

81-1230-100/4

GEOLOGY AND SOIL GEOCHEMISTRY SURVEY REPORT

EA CLAIM

IN THE

SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA

AT

Latitude:  $49^{\circ}18'N$

Longitude:  $120^{\circ}11'W$

CLAIM MAP M92H/8

FOR

TUSCALOOSA OIL & GAS INC.

BY

E. AMENDOLAGINE, P.Eng.

February 1, 1982

part 1  
of 2

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT

10,014  
NO.

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MAPS

GEOCHEMICAL SURVEY	- Cu ppm
	- Mo ppm
	- Pb ppm
	- Zn ppm
	- Ag ppm
	- As ppm
	- Au ppm
	- Ni ppm
GEOLOGY	EA Claim

## SUMMARY

Geologic mapping and soil geochemical survey was carried out during the period June 25-November 20, 1981 on the EA Claim in the Similkameen Mining Division of British Columbia.

The EA Claim, "20 units", is part of a larger survey program which encompasses 6 claims consisting of 120 units. The EA Claim is situated in the south eastern portion of the total area surveyed. The geology of the area consists of Coast Intrusives into the Jurassic and Triassic Nicola Groups.

The purpose of this survey was to test and explore the area for economical mineral deposits.

This report covers the EA 20 unit claim area. The survey was conducted with control lines consisting of a north-south baseline on the west boundary of the claim with survey lines running east from the baseline and spaced 150 meters apart.

A north-south tie line was also run from 18 + 00E on L 19+75S to 16+00E on the "0" north line of the claim to tie in the east-west lines.

Soil samples were taken at 150 meter spacings on all lines.

The survey covered the whole claim.

There are one hundred and seventy-five soil samples taken on this survey included in the statistical analysis.

The addition of 28 peripheral samples are not included in this analysis.

The samples were assayed for Au, Ag, As, Cu, Mo, Pb, Zn, Ni, Co, Cd, and Sb.

The statistical analysis indicated definite but weak anomalous mineralization for all the elements except Co, Cd and Sb. The main anomalous area lies in the north-eastern portion of the claim with mineralization scattered throughout the claims area.

A concentration of Au assays above background readings of .005 are situated in the northwestern portion of the claim. This area could be checked out with a detail survey covering the 7 readings.

There are definite anomalous trends shown on this portion of the property. The remainder of the property should be soil-sampled to complete the information.

The anomalous area is underlain by the Triassic Nicola rock formation group and flanked to the southeast and southwest by the pyroxenite-peridotite-gabbros and Coast Intrusives.

#### CLAIMS

The EA claim is shown on Claim Sheet M92H/8, and the topographic sheet as follows:

N.H.O. 2 1011(5)	N.H.O. 4 1013(5)	N.H.O. 6 1015(5)
------------------------	------------------------	------------------------

396(8)  
L  
3408  
390(7)  
3407  
C.A.  
ALSO  
1162(9)  
(2N x 2E 3/4)  
BLUDD  
2  
1026(5)  
(5S x 2W)  
GARY 2  
397(8)  
5778

MIKE  
1126(8)  
48336  
(2N x 3E)  
Var.

PATSY-I  
1167(9)  
(3S x 4W)  
(Stirling)

GOLDHILL  
1161(9)  
(3S x 5E)

(2N x 2E) 57287		
N.N. 1 745(10)	N.N. 3 872(10)	N.N. 5 874(10)
N.N. 2 746(10)	N.N. 4 873(10)	N.N. 6 875(10)
65911		
J.B. 8 871(10)	J.B. 6 869(10)	J.E. 86
J.B. 7 870(10)	J.B. 5 868(10)	J.E. 86
HEDLEY GOLD-2		

MA  
1293(II)  
(4N x 5W)

SA  
1294(II)  
(4N x 5E)  
Cr.

JA  
1295(III)  
(5W x 4N)

