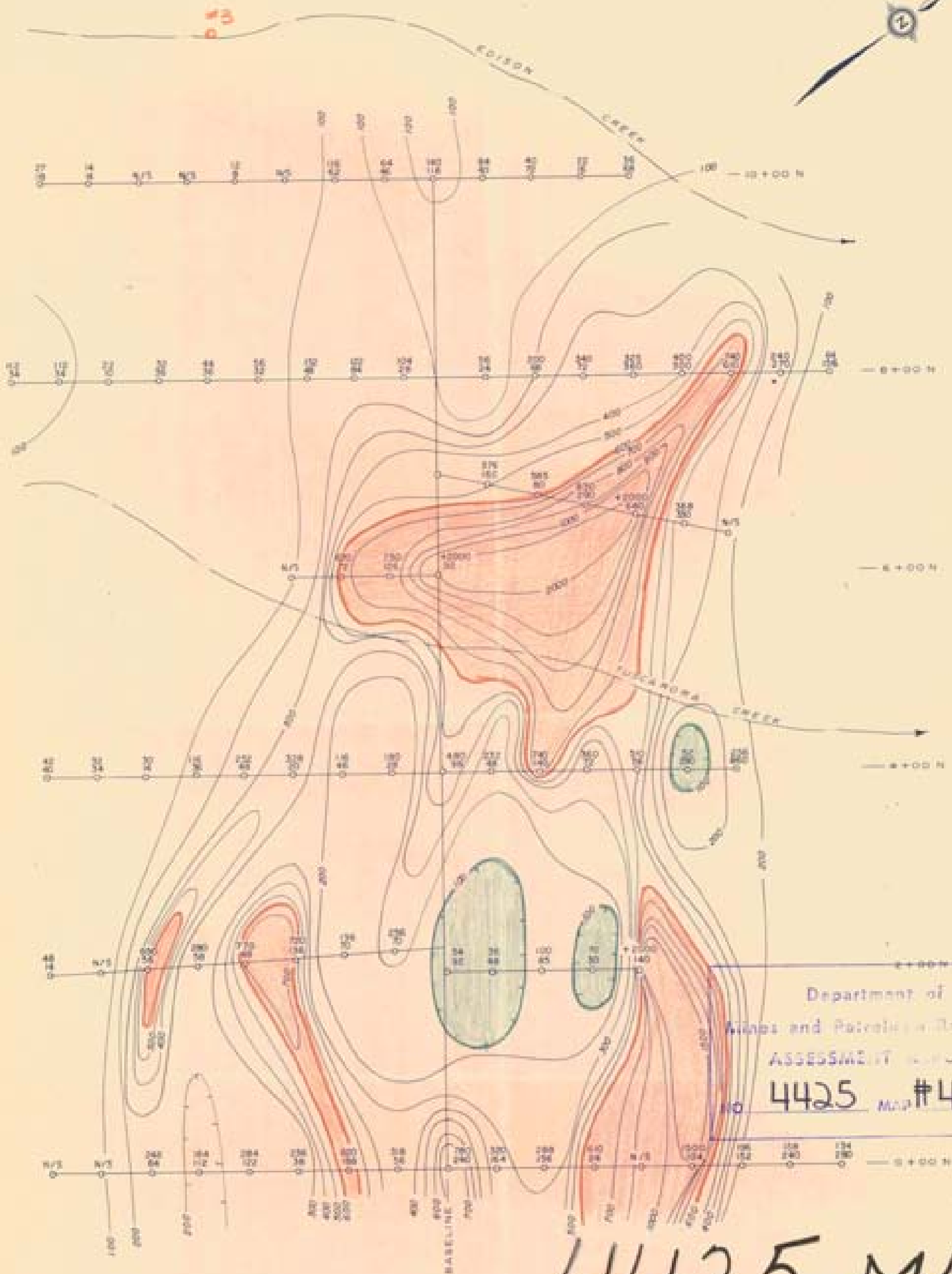
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YREKA PROJECT  
SUPERIOR GRID  
GEOCHEMICAL SURVEY

0 100 200 300 400  
Scale - Feet

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 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 No 4425 MAP #42

4425 M42

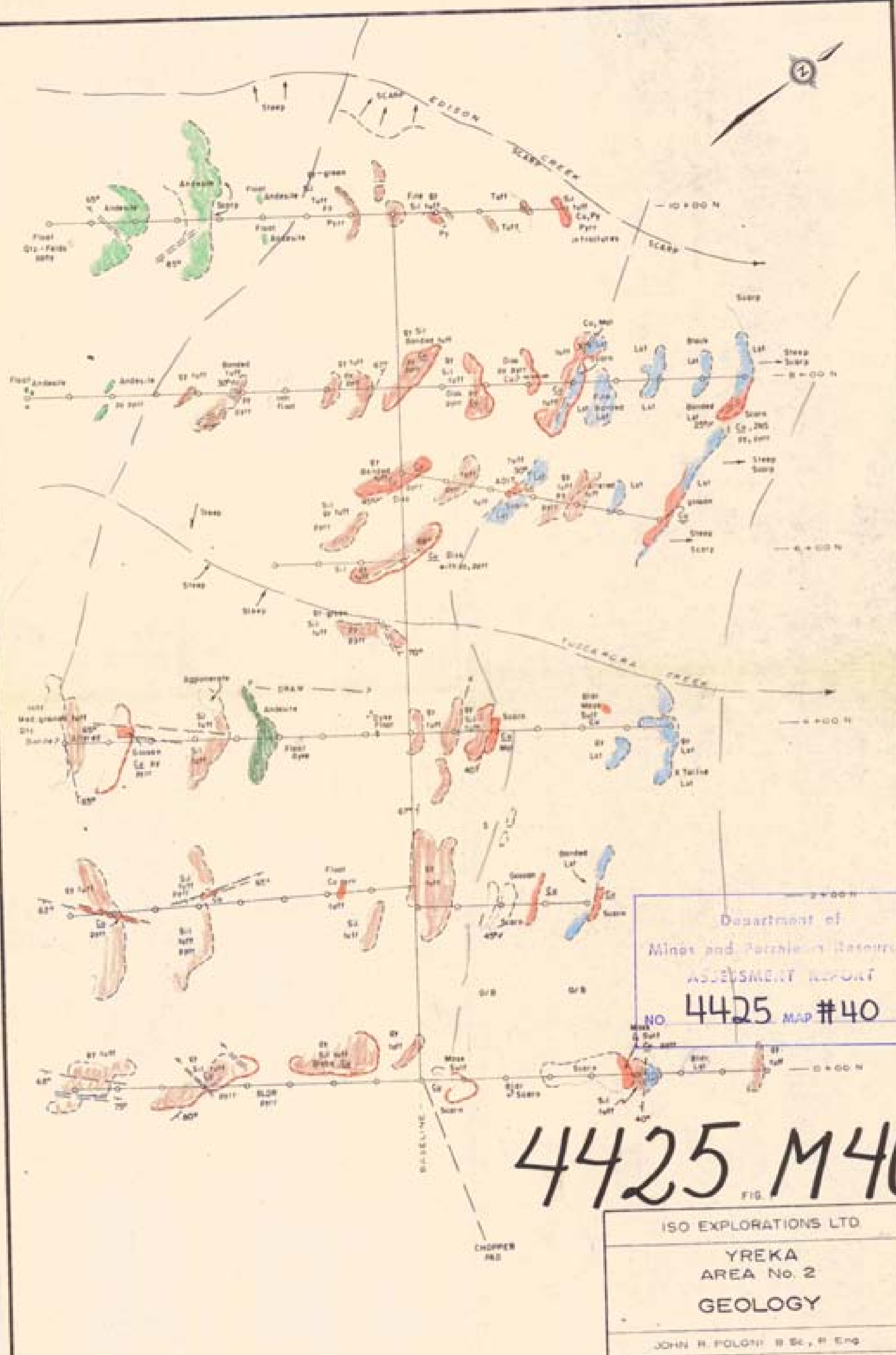
**LEGEND - Cu**

- A. Lat
  - 0 - 60 ppm Background
  - 61 - 100 ppm Threshold
  - >100 ppm Anomalous
- B. Tufts - Volcanics
  - 0 - 80 ppm Background
  - 81 - 100 ppm Threshold
  - >100 ppm Anomalous

Total Cu  
 Total Zn

150 EXPLORATIONS LTD	
<b>YREKA</b> AREA No 2 <i>(Superior grid)</i> <b>GEOCHEMISTRY</b>	
JOHN R. POLONI B.Sc., P. Eng.	
SCALE 1" = 100'	JULY 18, 1972 42





Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 4425 MAP #40

4425 M40

ISO EXPLORATIONS LTD  
 YREKA  
 AREA No. 2  
 GEOLOGY  
 JOHN R. POLONI, B.Sc., P. Eng.  
 SCALE 1" = 100'      JULY 18, 1972 40

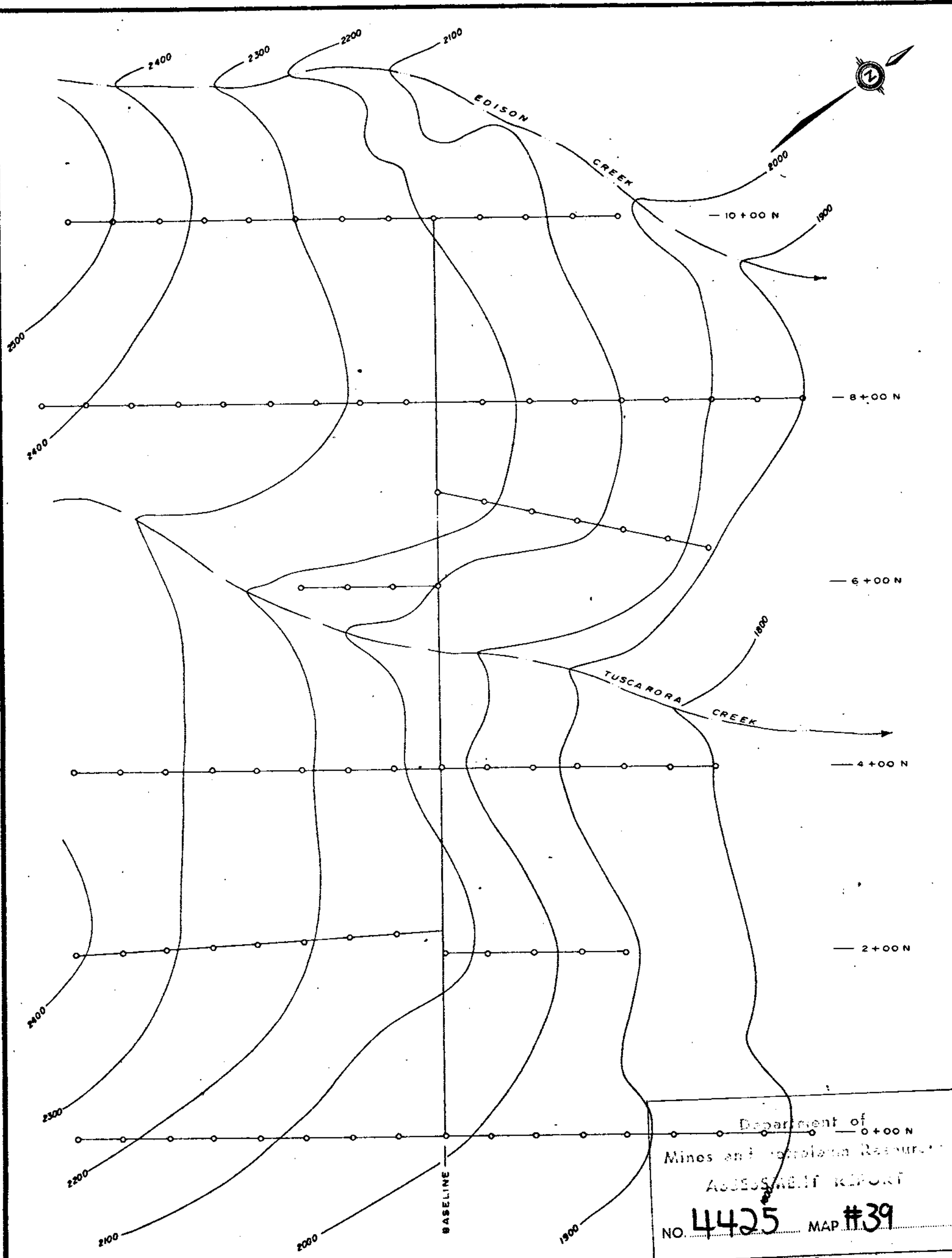
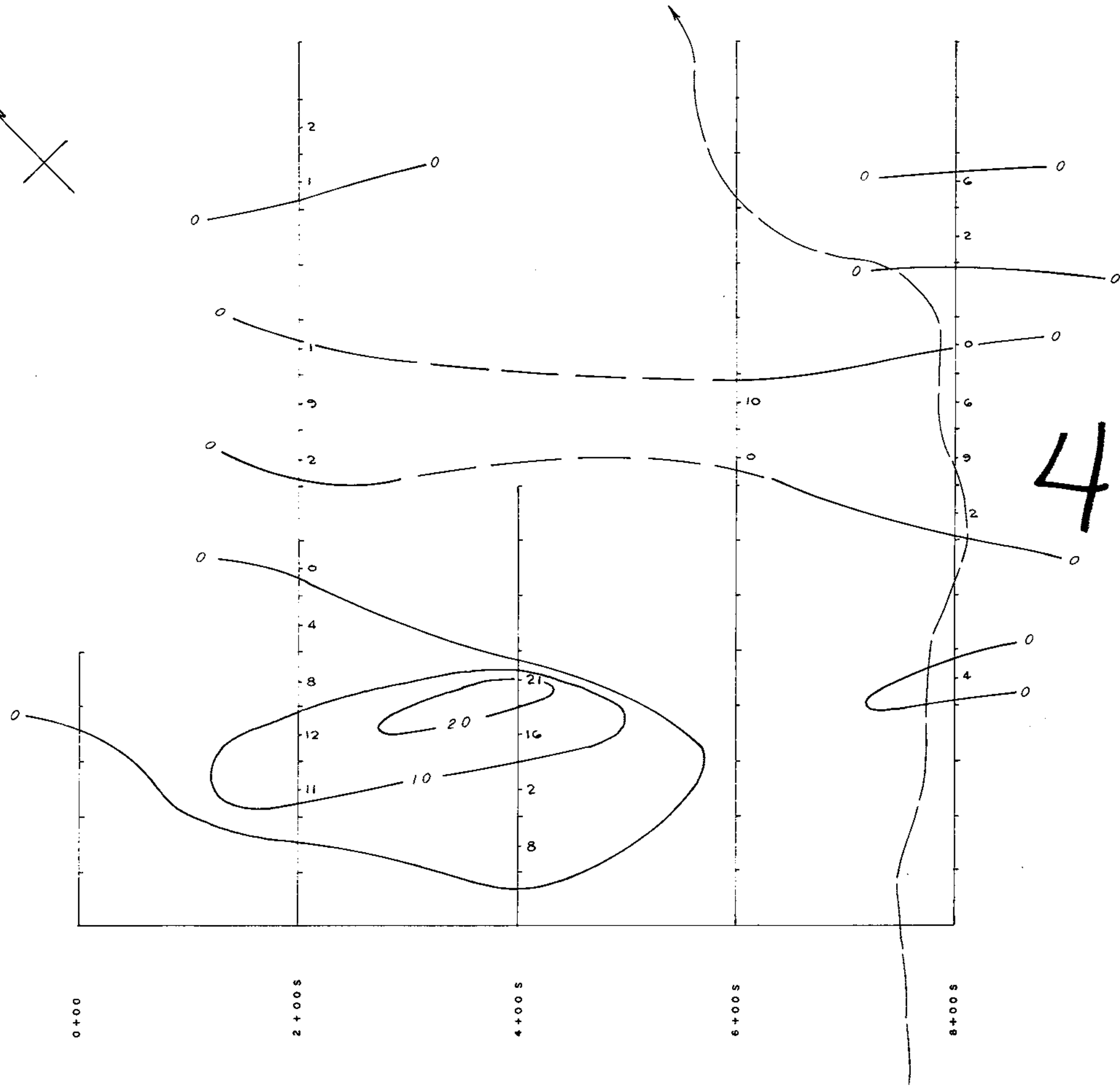
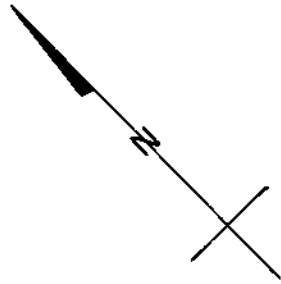


FIG. 2

4425 M39

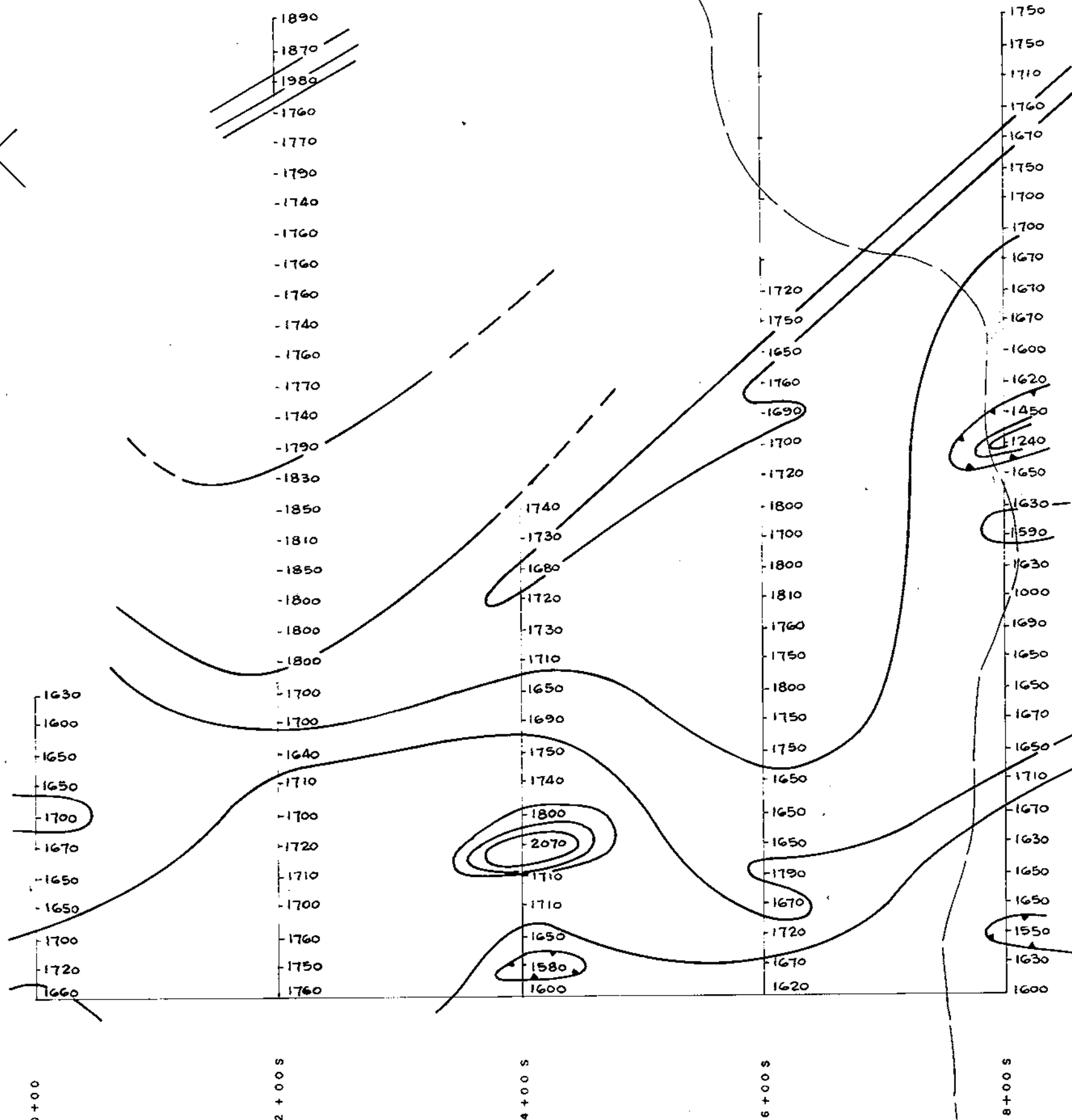
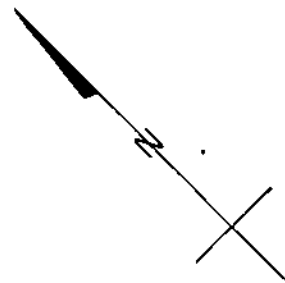
ISO EXPLORATIONS LTD	
YREKA AREA No. 2 (Superior grid) TOPOGRAPHY	
JOHN R. POLONI B Sc, P Eng	
SCALE: 1" = 100'	JULY 18, 1972 39



4425 M38

Department of  
Mines and Technical Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #38

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
CLYDE GRID  
V.L.F. ELECTROMAGNETIC SURVEY  
0 100 200  
Scale - Feet  
DRAWN: R. CROSSLEY/O.C. MAP No: 28  
DATE: Aug. 1972 N.T.S. 92L 38



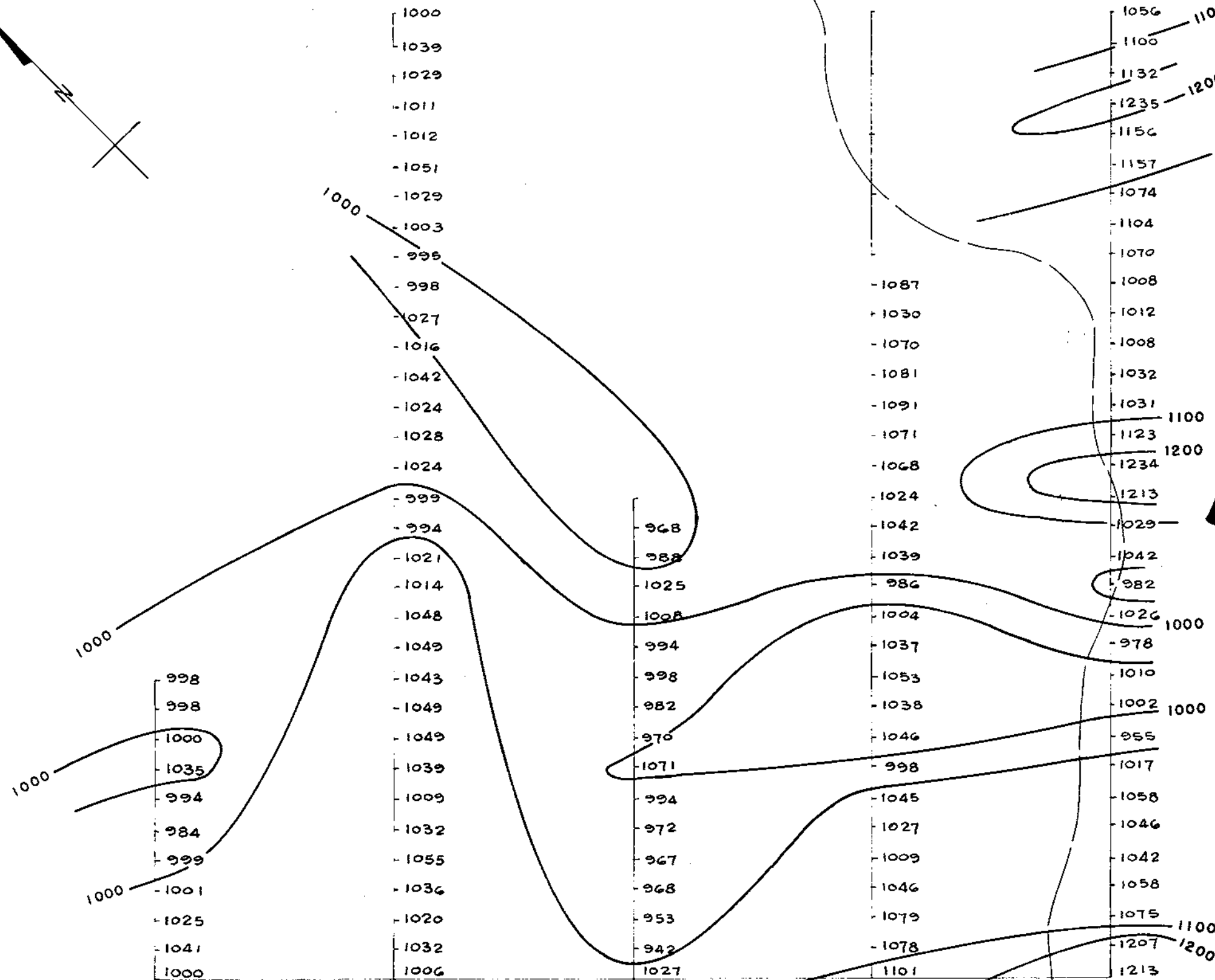
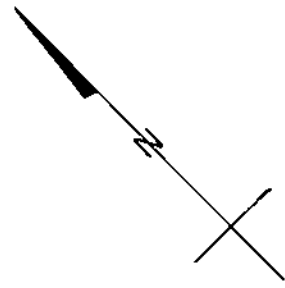
4425 M37

Department of  
Mines and Technical Resources  
ASSESSMENT REPORT  
NO. 4425 M.P. #37

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
CLYDE GRID  
MAGNETOMETER SURVEY

0 100 200  
Scale - Feet

DRAWN: R. CROSSLEY/O.C. MAP No: 27  
DATE: Aug. 1972 N.T.S. 92L

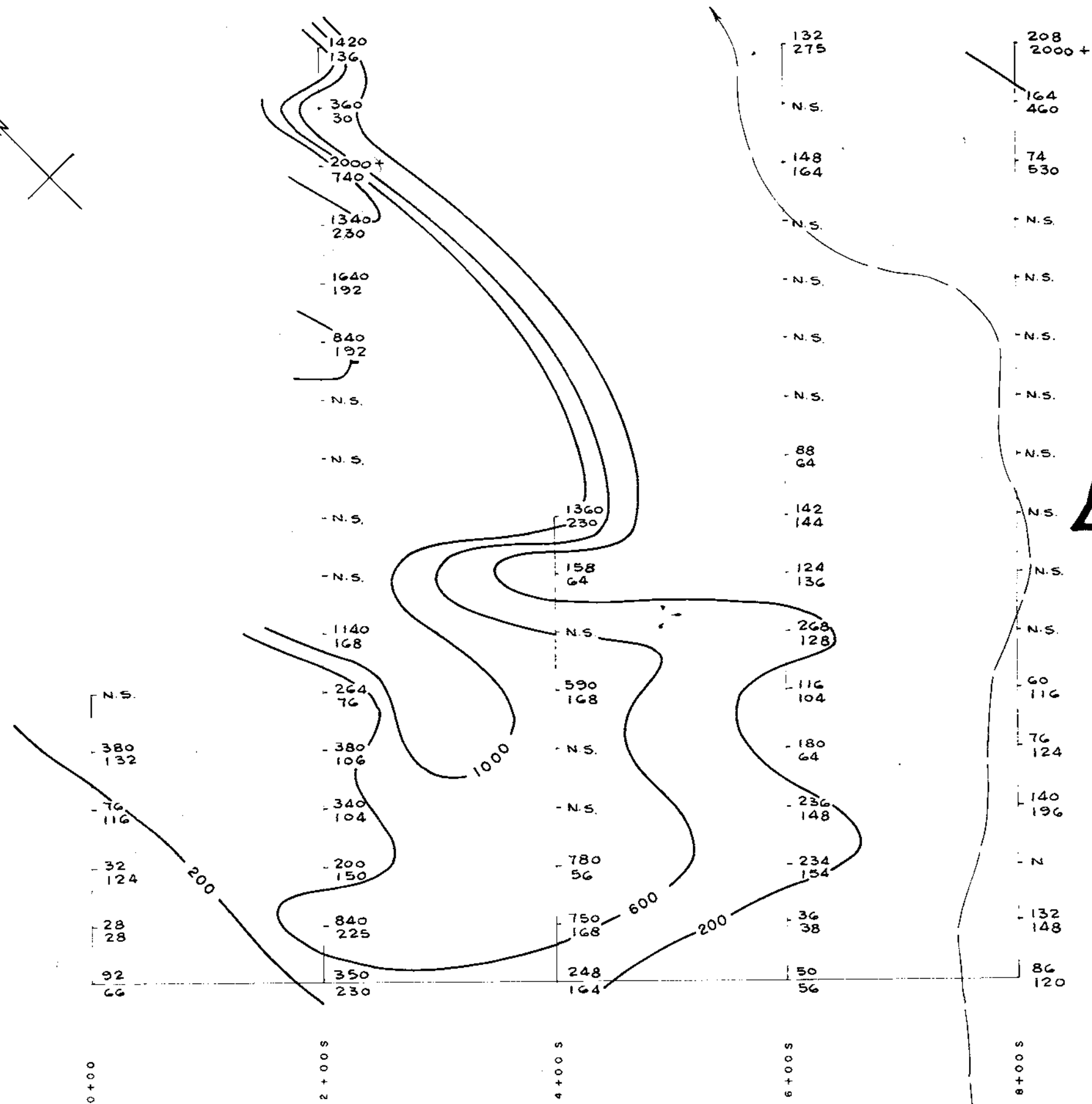
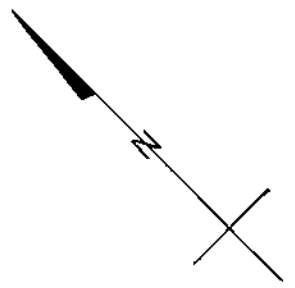


4425 M36

Department of  
Mines and Technical Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #36

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
CLYDE GRID  
SELF-POTENTIAL SURVEY  
0 100 200  
Scale - Feet  
DRAWN: R. CROSSLEY/O.C. MAP No: 26  
DATE: Aug. 1972 N.T.S. 92L 36





4425 M35

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #35

LEGEND  
60 TOTAL Cu. - PPM.  
116 TOTAL Zn. - PPM.  
THRESHOLD 200PPM Cu.

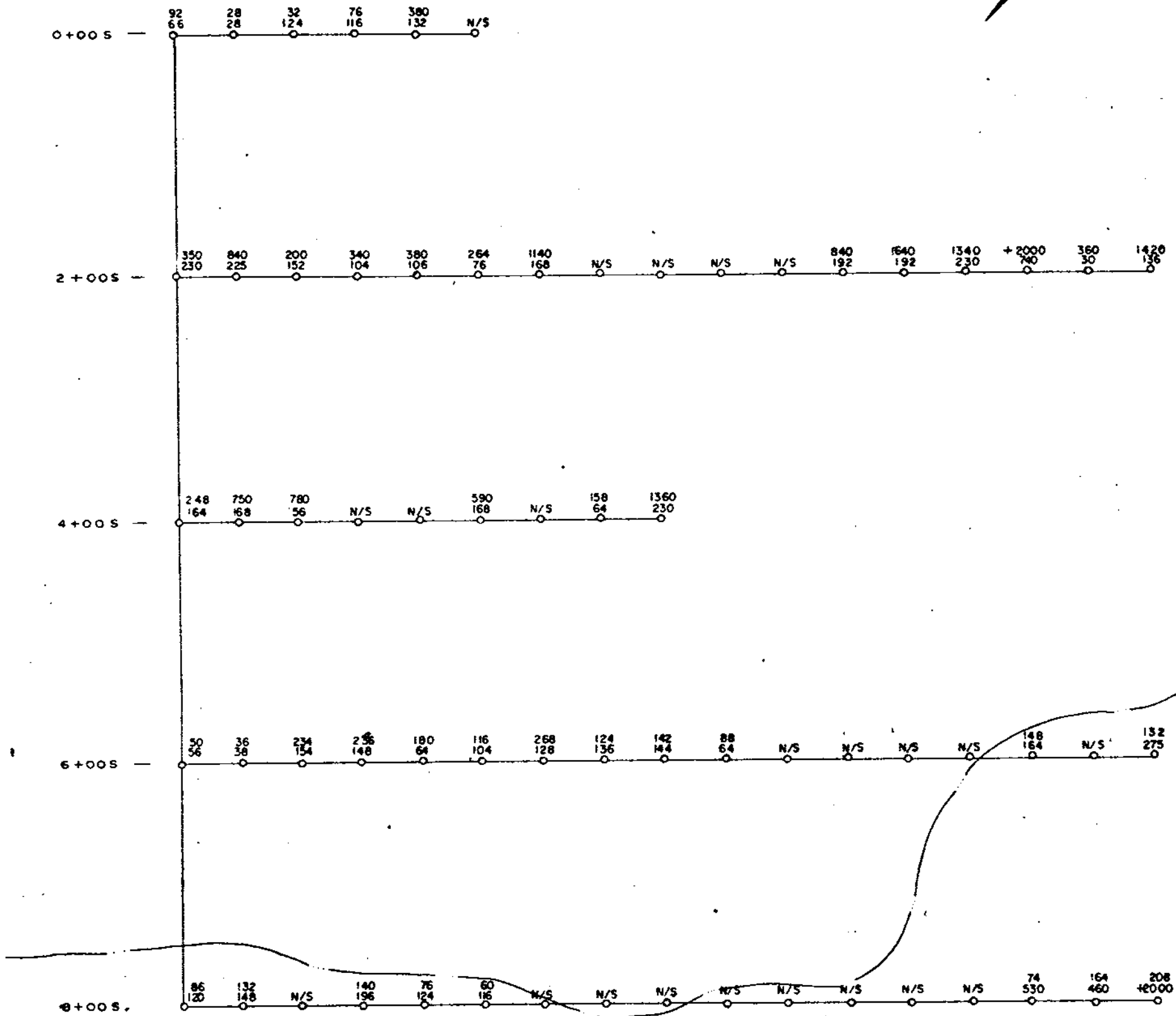
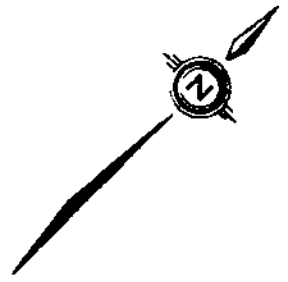
ISO EXPLORATIONS LTD.

YREKA PROJECT  
CLYDE GRID  
GEOCHEMICAL SURVEY

0 100 200  
Scale - Feet

DRAWN: POLONI/O.C. MAP No 29  
DATE: Aug. 1972 N.T.S. 92L

35



4425 M 34

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #34

**LEGEND**  
Total Cu in ppm.  
Total Zn in ppm.

FIG. 3

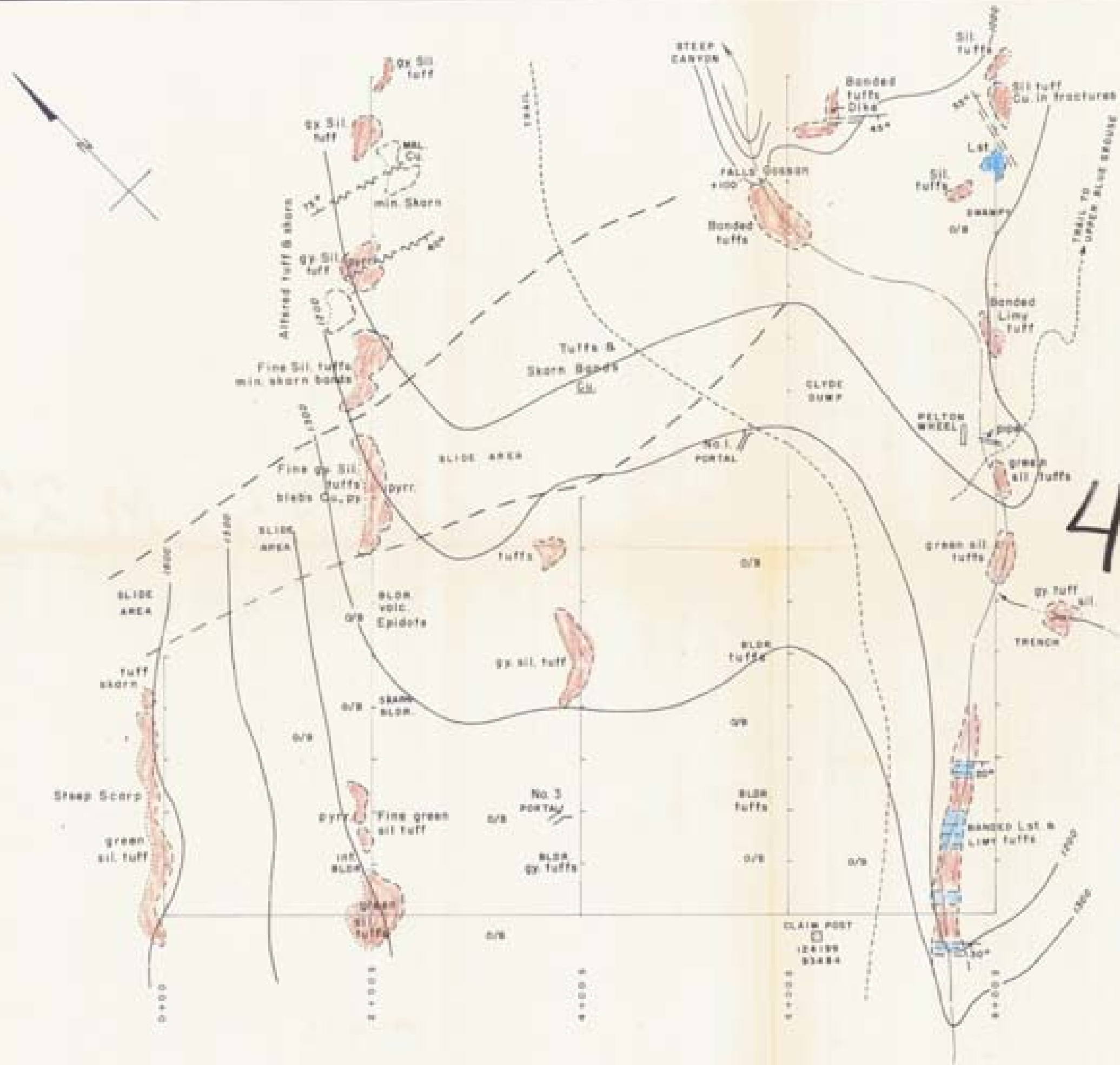
ISO EXPLORATIONS LTD.

YREKA  
CLYDE ZONE  
GEOCHEMISTRY

JOHN R. POLONI B.Sc., P. Eng.

SCALE: 1" = 100'

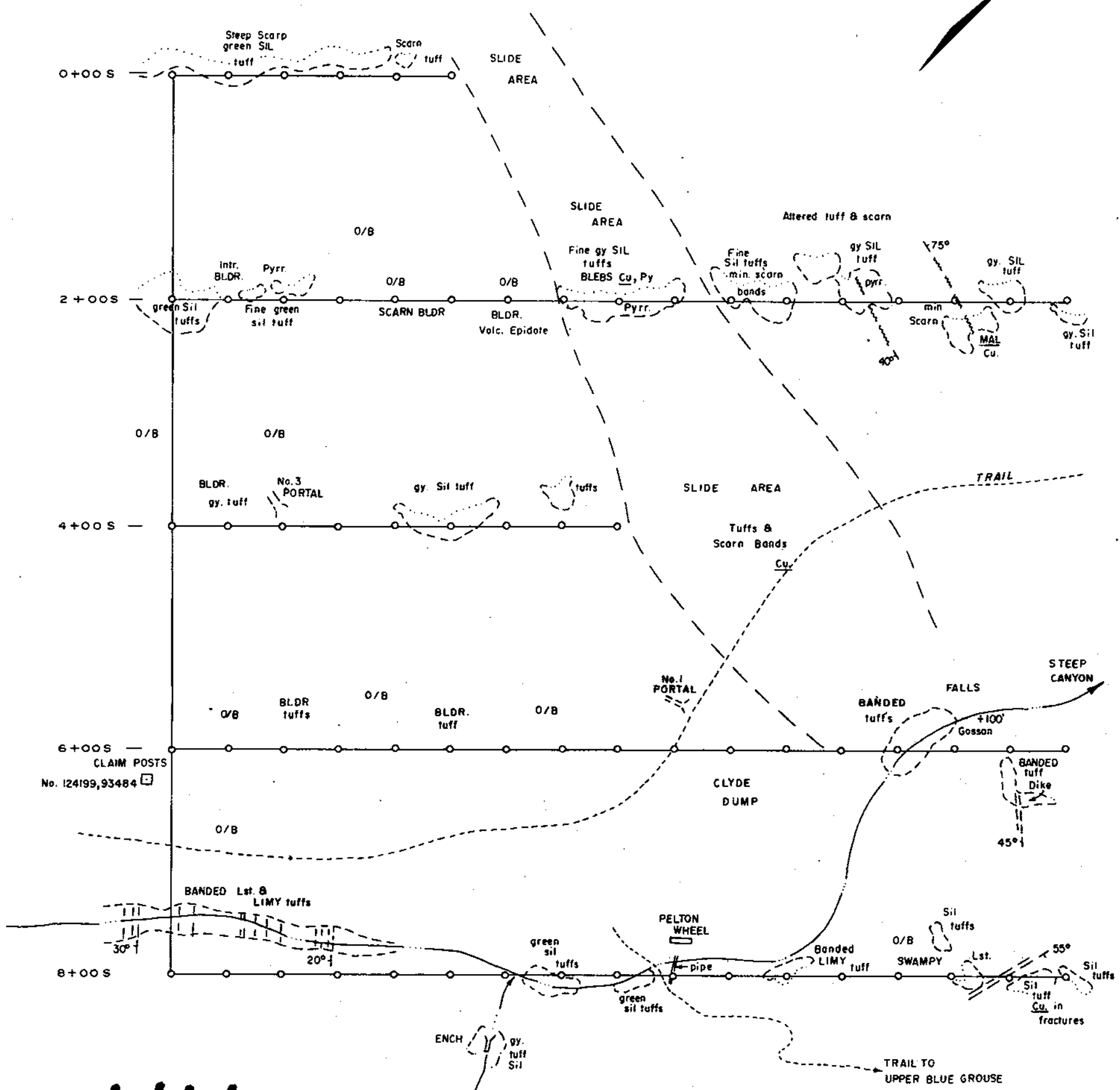
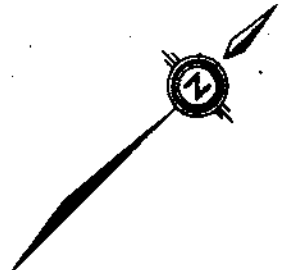
JULY 18, 1972 34



4425 M33

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. 4425 MAP #33

150 EXPLORATIONS LTD.	
YREKA PROJECT CLYDE GRID GEOLOGY	
0 100 200 Scale - Feet	
DRAWN J. POLONI / D.C. DATE Aug 1972	MAP No 30 N.T.S. 92L

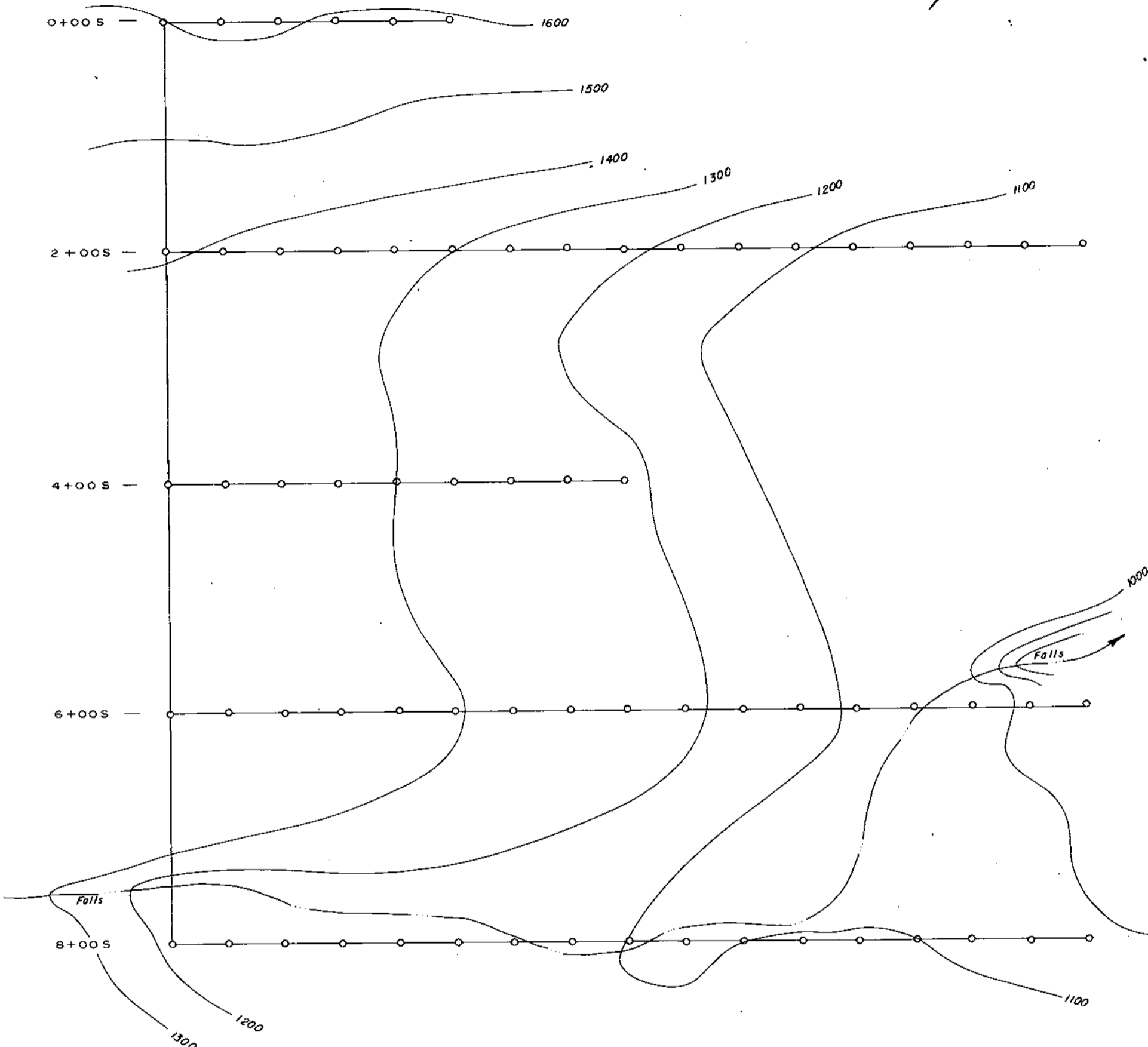
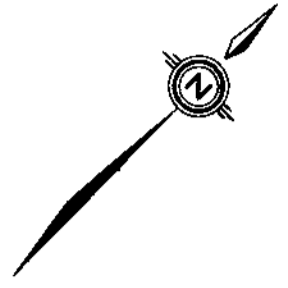


4425 M 32

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #32

FIG 1

ISO EXPLORATIONS LTD.	
YREKA CLYDE ZONE GEOLOGY	
JOHN R. POLONI - B.Sc., P. Eng.	
SCALE: 1" = 100'	JULY 18, 1972 32



4425 M31

Department of  
Mines and Metallurgical Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #31

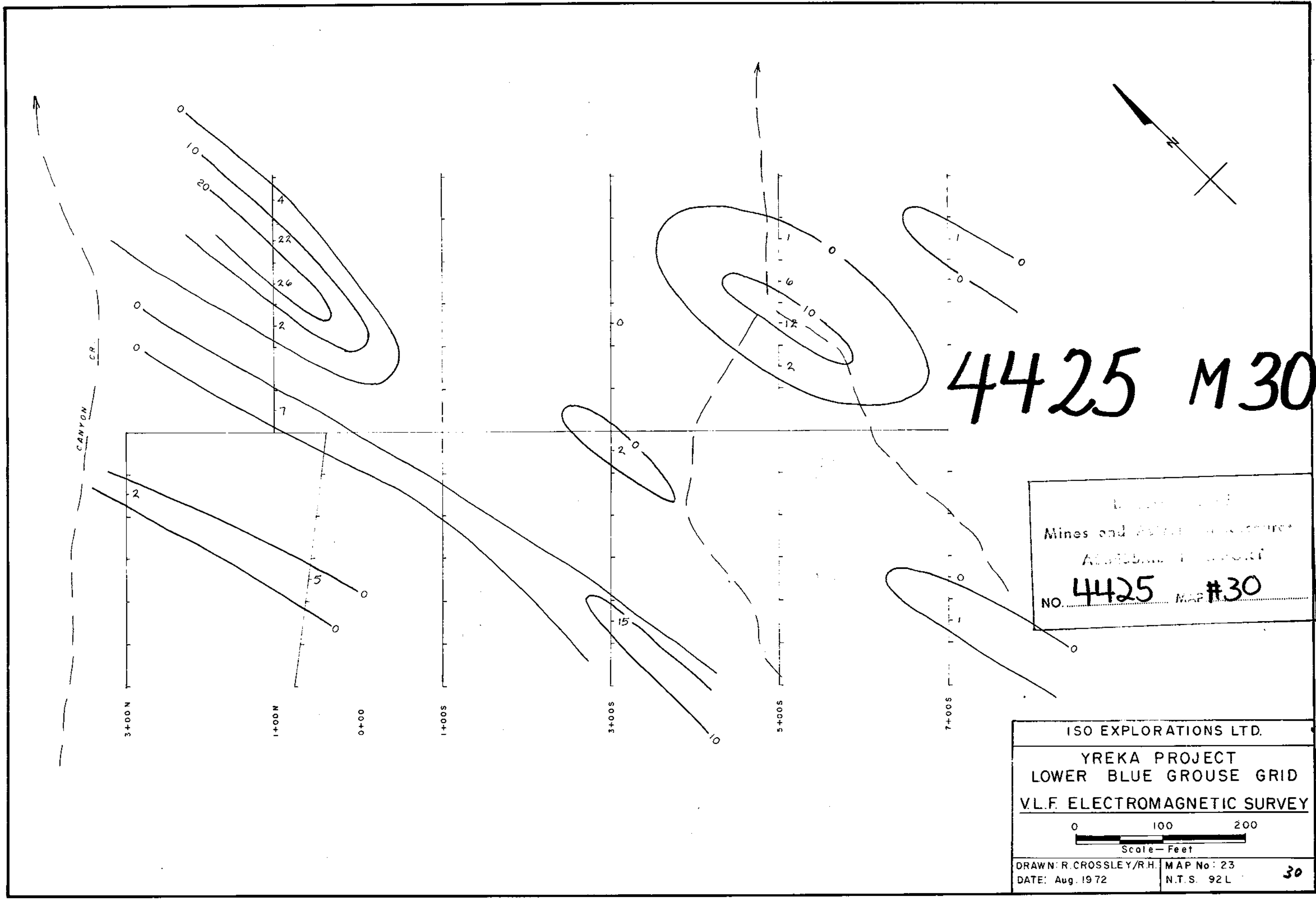
FIG. 2

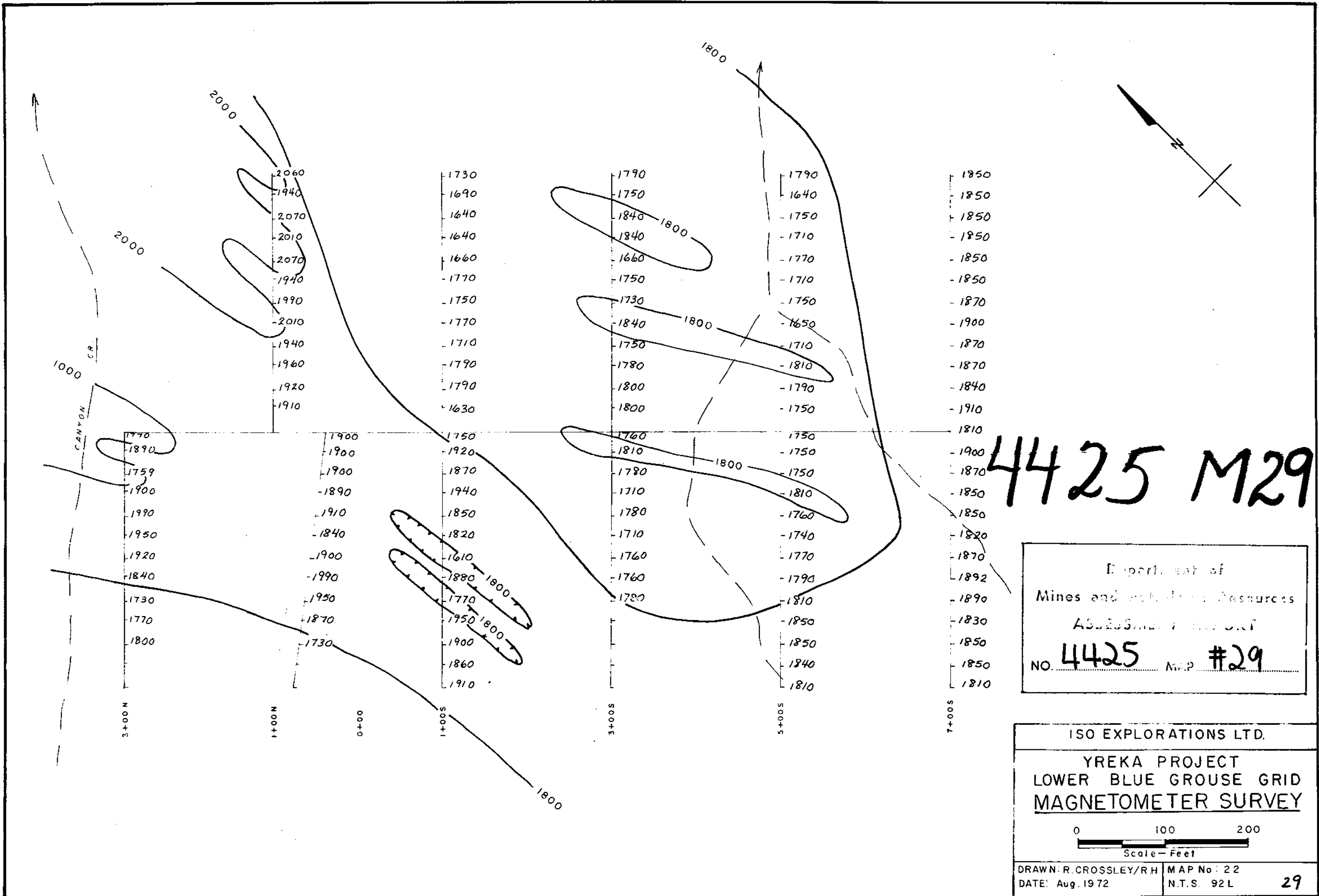
ISO EXPLORATIONS LTD.  
YREKA  
CLYDE ZONE  
TOPOGRAPHY  
JOHN R. POLONI B.Sc., P. Eng  
SCALE: 1" = 100'      JULY 18, 1972/3/

4425 M30

Department of  
Mines and Technical Surveys  
Alaska Division  
NO. 4425 MAP #30

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
LOWER BLUE GROUSE GRID  
V.L.F. ELECTROMAGNETIC SURVEY  
0 100 200  
Scale - Feet  
DRAWN: R. CROSSLEY/R.H. MAP No: 23  
DATE: Aug. 1972 N.T.S. 92L 30





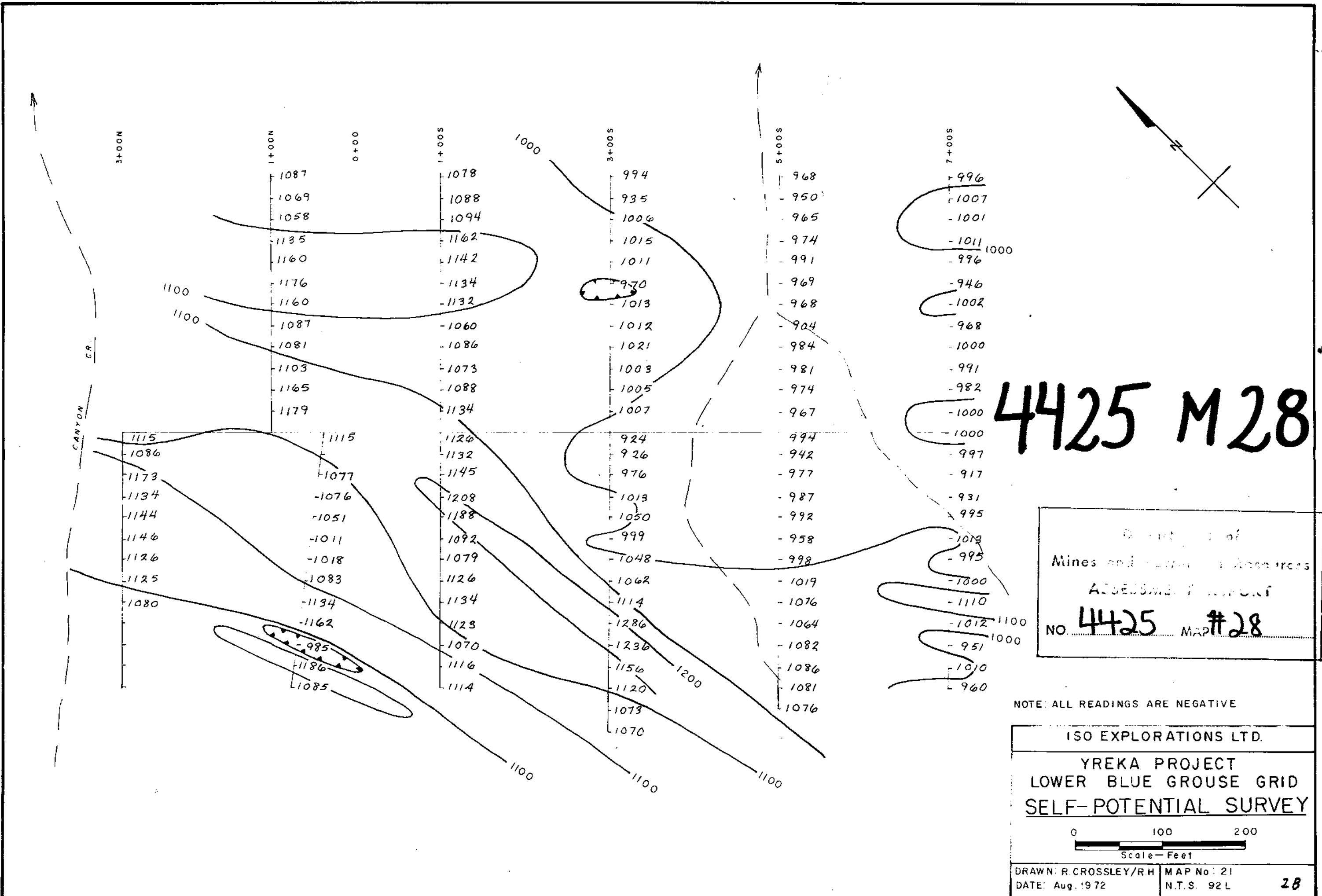
4425 M29

Department of  
 Mines and Geotechnical Resources  
 Assessment Branch  
 NO. 4425 MAP #29

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 LOWER BLUE GROUSE GRID  
 MAGNETOMETER SURVEY

0 100 200  
 Scale - Feet

DRAWN: R. CROSSLEY/R.H. MAP No: 22  
 DATE: Aug. 1972 N.T.S. 92L 29



**4425 M28**

Department of  
Mines and Geology Resources  
ASSESSMENT REPORT  
NO. **4425** MAP # **28**

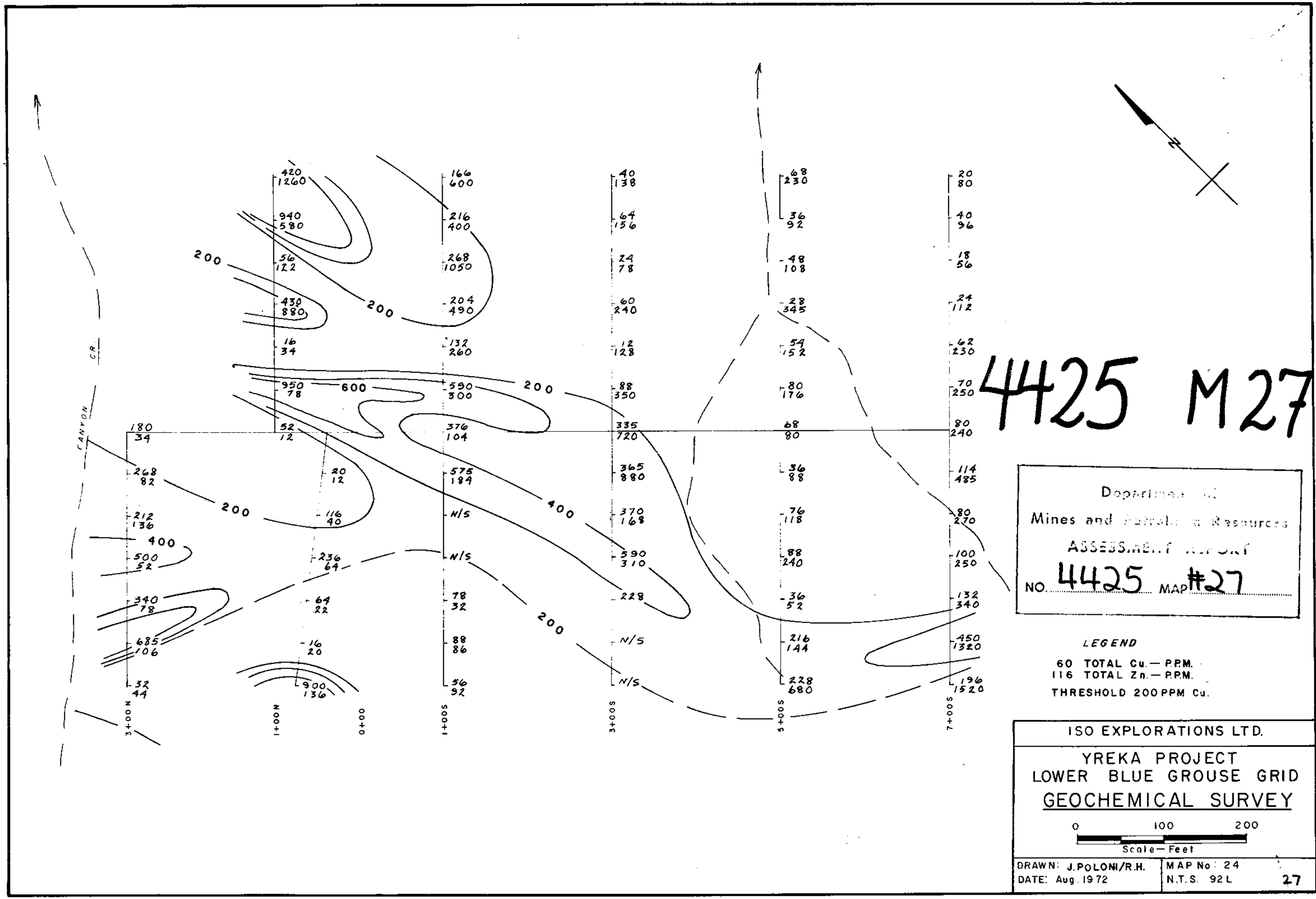
NOTE: ALL READINGS ARE NEGATIVE

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
LOWER BLUE GROUSE GRID  
SELF-POTENTIAL SURVEY

0 100 200  
Scale - Feet

DRAWN: R. CROSSLEY/R.H. MAP No: 21  
DATE: Aug. 1972 N.T.S. 92 L **28**





4425 M27

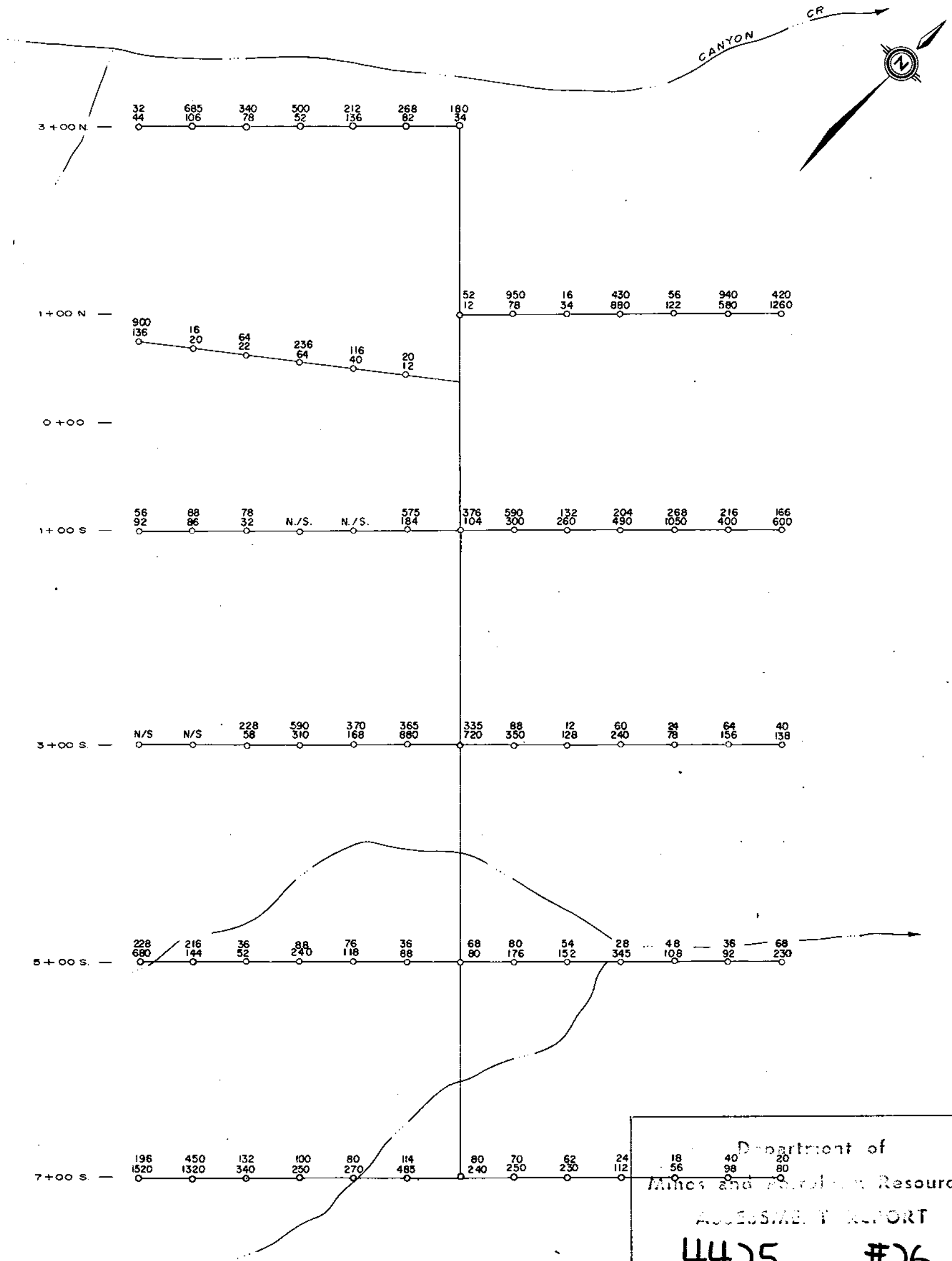
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #27

LEGEND  
60 TOTAL Cu.—PPM.  
116 TOTAL Zn.—PPM.  
THRESHOLD 200PPM Cu.

ISO EXPLORATIONS LTD.  
YREKA PROJECT  
LOWER BLUE GROUSE GRID  
GEOCHEMICAL SURVEY

0 100 200  
Scale—Feet

DRAWN: J.POLONI/R.H. MAP No: 24  
DATE: Aug. 1972 N.T.S. 92L 27



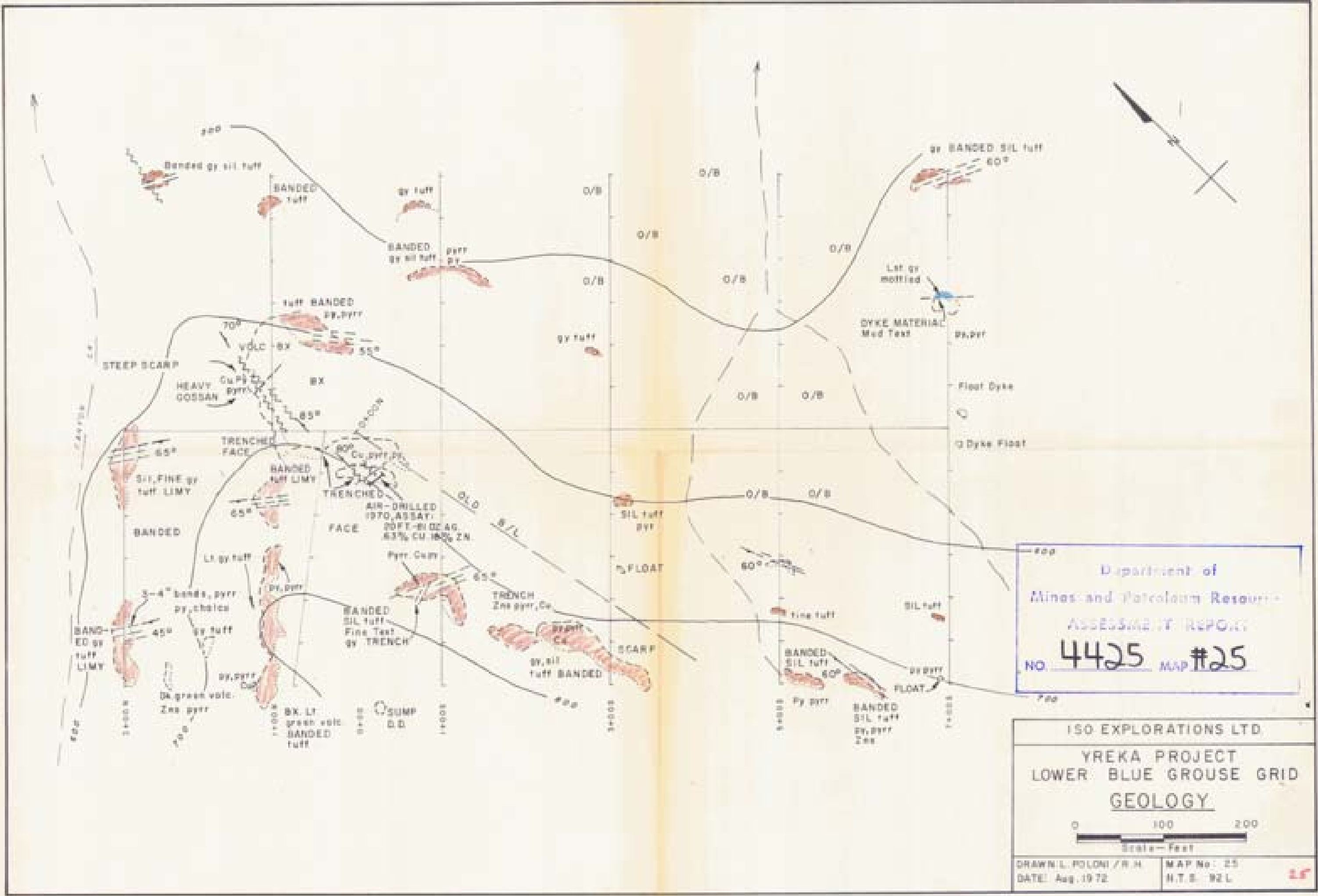
**LEGEND**

Total Cu. in ppm.  
Total Zn. in ppm.

Department of  
Mineral and Petroleum Resources  
ACCESSIBLE REPORT  
NO. 4425 MAP #26

FIG. 3

ISO EXPLORATIONS LTD.	
YREKA LOWER BLUE GROUSE GRID GEOCHEMISTRY	
JOHN R. POLONI B.Sc., P. Eng.	
SCALE 1" = 100'	JULY 18, 1972 26



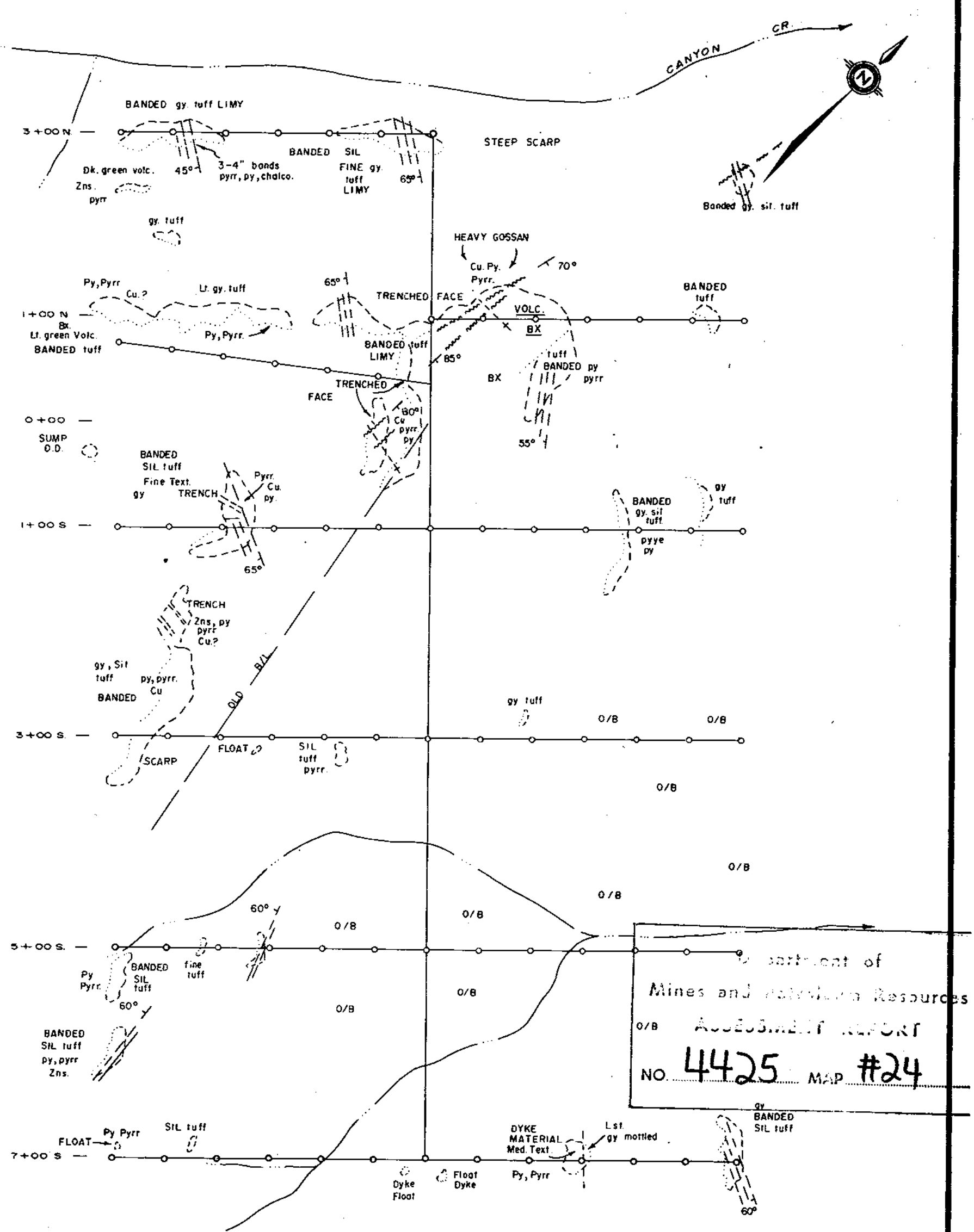
Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT  
 NO. **4425** MAP #25

ISO EXPLORATIONS LTD  
 YREKA PROJECT  
 LOWER BLUE GROUSE GRID  
 GEOLOGY

0 100 200  
 Scale - Feet

DRAWN: L. POLONI / R.H.  
 DATE: Aug. 1972

MAP No: 25  
 H.T.S. 92L



Department of  
 Mines and Technical Resources  
 O/B ASSESSMENT REPORT  
 NO. 4425 MAP #24

FIG. 1

ISO EXPLORATIONS LTD.	
YREKA LOWER BLUE GROUSE GRID GEOLOGY	
JOHN R. POLONI B.Sc., P. Eng.	
SCALE: 1" = 100'	JULY 18, 1972 24

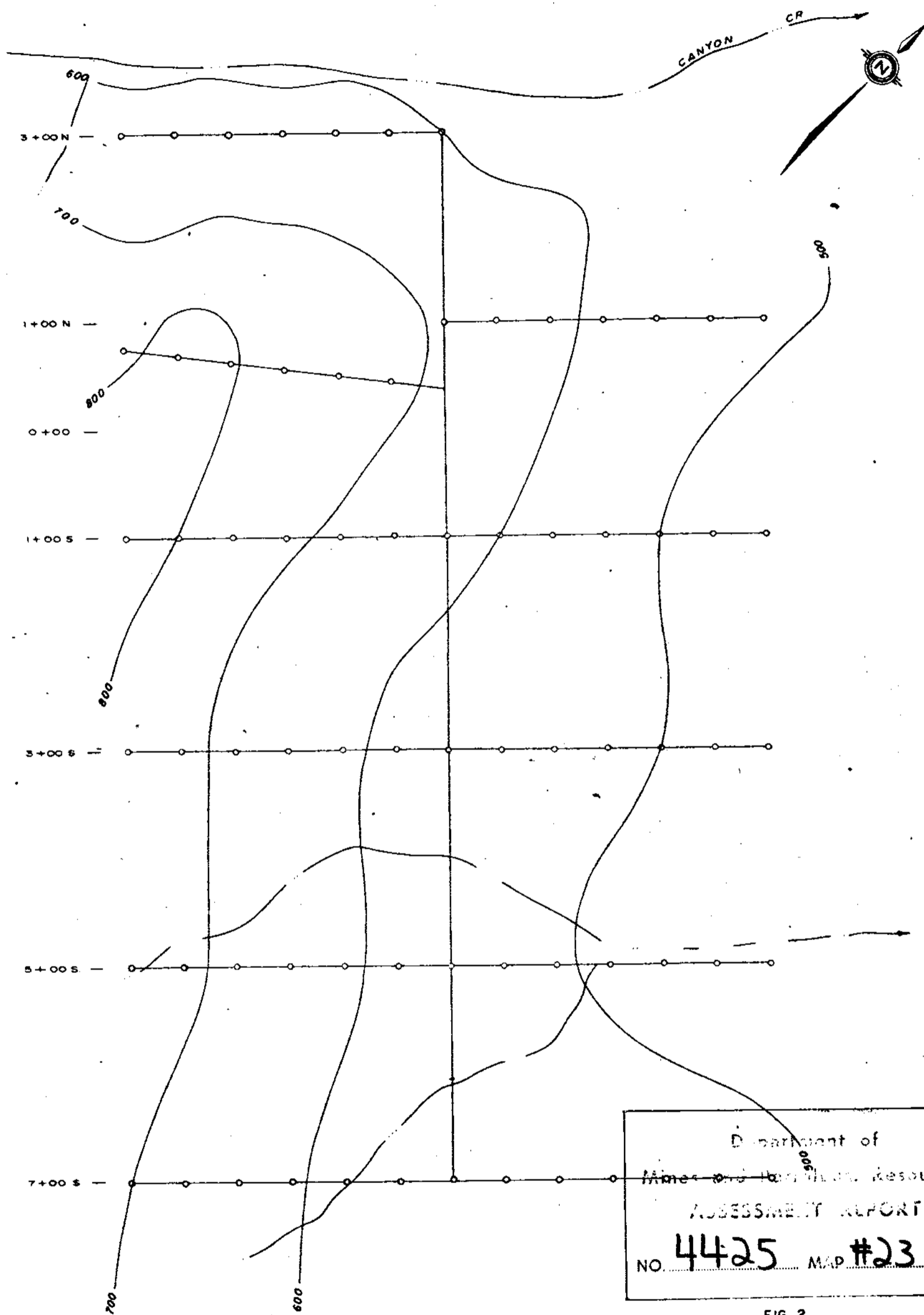
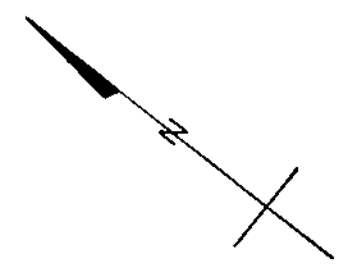
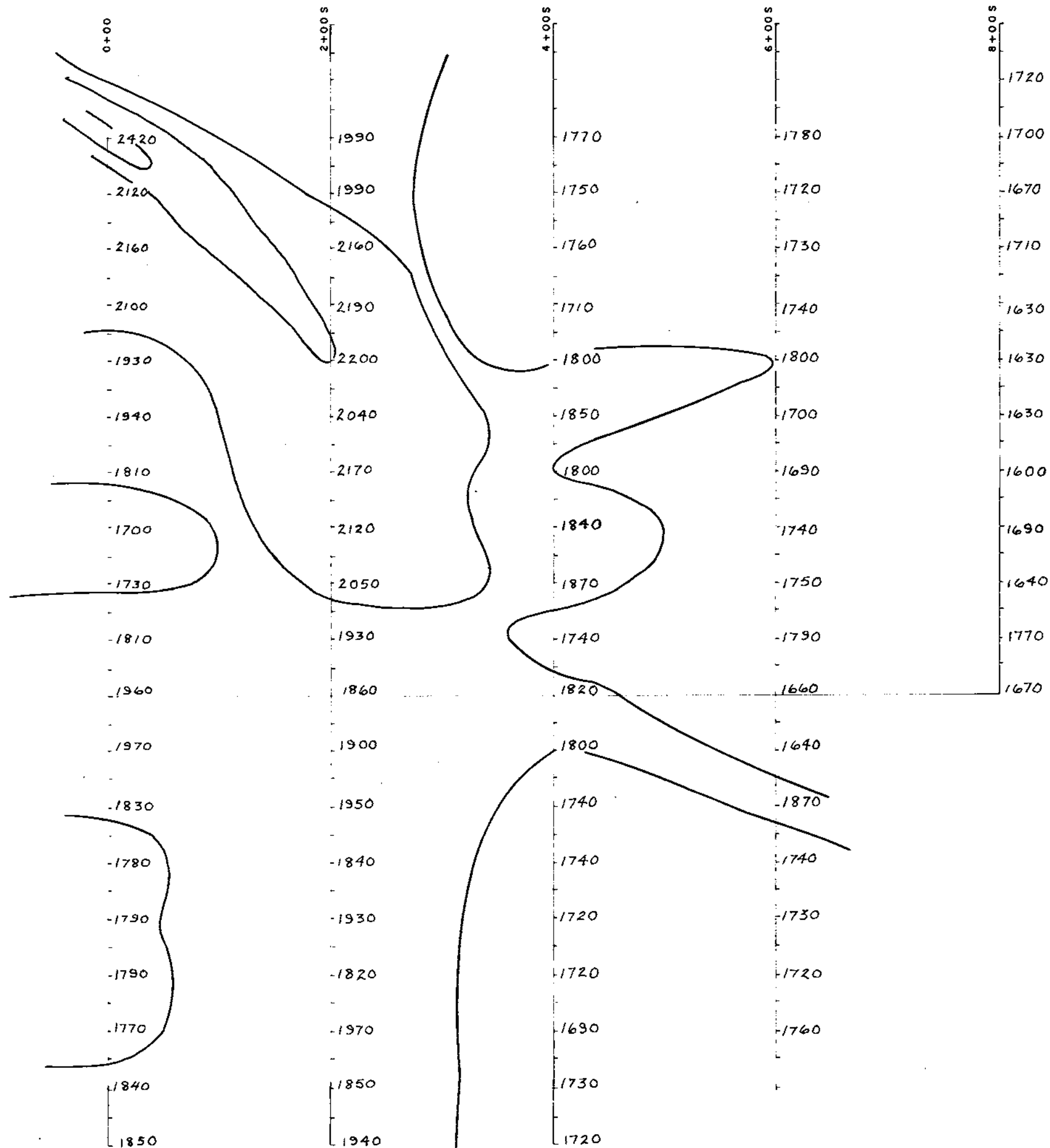


FIG. 2

ISO EXPLORATIONS LTD.	
YREKA LOWER BLUE GROUSE GRID TOPOGRAPHY	
JOHN R. POLONI B.Sc., P. Eng.	
SCALE 1" = 100'	JULY 18, 1972 23





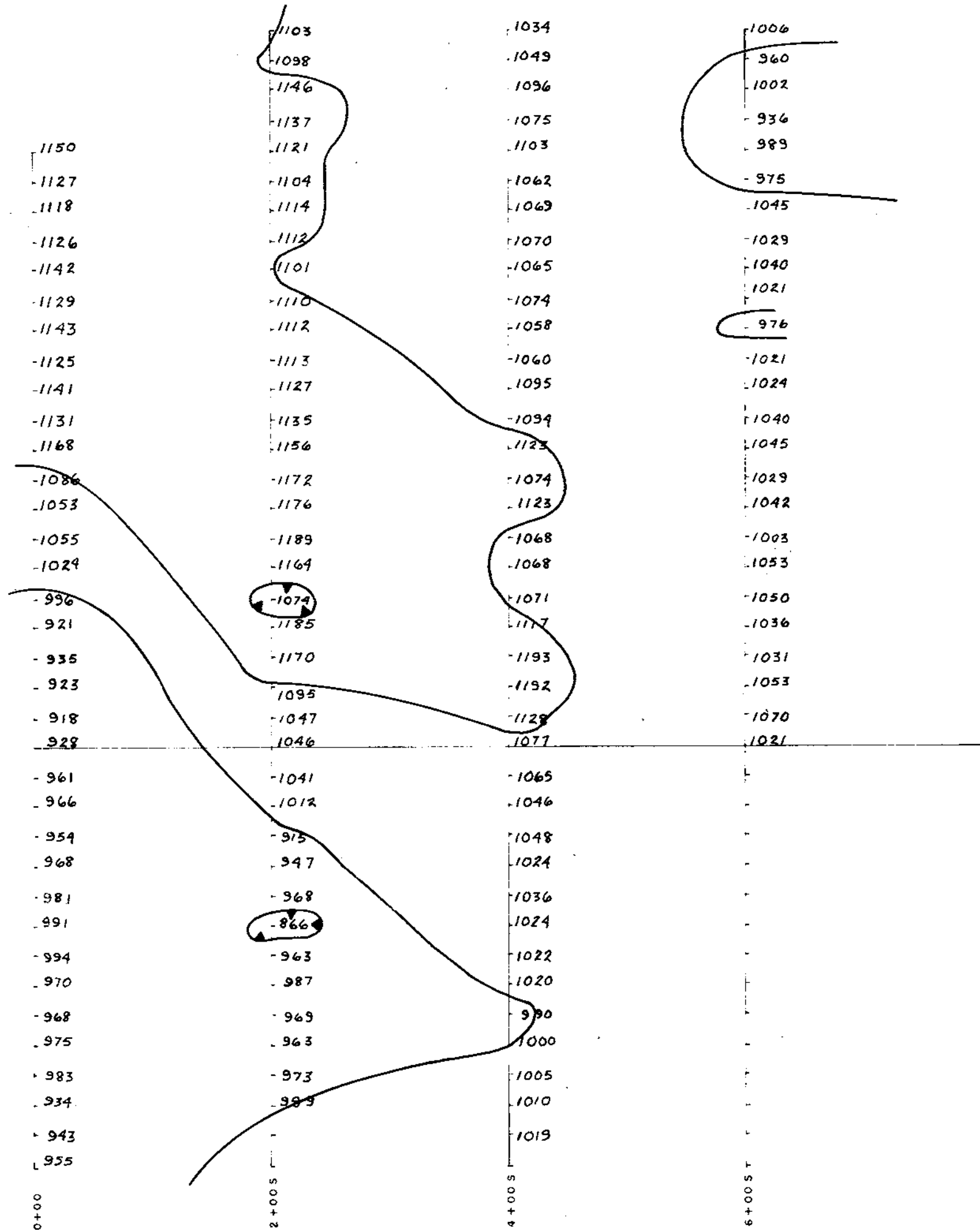
Department of  
 Mines and Technical Resources  
 Assessment Branch  
 NO. 4425 MAP #21

ISO EXPLORATIONS LTD.

YREKA PROJECT  
 UPPER BLUE GROUSE GRID  
 MAGNETOMETER SURVEY

0 100 200  
 Scale - Feet

DRAWN: R. CROSSLEY/R.H. MAP No: 14  
 DATE: Aug 1972 N.T.S. 92L 21



Department of  
Mines and Geotechnical Resources  
Assessment Unit  
NO. 4425 #20

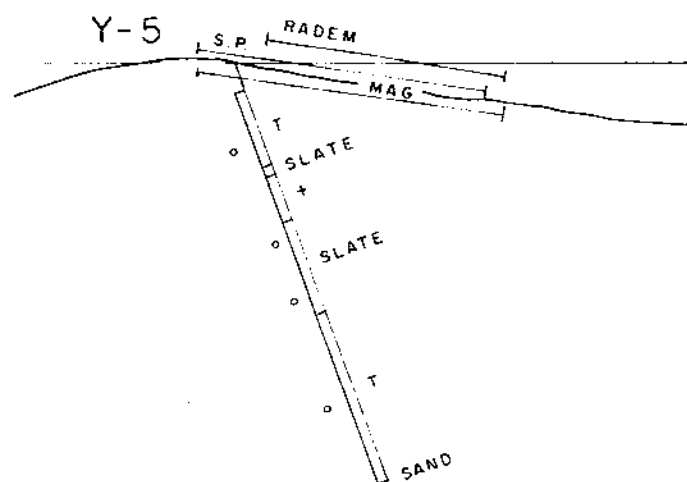
ISO EXPLORATIONS LTD.  
YREKA PROJECT  
UPPER BLUE GROUSE GRID  
SELF-POTENTIAL SURVEY

0 100 200  
Scale - Feet

DRAWN: R. CROSSLEY/R.H. MAP No: 13  
DATE: Aug 1972 N.T.S. 92L

20





N 66° E

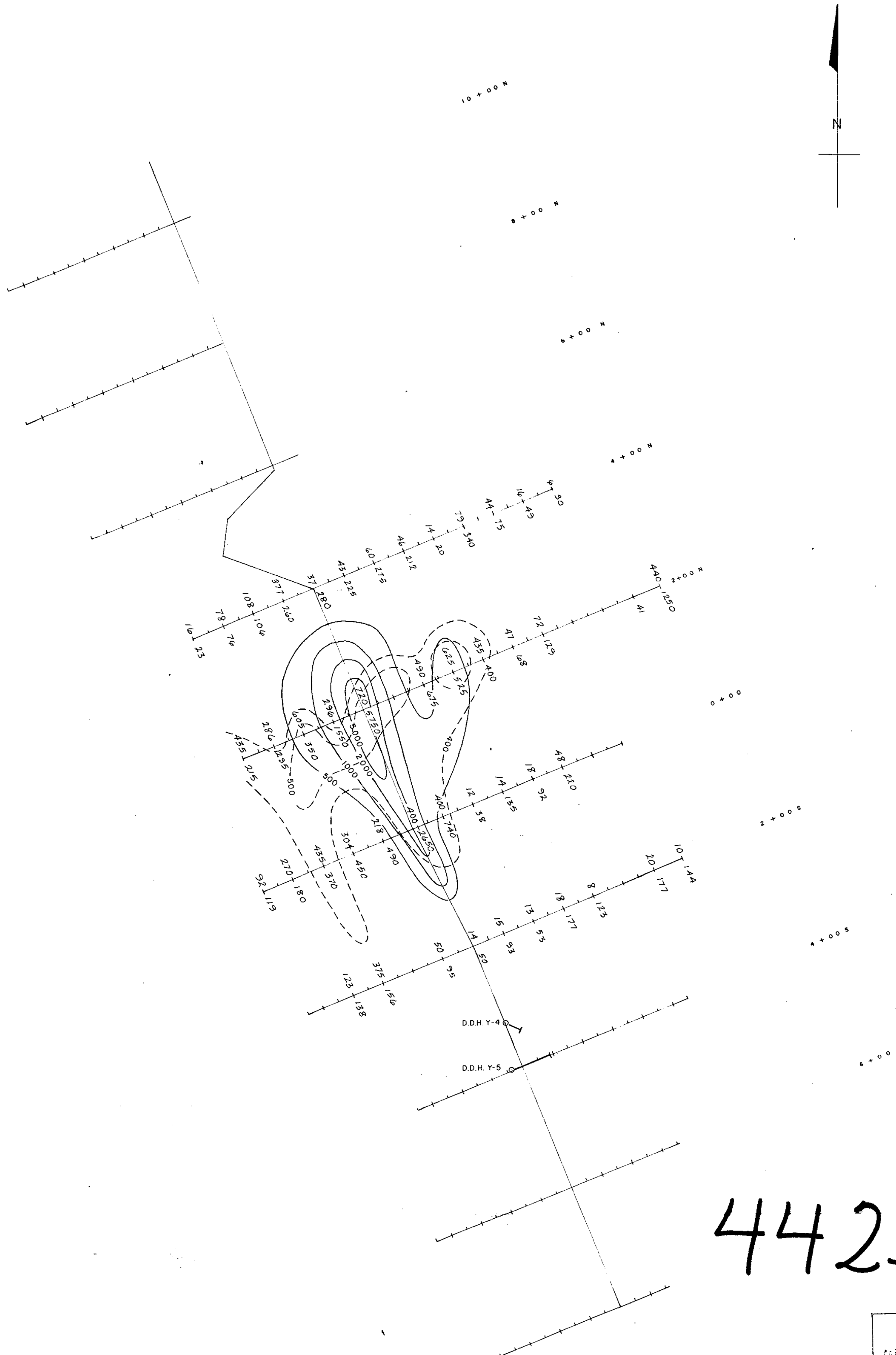
Department of  
 Mines and Technical Resources  
 Assessment Branch  
 NO. 4425 M.P. #19

SEE LEGEND - MAP No. 39

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 NORTH ARM GRID  
 SECT. D.D.H. Y-5

0 50 100  
 Scale - Feet

DRAWN: R. CROSSLEY/O.C. MAP No.: 41  
 DATE: Oct. 1972 N.T.S. 92 L



4425 M18

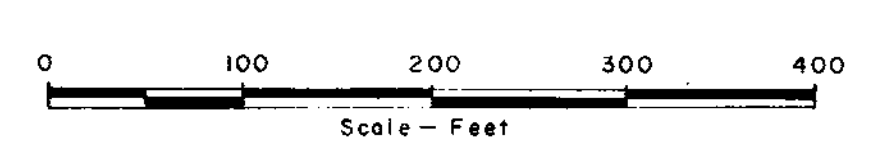
Department of  
Mines and Geothermal Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #18

ISO EXPLORATIONS LTD.

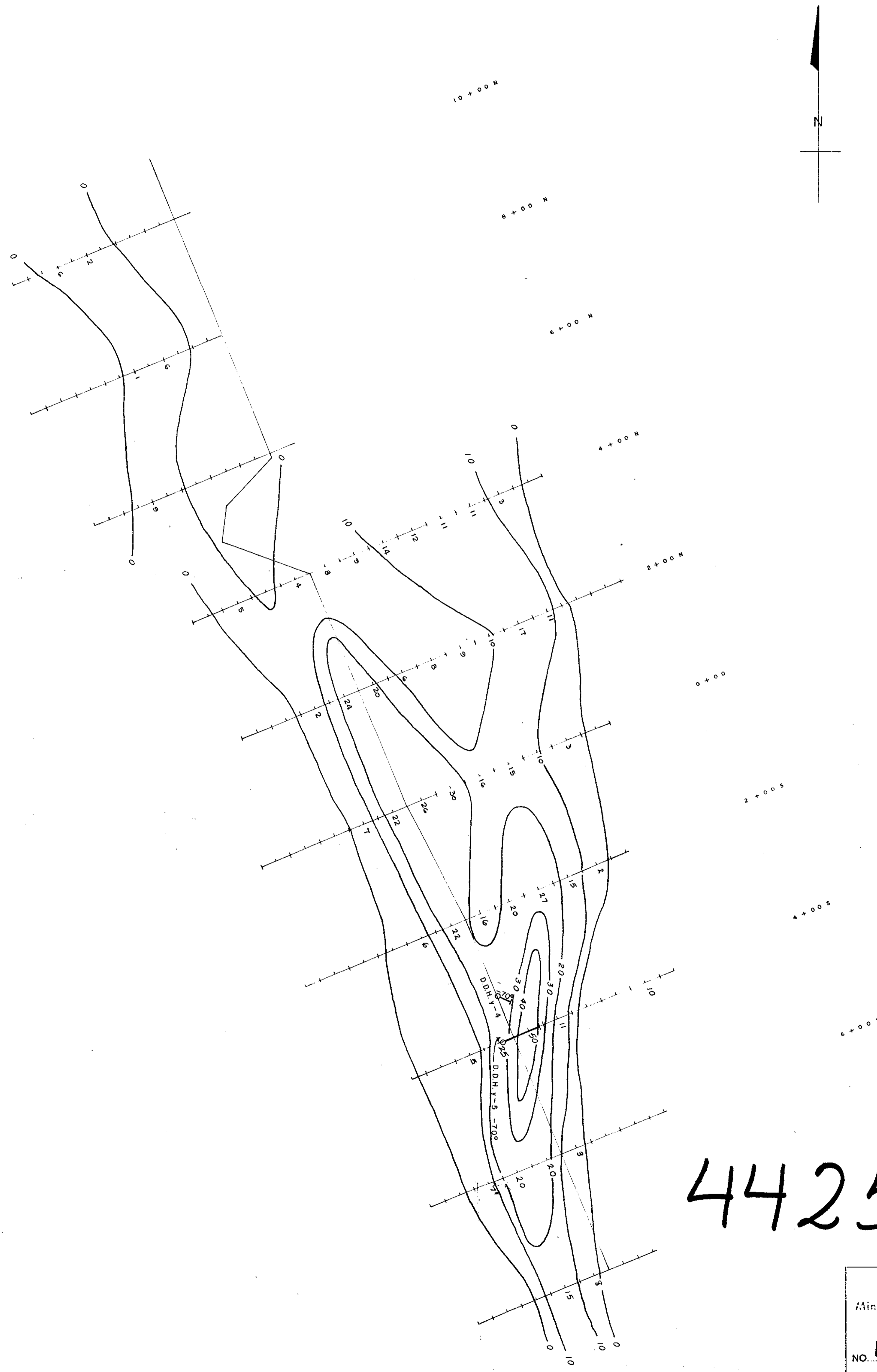
YREKA PROJECT  
NORTH ARM GRID

**GEOCHEMICAL SURVEY**

LEGEND  
--- PPM ZINC | PPM COPPER ---



DRAWN: R. CROSSLEY/R.H. DATE: AUG. 1972	REVISED: DATE:	MAP No: 12 NTS. 92/L	18
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4425 M17

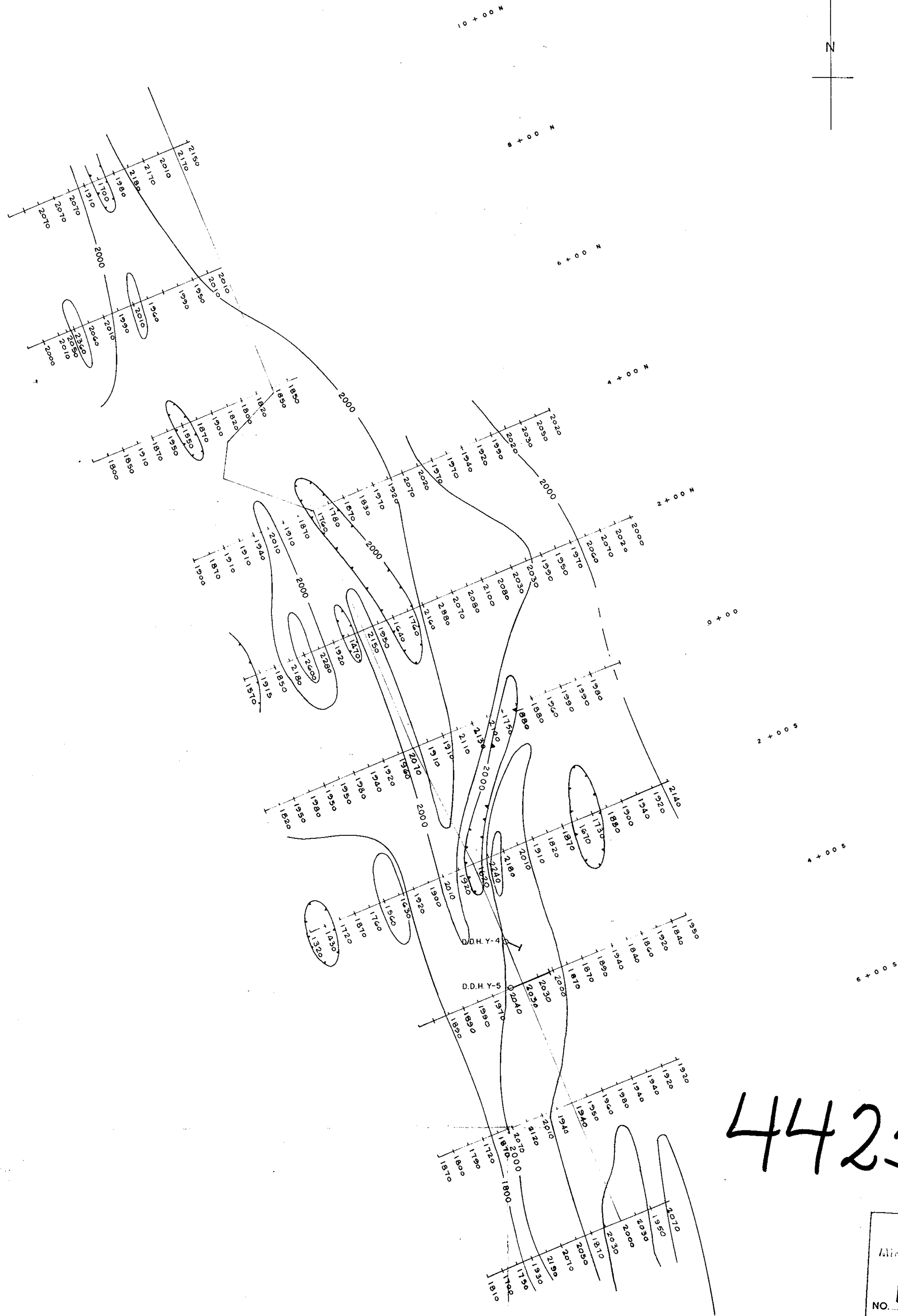
Department of  
Mines and Technical Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #17

ISO EXPLORATIONS LTD.

YREKA PROJECT  
NORTH ARM GRID  
VLF ELECTROMAGNETIC SURVEY

0 100 200 300 400  
Scale - Feet

DRAWN: R. CROSSLEY/O.C. DATE: AUG. 1972	REVISED: DATE:	MAP No. 11 NTS. 92/L	17
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4425 M16

Department of  
 Mines and Technical Surveys  
 Geological Report  
 NO. 4425 MAP #16

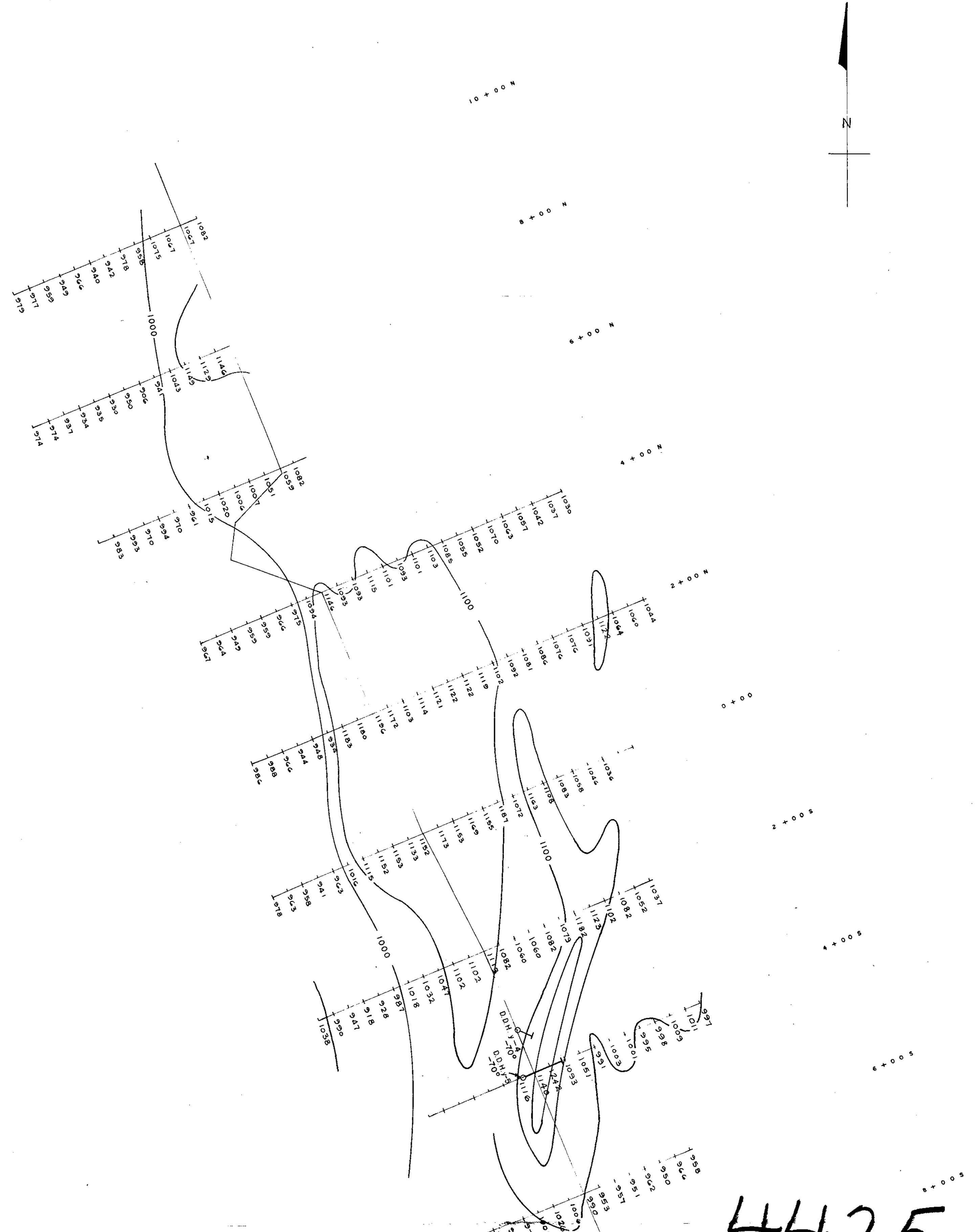
ISO EXPLORATIONS LTD.

YREKA PROJECT  
 NORTH ARM GRID

MAGNETOMETER SURVEY



DRAWN: R. CROSSLEY / O.C.	REVISED: DATE	MAP No. 10 NTS. 92/L	16
DATE: AUG. 1972			



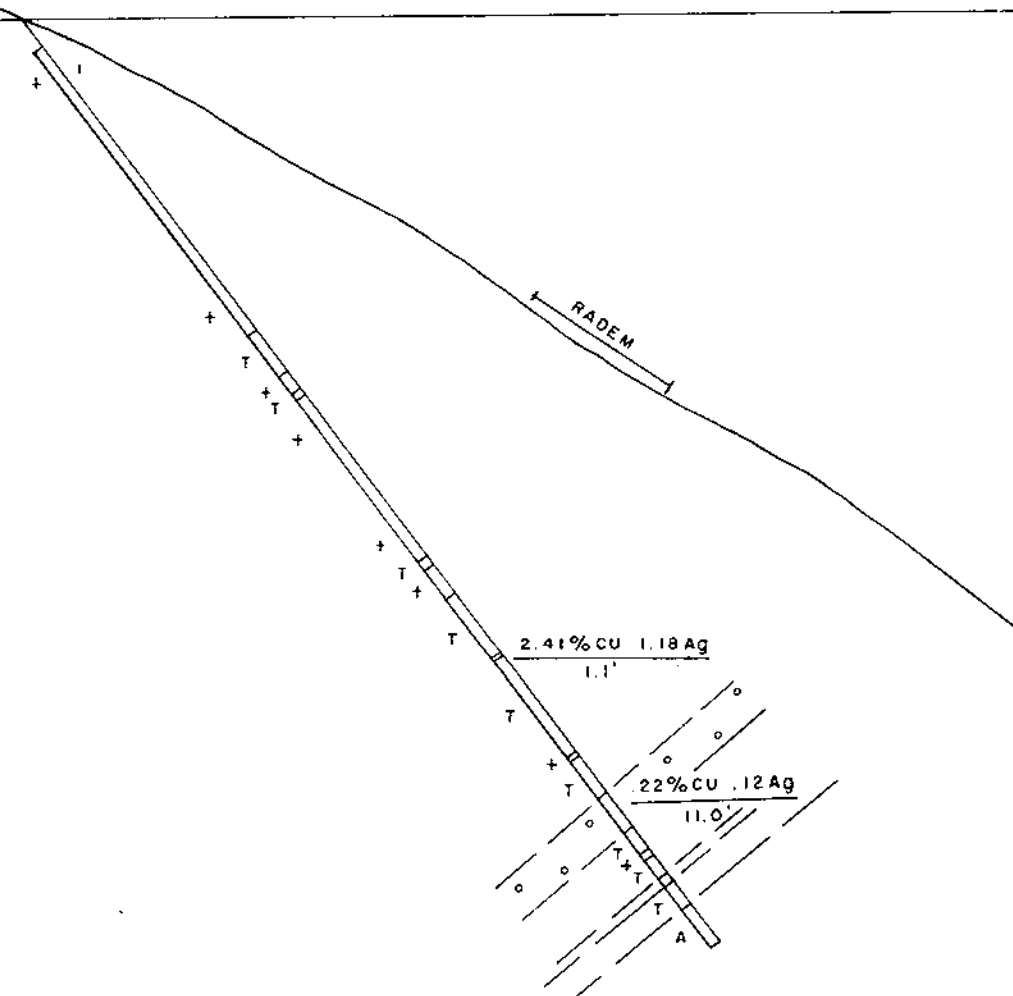
4425 M15

Department of  
 Mines and Technical Surveys  
 INVESTIGATION REPORT  
 NO. 4425 MAP #15

ISO EXPLORATIONS LTD.		
YREKA PROJECT NORTH ARM GRID		
<b>SELF-POTENTIAL SURVEY</b>		
DRAWN: R. CROSSLEY / O.C. DATE: AUG. 1972	REVISED: DATE:	MAP No. 9 N.T.S. 92/L

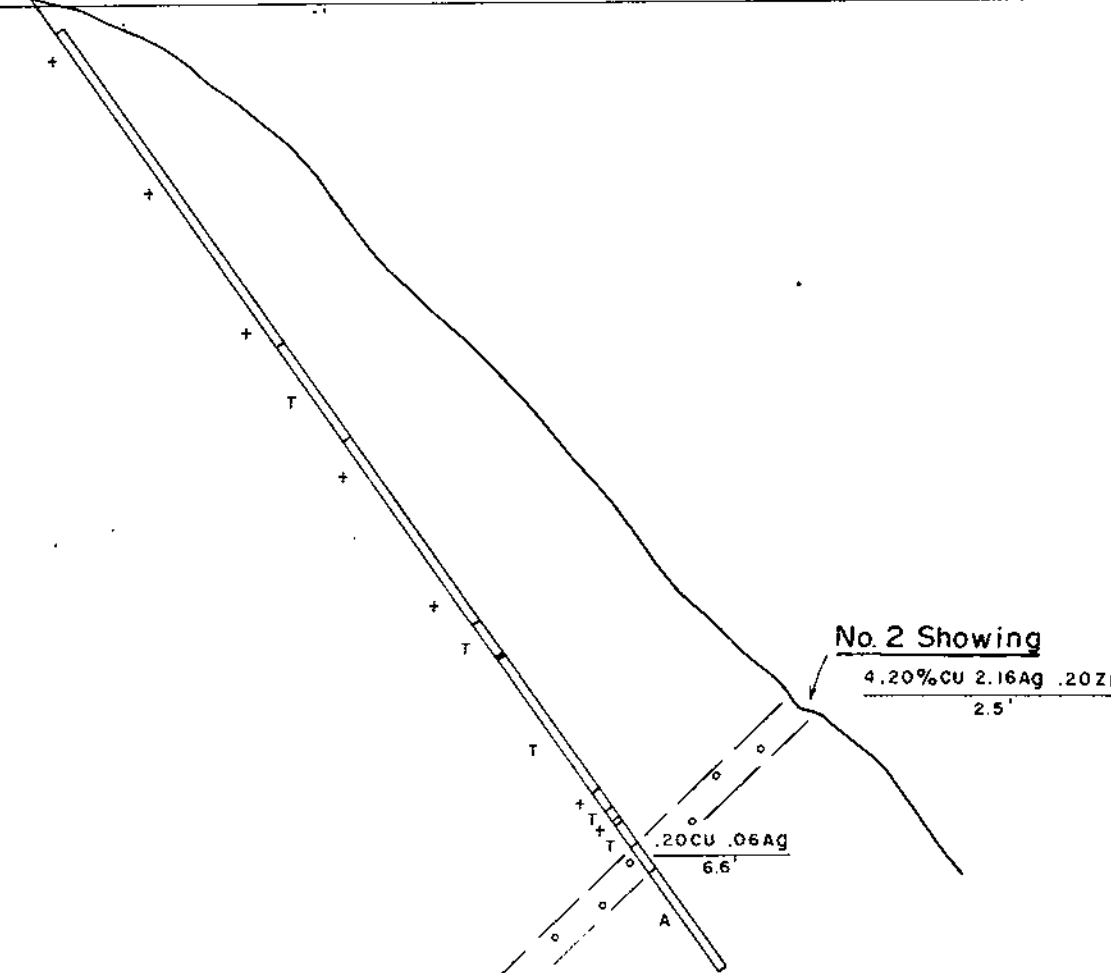
Y-2

N 36 E



Y-3

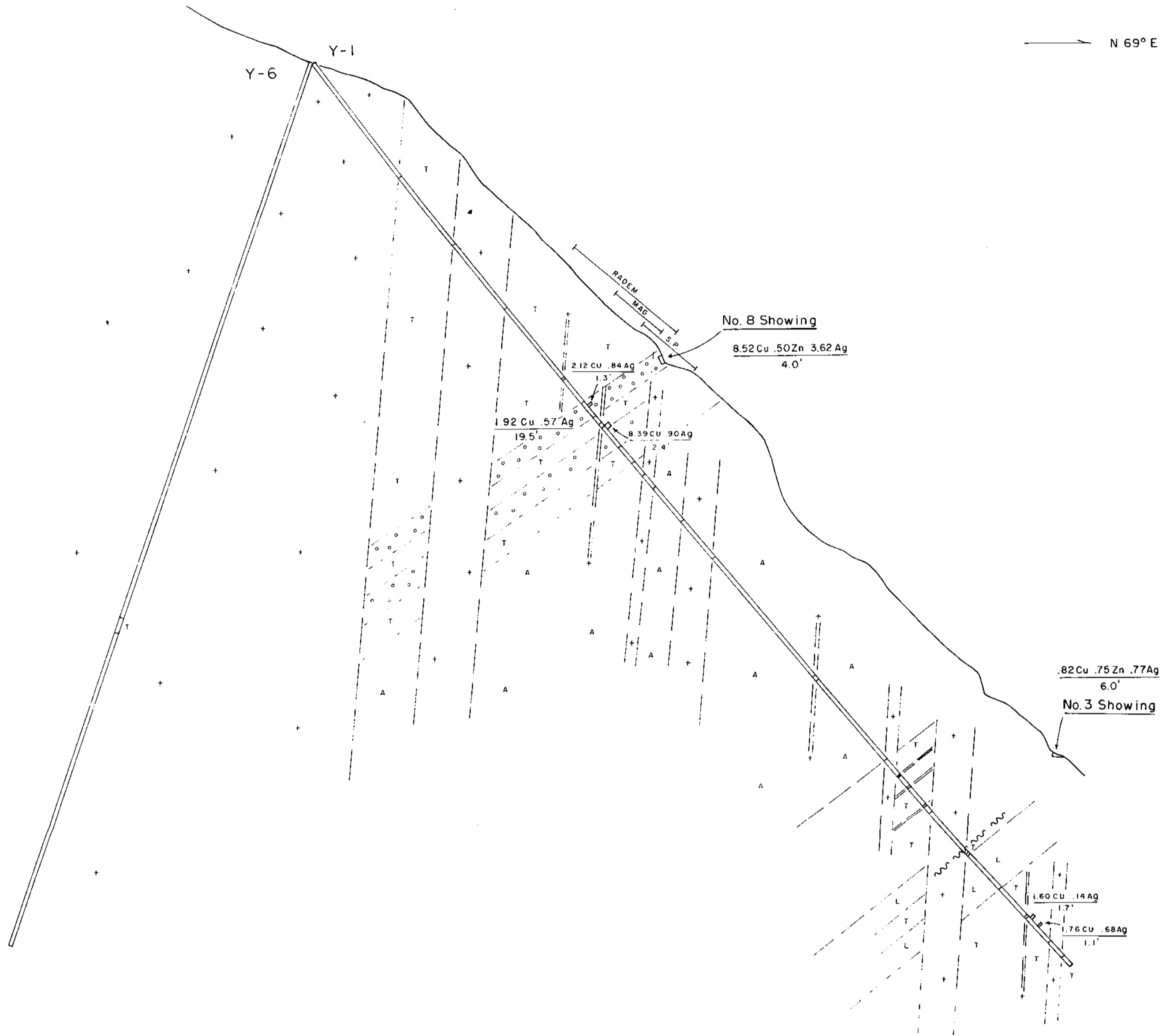
N 72° E



MINERAL RESOURCES  
 REPORT  
 NO. **4425** MAP #14

SEE LEGEND - MAP No. 39

ISO EXPLORATIONS LTD.	
YREKA PROJECT COMSTOCK - EDISON GRIDS	
SECT. D.D.H. Y-2, Y3	
<p>Scale - Feet</p>	
DRAWN: R. CROSSLEY/O.C.	MAP No.: 40
DATE: Oct. 1972	NTS. 92 L



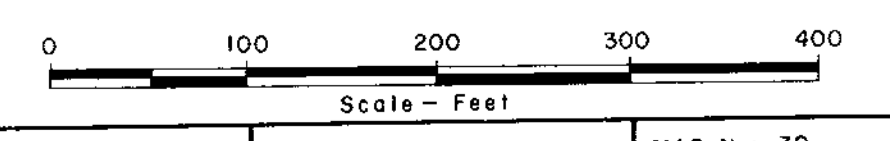
4425 M13

- SULPHIDES
- PORPHYRY DIKE
- TUFFS
- LIMESTONE & TUFF
- ANDESITE

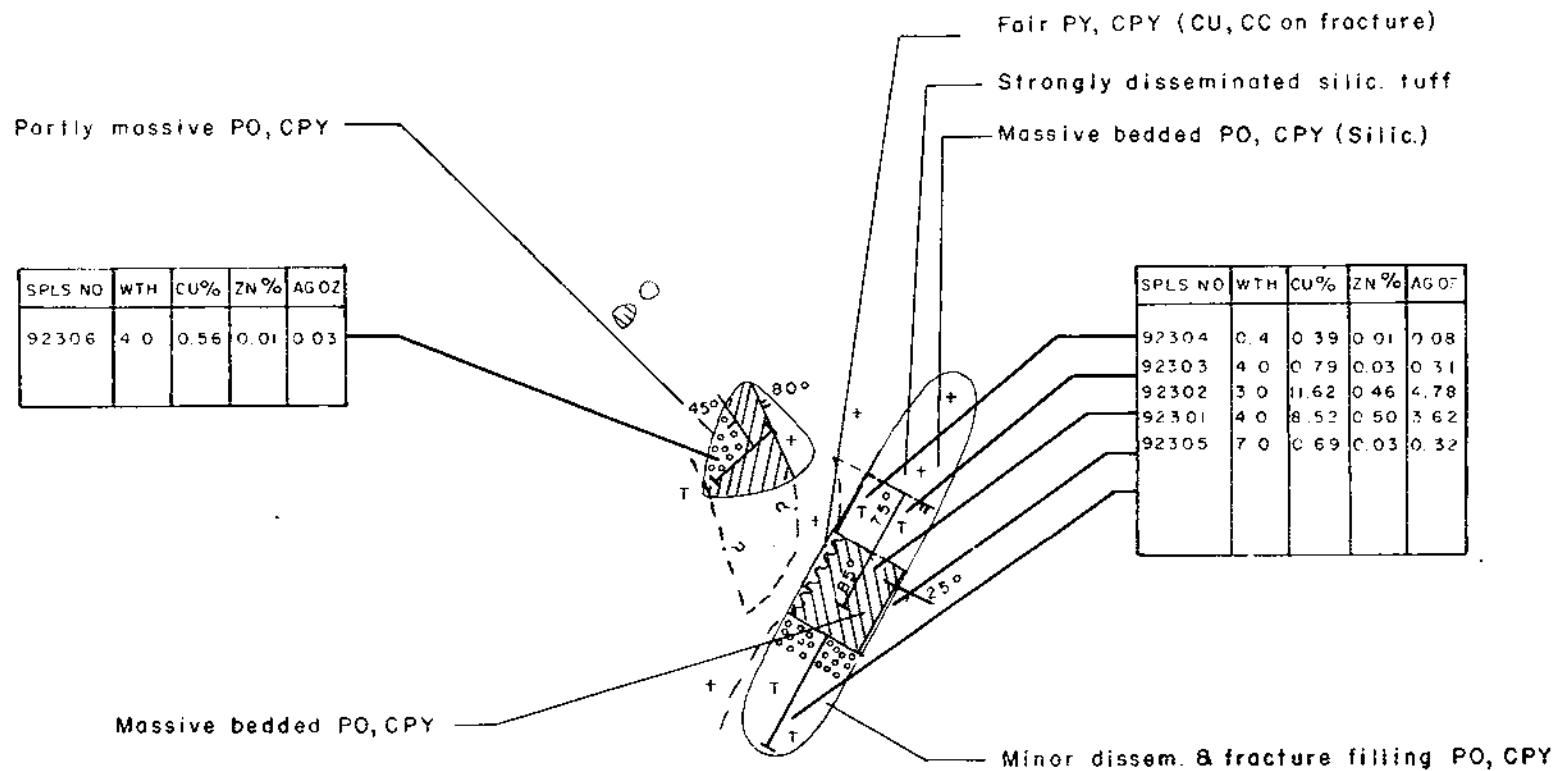
Department of  
Mines and Geotechnical Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #13

ISO EXPLORATIONS LTD.

YREKA PROJECT  
EDISON - COMSTOCK GRIDS  
SECT. D.D.H. Y-1, Y-6



DRAWN: R.CROSSLEY / O.C.	REVISED:	MAP No: 39	13
DATE: OCT. 1972	DATE:	N.T.S. 92/L	



**LEGEND**

- + Feisite dike
- T Cherty tuff
- Attitude dike
- Attitude bedding
- Shear surface
- Disseminated sulphides
- Massive sulphides
- Assayed length
- Assumed contact
- PO Pyrrhotite
- CPY Chalcopyrite
- CC Chalcocite

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. **4425** MAP #12

**ISO EXPLORATIONS LTD.**

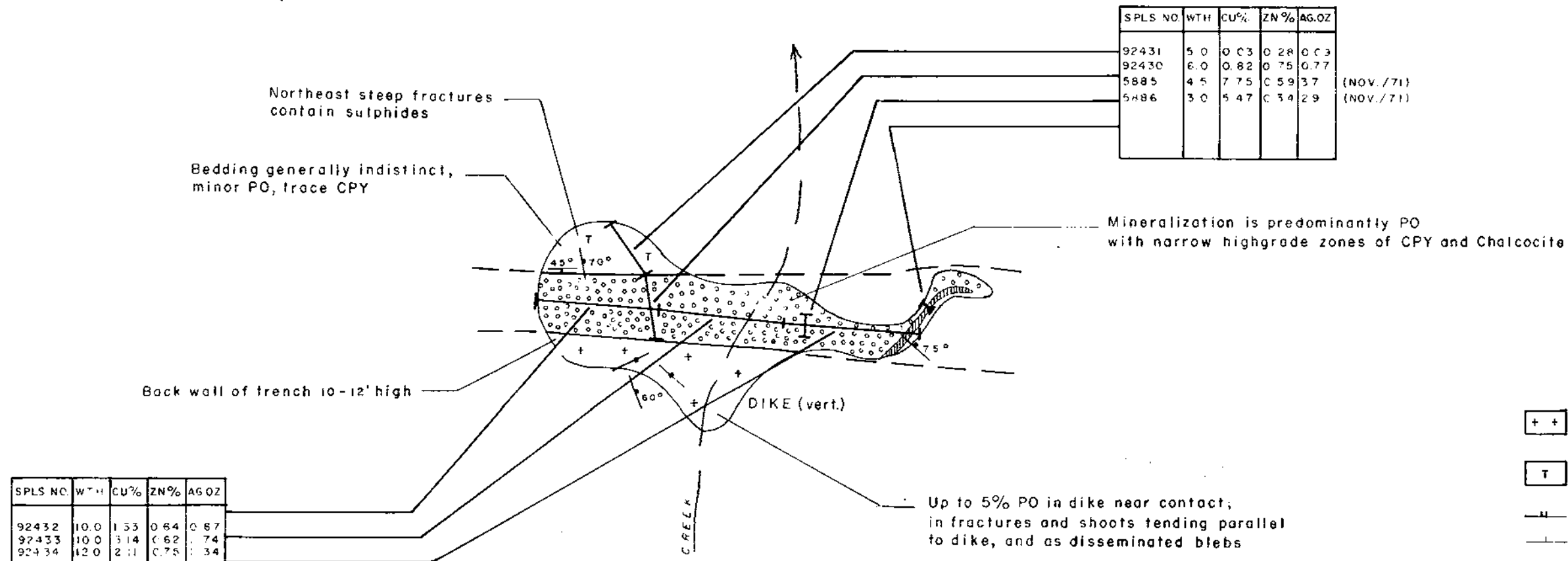
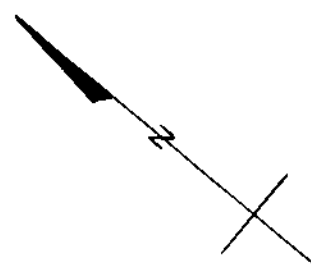
**YREKA PROJECT**  
EDISON MC., SHOWING NO. 8  
GEOLOGY SKETCH

0      10      20  
Scale - Feet

DRAWN: R CROSSLEY/R.H	MAP No. 38
DATE JUNE 14, 1972	NTS 92L

12





SPLS NO.	WTH	CU%	ZN%	AG.OZ
92431	5.0	0.03	0.28	0.03
92430	6.0	0.82	0.75	0.77
5885	4.5	7.75	0.59	3.7
5486	3.0	5.47	0.34	2.9

(NOV./71)  
(NOV./71)

SPLS NO.	WTH	CU%	ZN%	AG.OZ
92432	10.0	1.33	0.64	0.67
92433	10.0	3.14	0.62	0.74
92434	12.0	2.11	0.75	0.34

**LEGEND**

- + + Felsite dike
- T Cherty tuff
- Attitude dike
- Attitude bedding
- Shear surface
- Disseminated sulphides
- Massive sulphides
- Assared length
- Vert joint
- Dipping joint
- PO Pyrrhotite
- CPY Chalcopyrite

Department of  
Mines and Geotechnical Resources  
ANNUAL REPORT  
NO. 4425 MAP #11

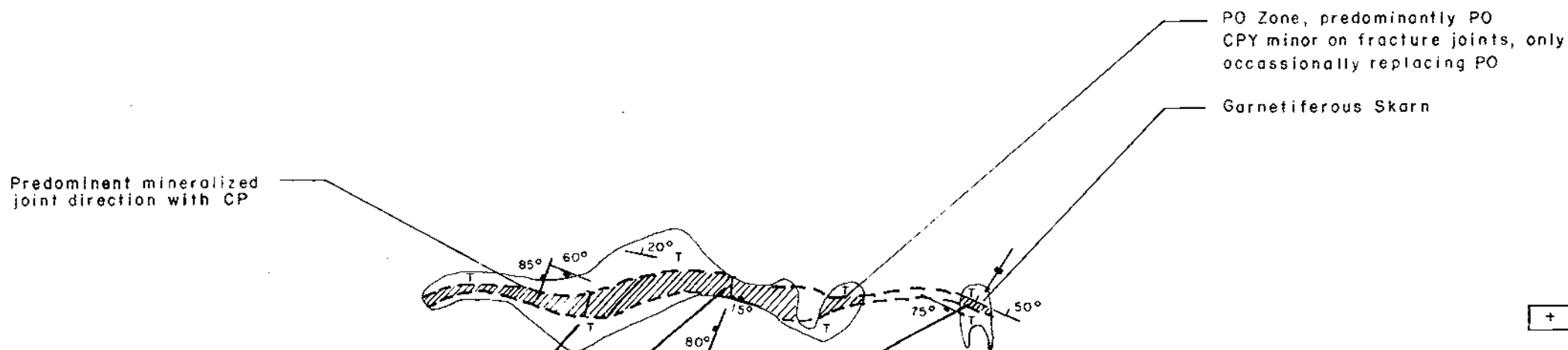
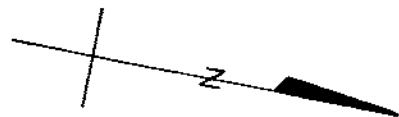
**ISQ EXPLORATIONS LTD.**

**YREKA PROJECT**  
EDISON MC, SHOWING NO. 3

**GEOLOGY SKETCH**

0                      10                      20  
Scale - Feet

DRAWN F CROSSLEY/RH DATE, AUG 1972	MAP No. 37 N T S 92L
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SPLS	WTH	CU%	ZN%	AG. OZ
92426	50	35	0.08	0.63
92427	0.30	4.20	0.20	2.15
92428	0.08	0.31	0.01	0.18

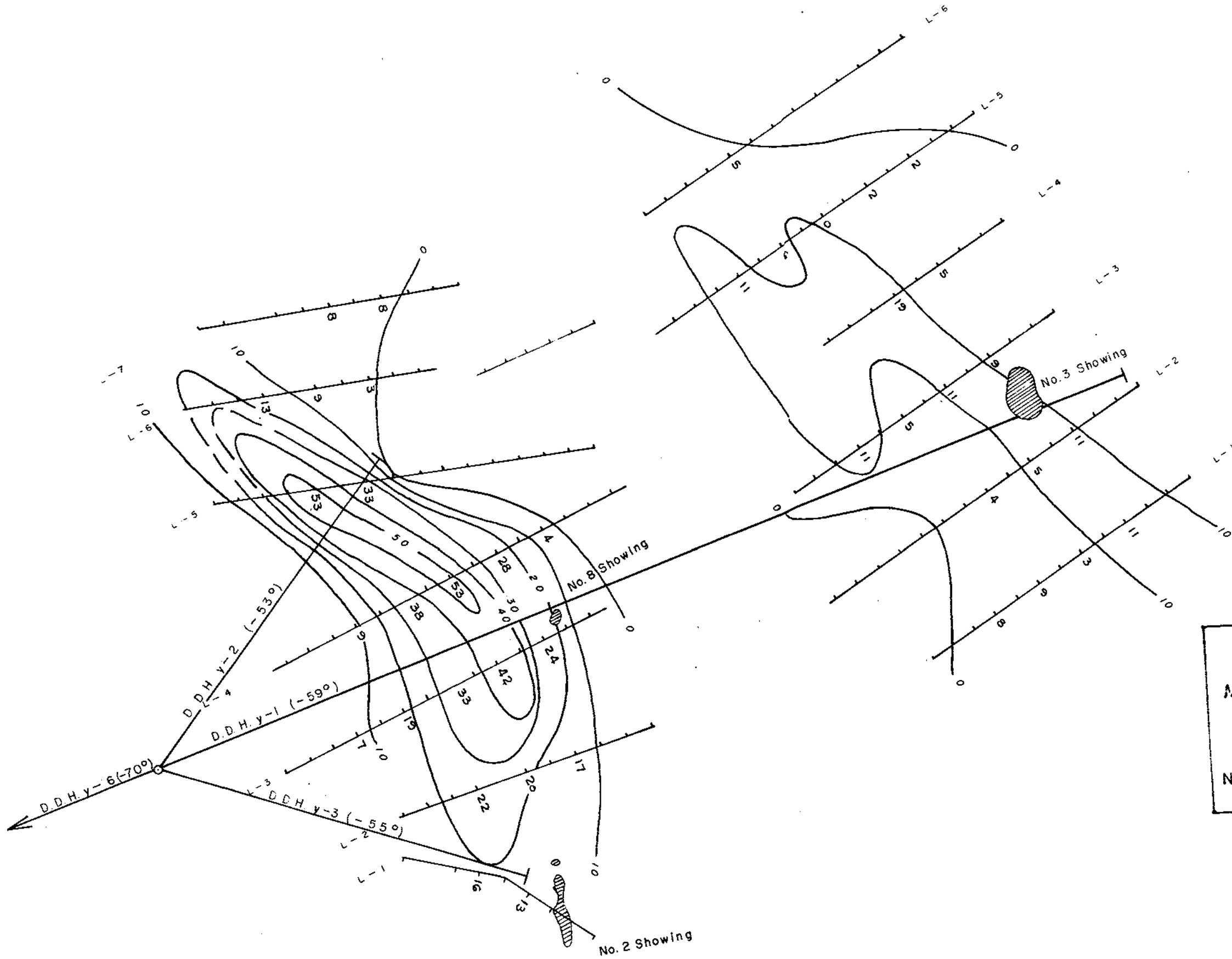
Department of  
 Mines and Technical Surveys  
 Geological Survey of Canada  
 NO. 4425 I.S.P. #10

- LEGEND**
- + Felsite dike
  - T Cherty tuff
  - Attitude dike
  - Attitude bedding
  - ~ Shear surface
  - ⋈ Disseminated sulphides
  - ▨ Massive sulphides
  - Assayed length
  - Vertical joint
  - Dipping joint
  - PO Pyrrhotite
  - CPY Chalcopyrite

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 EDISON MC., SHOWING NO. 2  
 GEOLOGY SKETCH

0 10 20  
 Scale— Feet

DRAWN R. CROSSLEY/R.H. MAP No. 36  
 DATE JUNE 13, 1972 N.T.S. 92L 10

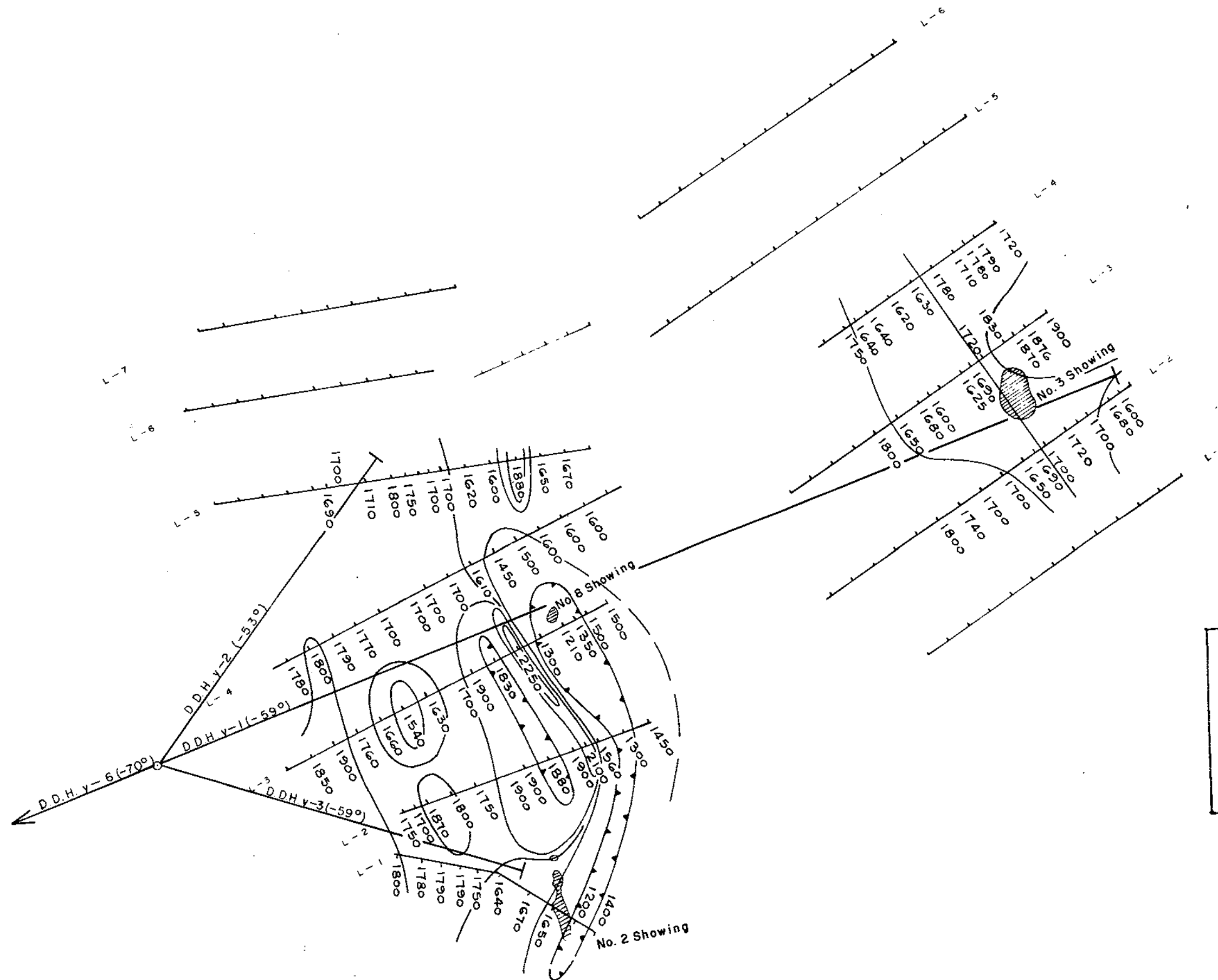


Drawn out of  
 Mines and Geology Resources  
 NO. **4425** MAP **#9**

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 COMSTOCK-EDISON GRIDS  
 V.L.F. ELECTROMAGNETIC SURVEY

0 50 100  
 Scale - Feet

DRAWN: R. CROSSLEY/O.C. MAP No: 4  
 DATE: Aug. 1972 N.T.S. 92L 9

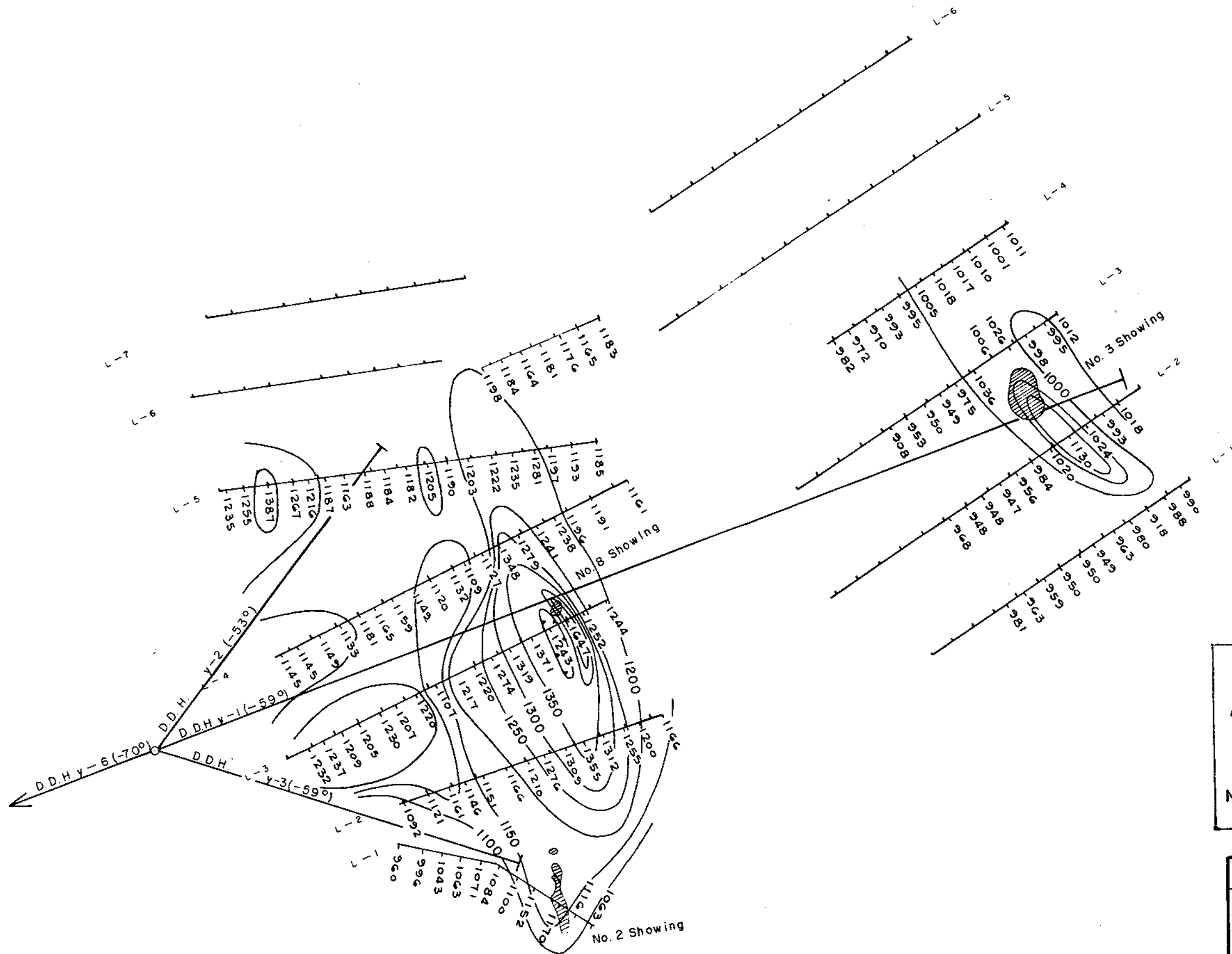


Department of  
 Mines and Geotechnical Resources  
**ASSESSMENT REPORT**  
 NO. **4425** MAP **#8**

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 COMSTOCK-EDISON GRIDS  
**MAGNETOMETER SURVEY**

0 50 100  
 Scale - Feet

DRAWN: R. CROSSLEY/O.C. MAP No: 3  
 DATE: Aug 1972 N.T.S. 92L **8**

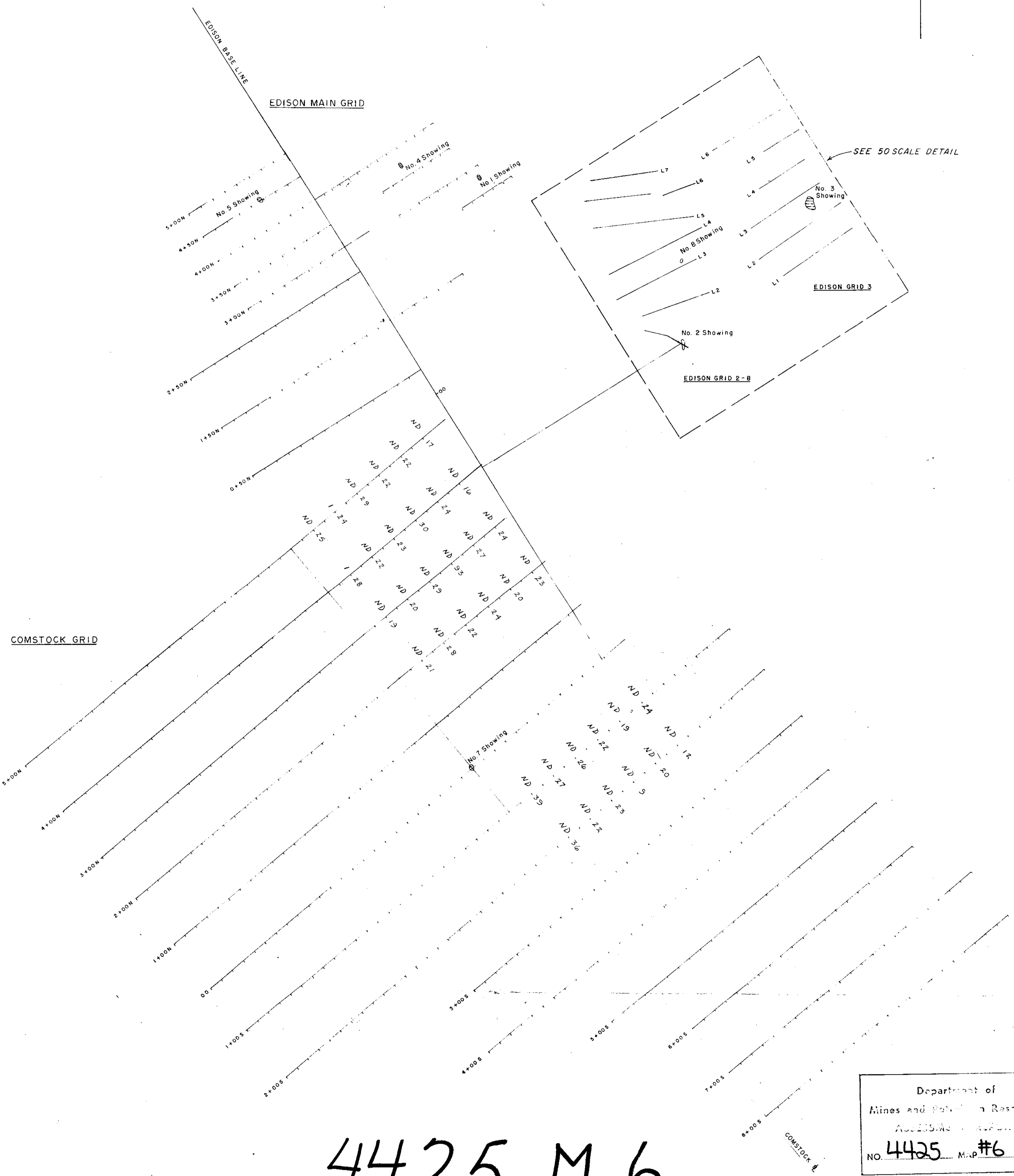
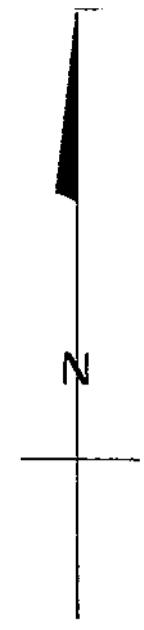


Department of  
 Mines and Geology Resources  
 ASSESSMENT REPORT  
 NO. **4425** MAP #7

ISO EXPLORATIONS LTD.  
 YREKA PROJECT  
 COMSTOCK-EDISON GRIDS  
 SELF-POTENTIAL SURVEY



DRAWN: R. CROSSLEY/O.C. MAP No: 2  
 DATE: Aug. 1972 N.T.S. 92L



4425 M 6

Department of  
Mines and Petroleum Resources  
ADDITIONAL REPORT  
NO. 4425 MAP #6

ISO EXPLORATIONS LTD.

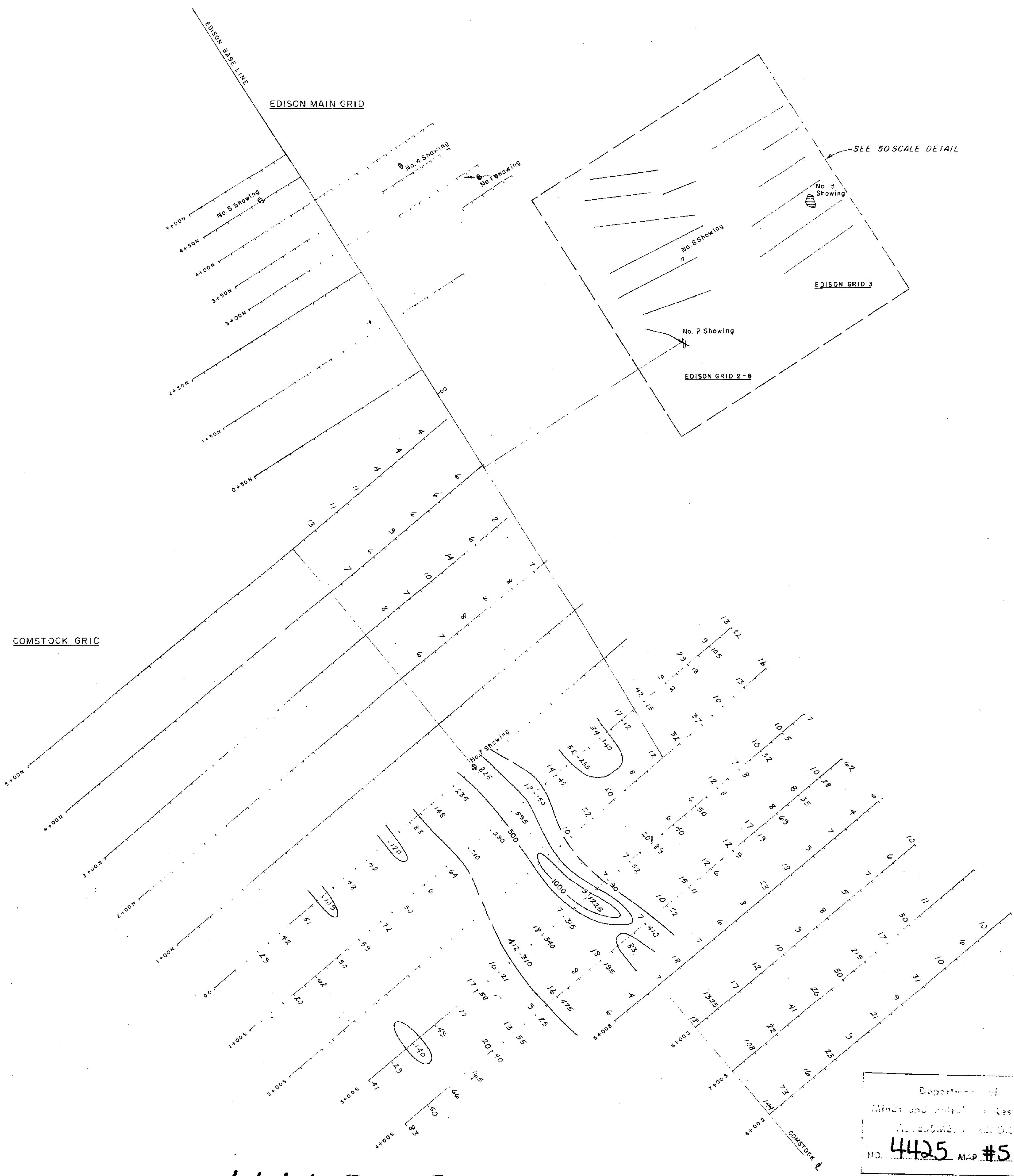
YREKA PROJECT  
EDISON - COMSTOCK GRIDS

**GEOCHEMICAL SURVEY**  
ZINC

0 100 200 300 400  
Scale - Feet

DRAWN: R. CROSSLEY/R.H.	REVISED:	MAP No. 8 B
DATE: AUG. 1972	DATE:	N.T.S. 92/L

LEGEND  
( PPM MO) ND - 22 ( PPM ZINC )



4425 M5

Department of  
 Mines and Geology  
 Geologic Survey  
 No. 4425 MAP #5

**LEGEND**  
 PPM COPPER  
 (SURFACE) 7 60 (SUB SURFACE)

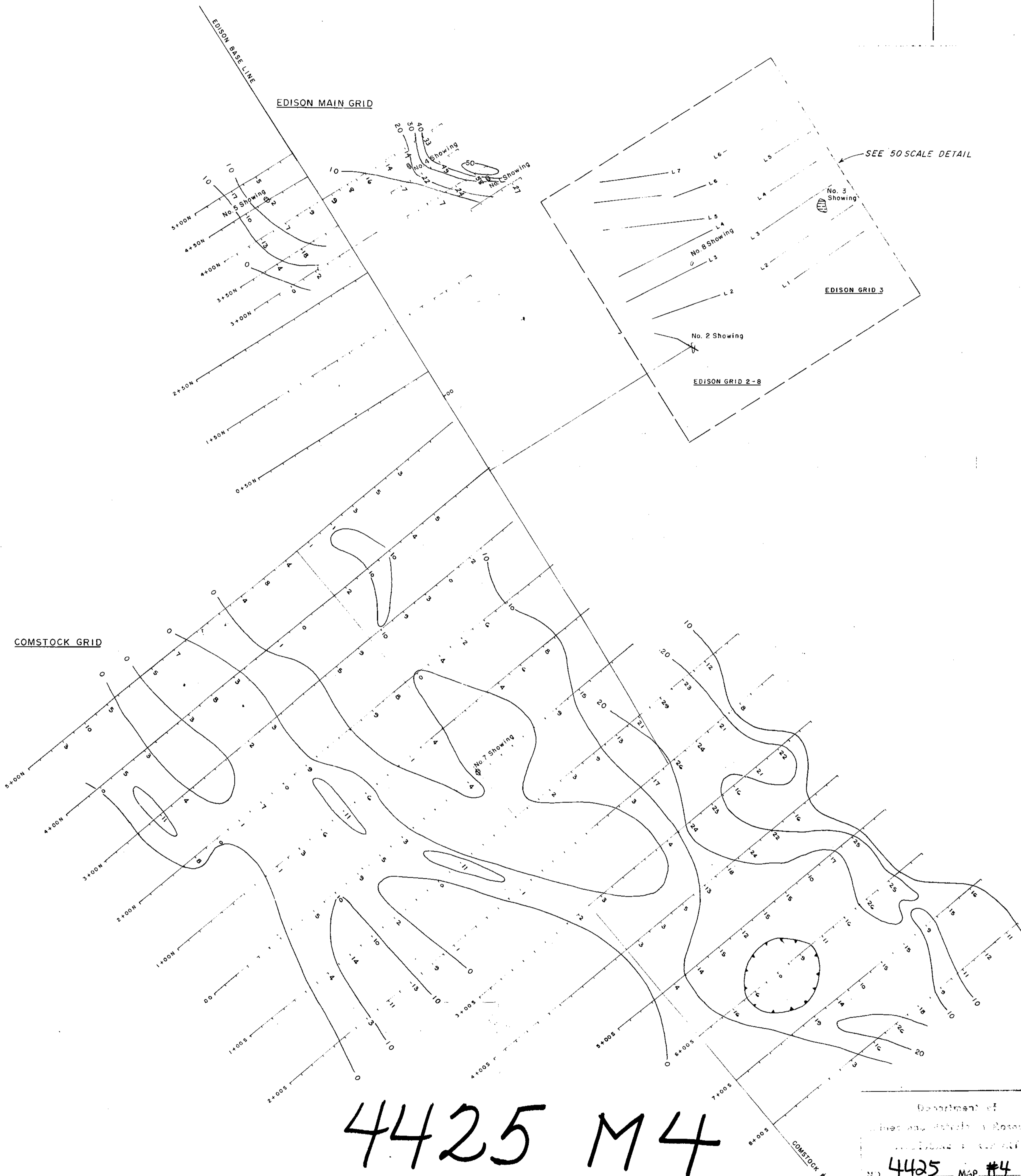
ISO EXPLORATIONS LTD.

YREKA PROJECT  
 EDISON-COMSTOCK GRIDS  
**GEOCHEMICAL SURVEY**  
 COPPER

0 100 200 300 400  
 Scale - Feet

DRAWN: R. CROSSLEY/R.H.	REVISED:	MAP No: 8 A
DATE: AUG. 1972	DATE:	N.T.S. 92/L

5



4425 M4

Department of  
Interior  
Bureau of Land Management  
N.D. 4425 MAP #4

ISO EXPLORATIONS LTD.

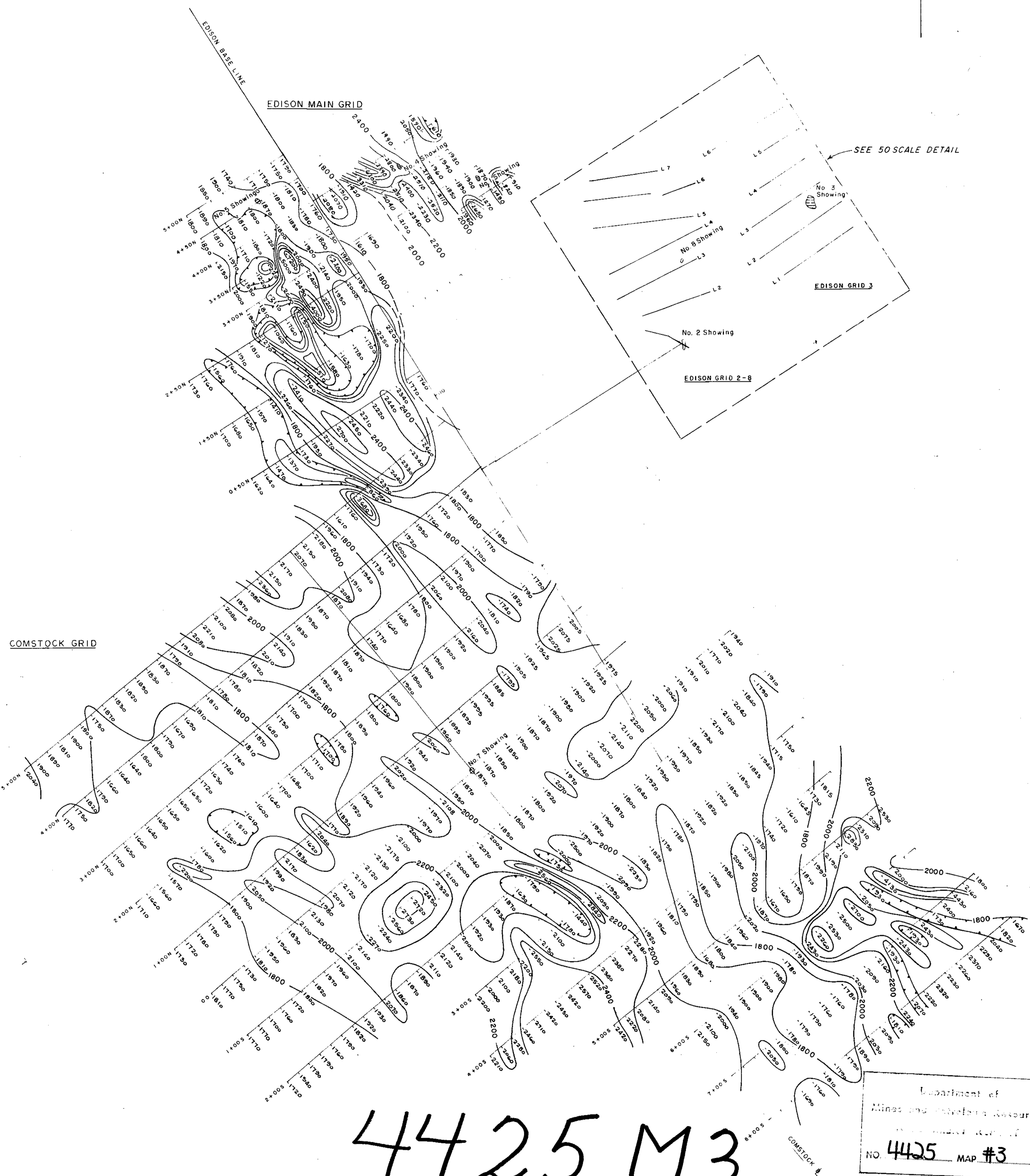
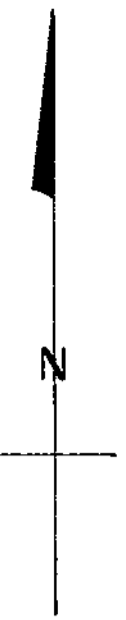
YREKA PROJECT  
EDISON - COMSTOCK GRIDS  
VLF ELECTROMAGNETIC SURVEY

0 100 200 300 400  
Scale - Feet

DRAWN: R. CROSSLEY / O.C. DATE: AUG. 1972	REVISED: DATE:	MAP No: 7 N.T.S. 92/L
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4





4425 M3

Department of  
Mines and Geophysical Resources  
NO. 4425 MAP #3

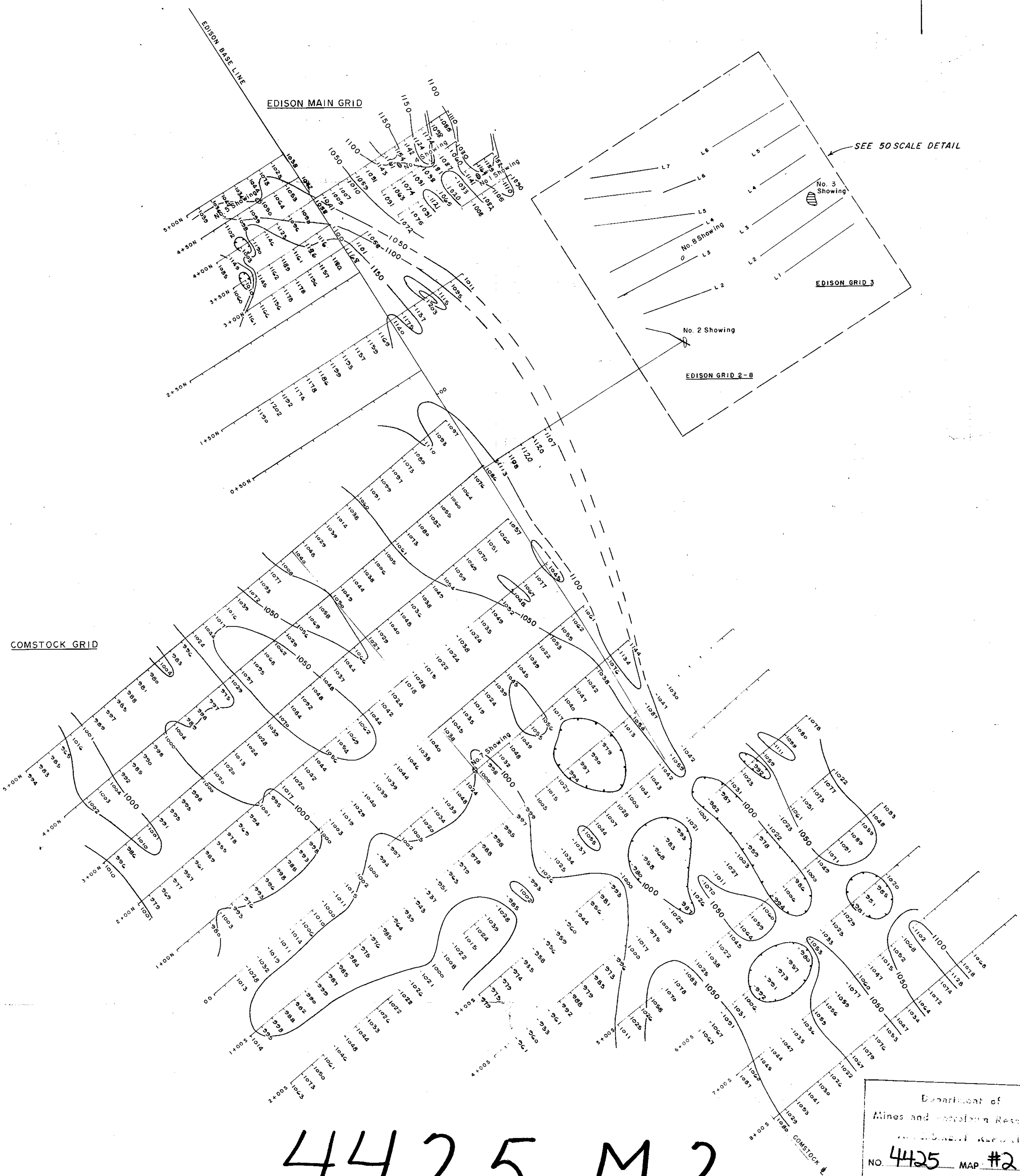
ISO EXPLORATIONS LTD.

YREKA PROJECT  
EDISON - COMSTOCK GRIDS  
**MAGNETOMETER SURVEY**

0 100 200 300 400  
Scale - Feet

DRAWN: R. CROSSLEY / O.C.	REVISED:	MAP No: 6
DATE: AUG. 1972	DATE: *	N.T.S. 92 / L

3

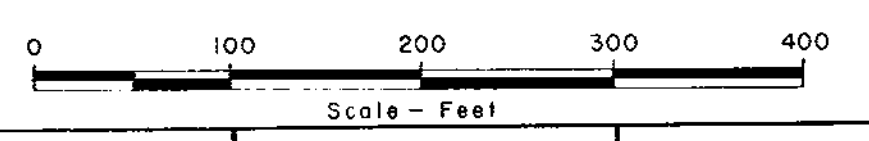


4425 M2

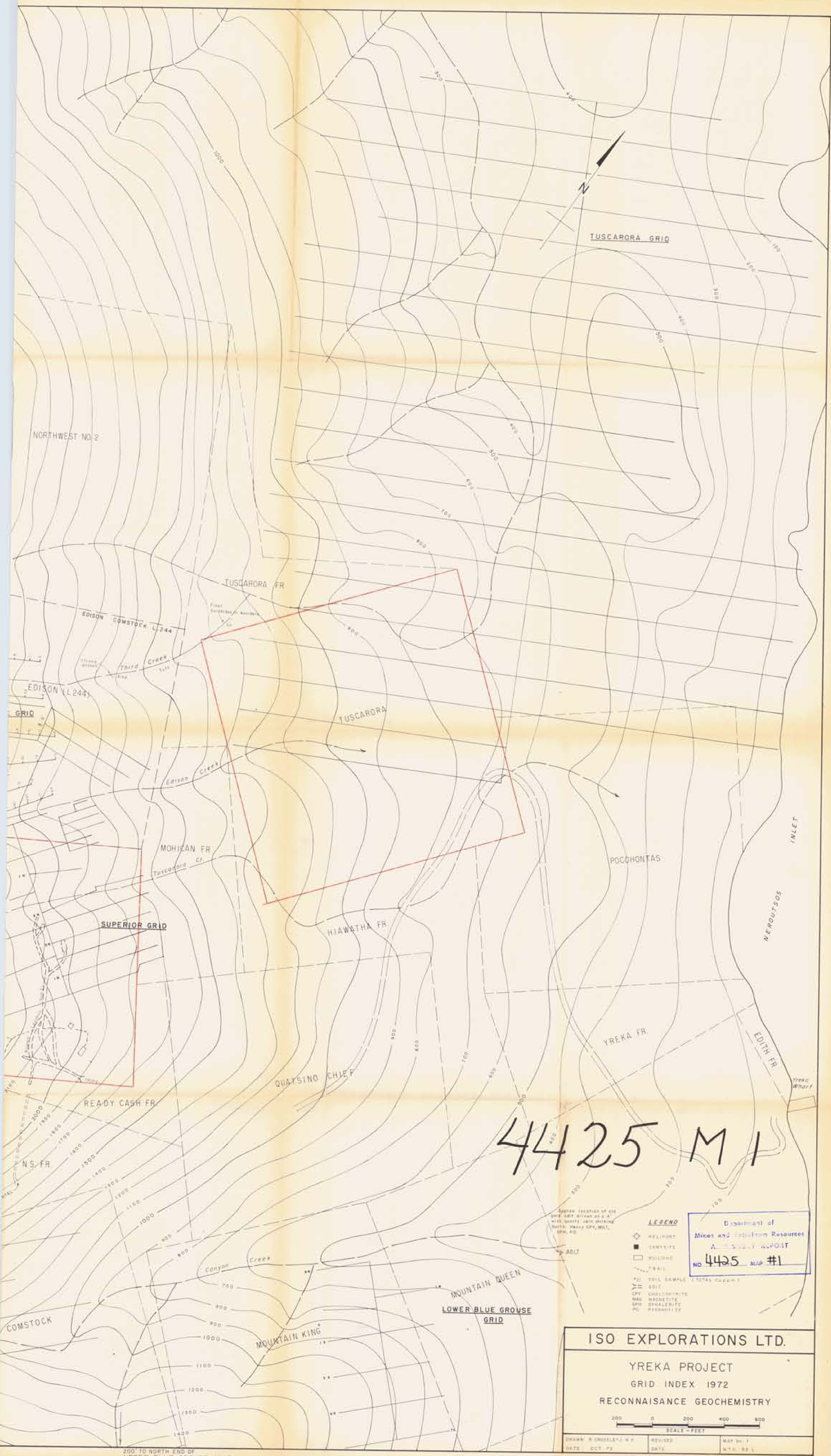
Department of  
Mines and Geophysical Resources  
Geological Report  
NO. 4425 MAP #2

ISO EXPLORATIONS LTD.

YREKA PROJECT  
EDISON - COMSTOCK GRIDS  
SELF-POTENTIAL SURVEY



DRAWN: R. CROSSLEY/ O.C.	REVISED:	MAP No. 5	2
DATE: AUG. 1972	DATE:	N.T.S. 92/L	



TUSCARORA GRID

NORTHWEST NO 2

TUSCARORA FR

EDISON COMSTOCK L 244

EDISON (L 244)

GRID

TUSCARORA

SUPERIOR GRID

MOHICAN FR

POCCHONTAS

HIAWATHA FR

N. ROUTES

YREKA FR.

EDITH FR.

QUATSINO CHIEF

READY CASH FR.

4425 M 1

SPONGE, collection of ore  
 with quartz vein striking  
 north. Heavy CPY, MGT,  
 SPH, PO.

LEGEND

- ◇ RELIEF POINT
- TANKSITE
- PILLING
- TRAIL
- ⊕ SOIL SAMPLE (TOTAL CREEK)
- EDIT
- CPY CHALCOPRYTE
- MGT MAGNETITE
- SPH SPHALERITE
- PO PYRRHOTITE

Department of  
 Mines and Technical Resources  
 A-3201 REPORT  
 NO. 4425 MAP #1

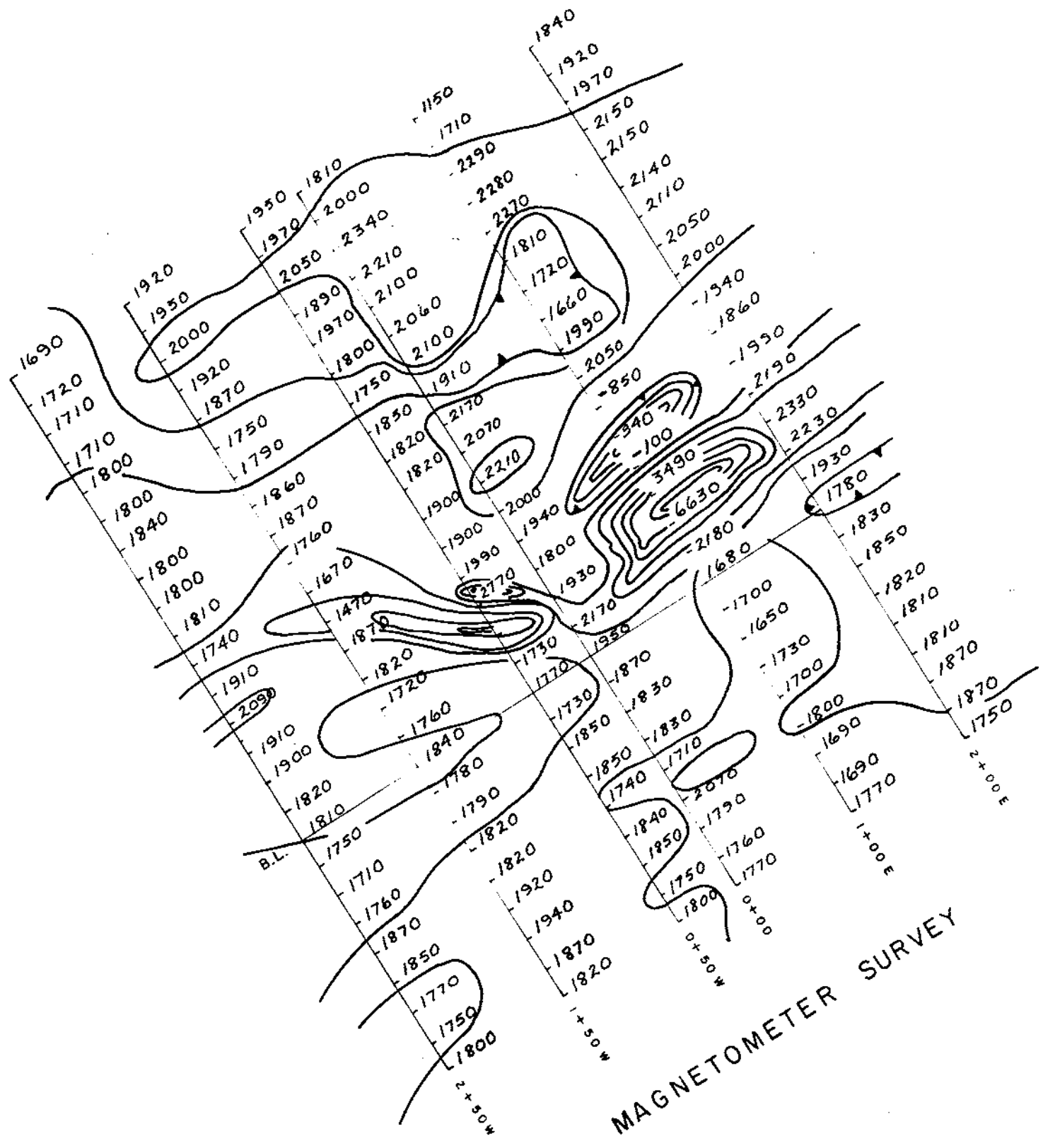
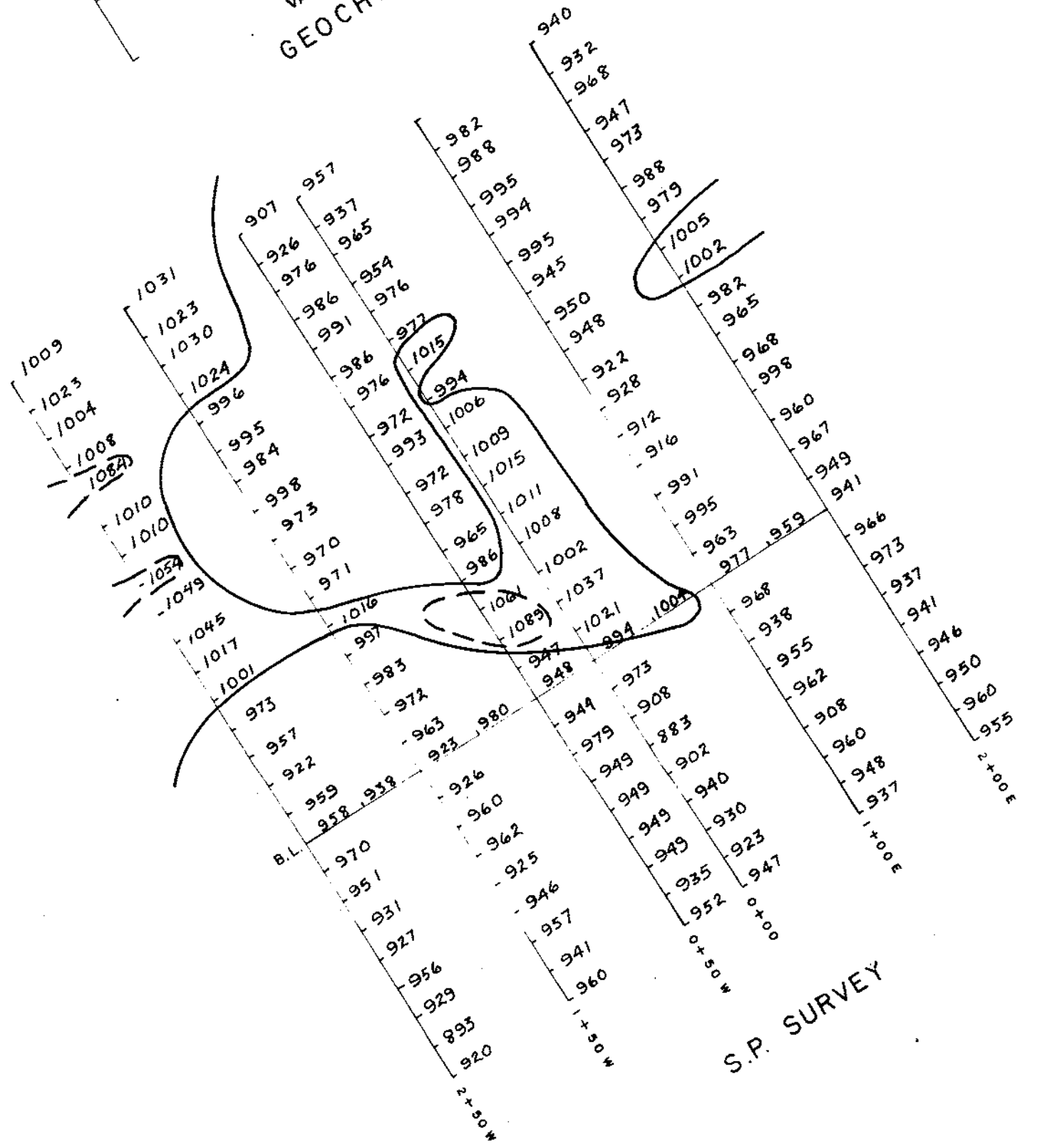
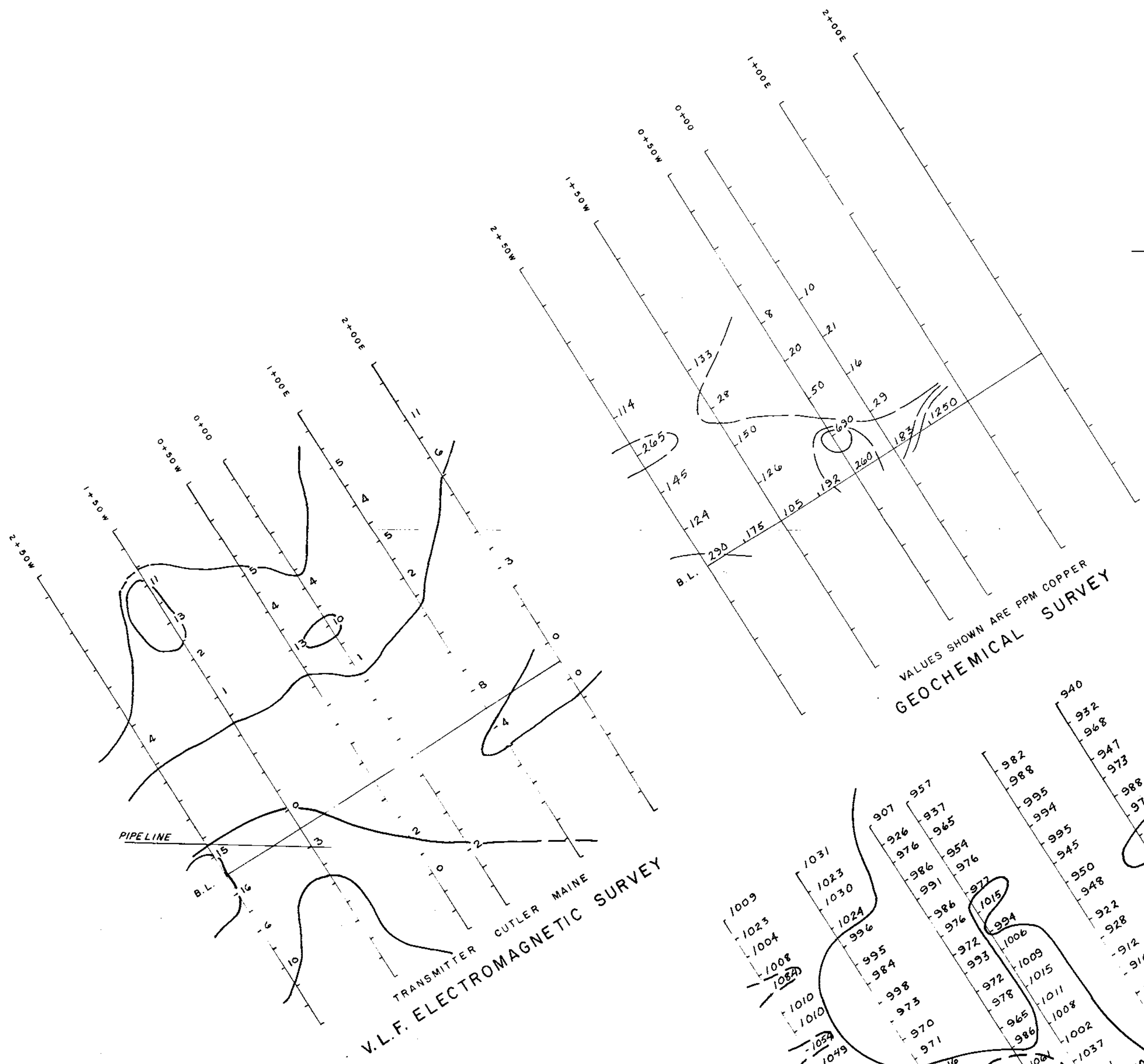
ISO EXPLORATIONS LTD.

YREKA PROJECT  
 GRID INDEX 1972  
 RECONNAISSANCE GEOCHEMISTRY



DRAWN BY R. CRISLEY & R. H.	REVISED DATE	MAP BY R. H. CRISLEY
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200' TO NORTH END OF  
 UPPER BLUE GROUSE GRID



4425 51

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 4425 MAP #51

ISO EXPLORATIONS LTD.

YREKA PROJECT  
ANVIL GRID  
V.L.F. ELECTROMAGNETIC SURVEY  
MAGNETOMETER SURVEY  
GEOCHEMICAL SURVEY  
SELF-POTENTIAL SURVEY

Scale - Feet  
0 50 100 150 200

DRAWN: R. CROSSLEY/R.H. DATE: AUG. 1972  
REVISED: DATE:  
MAP No: 16 N.T.S. 92/L 51