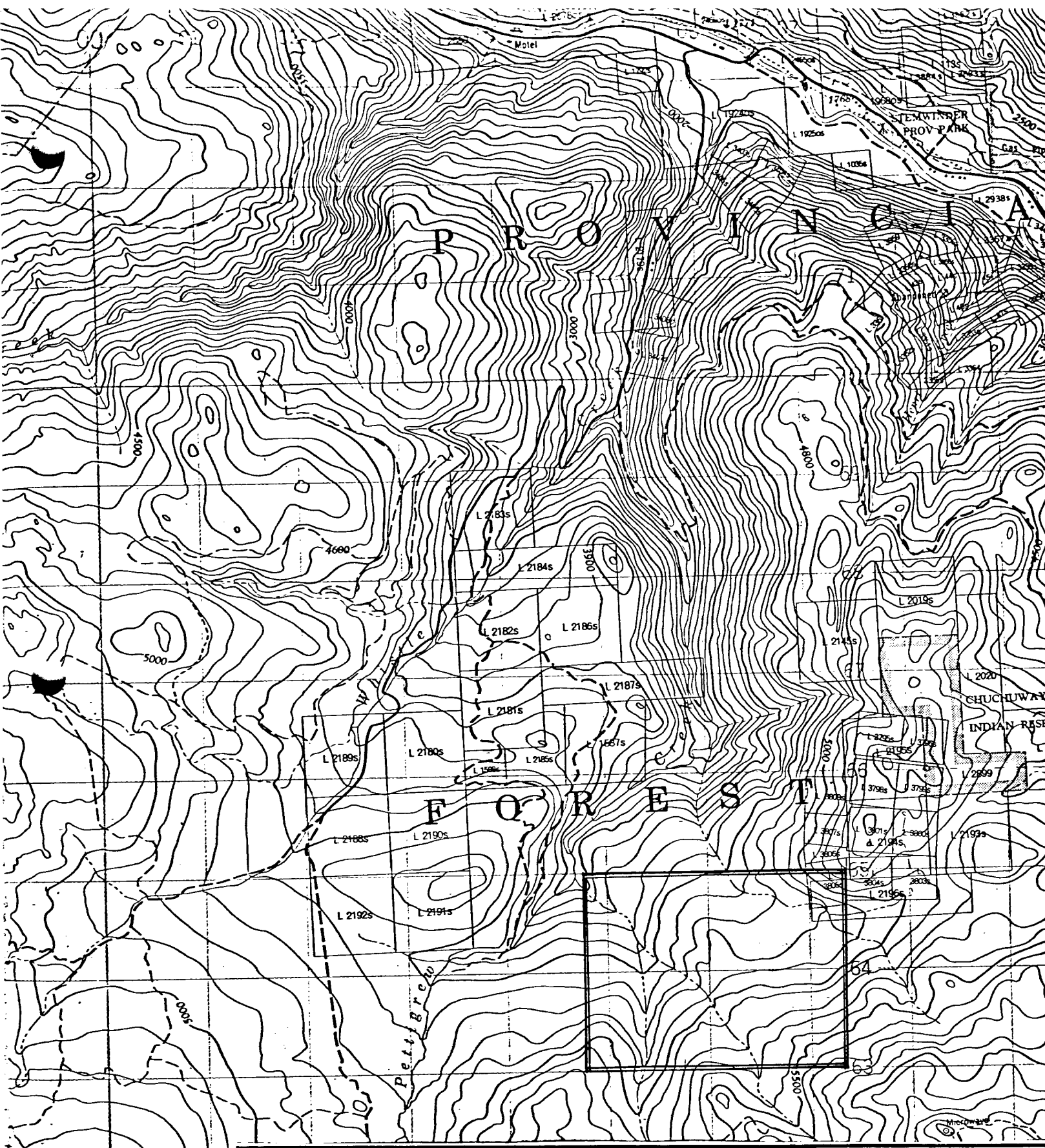
VA  
1297(III)  
(5E x 4W)

LR 2C

GM  
1296(III)  
(5W x 4S)  
Whistle  
Pettigrew

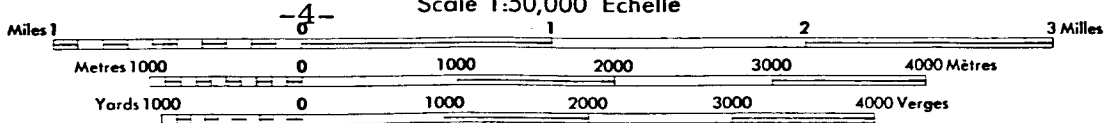
EA  
1330(III)  
(4S x 5E)

AGAU 2 728(9)		AGAU 1 727(9)	
BLITZ 3 1204(10)	BLITZ 4 1205(10)	AGAU 4 730(9)	AGAU 3 729(9)
BLITZ 1 1202(10)	BLITZ 2 1203(10)	AGAU 6 732(9)	AGAU 5 731(9)
BAMAR 2 1212(10)	BAMAR 1 1211(10)	AGAU 8 734(9)	AGAU 7 733(9)
BAMAR 4 1214(10)	BAMAR 3 1213(10)	SAM 2 1196(10)	SAM 1 1195(10)
SAM 4 1198(10)		SAM 3 1197(10)	



# HEDLEY BRITISH COLUMBIA

Scale 1:50,000 Échelle



SURVEY PERFORMED

A line grid and soil geochemistry surveys were conducted on the property during the period August 12 to 24, 1981. The survey was conducted by Manny Consultants Ltd. with the assistance of:

Maurice Amendolagine

Calvin Boyle

Dave Leskewycz

Jeff Nagazine

Rob Ferraro

The line grid was established on the property tied into the LCP in the northwest corner of the claim.

The grid consisted of compass and chain and flagging lines.

The main baseline N-S is the west boundary of the claim. The east lines are run off the baseline, and are spaced 150 meters apart. A tie line is run from 18 + 00E on L 19+75E, the south boundary line, to 12 + 00E on the "0" line the north boundary line.

The soil geochemical survey used the line grid for control and samples were taken at 150 meter spacing along the lines and the baseline.

SOIL GEOCHEMISTRY SURVEY

Soil sampling was performed on an established grid at 150 meter intervals. The samples were taken with a mattock in the "B" horizon where possible. They were placed in bags and marked for grid location.

The samples were assayed by Acme Analytical Laboratories in Vancouver, B.C. The assays for Au, As, Ag, Cu, Mo, Pb, Zn, Cd, Sb, Ni and Co. The assay certificates follow after the statistical analyses. The assays are plotted on the plans and enclosed in the report following the statistical analysis.



STATISTICAL ANALYSIS

<u>ELEMENT</u>	<u>ASSAY RANGE</u>	<u>NO. OF SAMPLES</u>
Gold	B.G. 0-.010	166
	Threshold	7
	Anomalous .015-.025	2
<hr/>		
Arsenic	B.C. 0-6	139
	Threshold 7-9	21
	Anomalous 10-31	15
<hr/>		
Silver	B.G. .1	148
	Threshold .2	11
	Anomalous .3-.5	16
<hr/>		
Lead	B.G. 0-9	130
	Threshold 10-14	41
	Anomalous 19	4
<hr/>		
Zinc	B.C. 0-75	148
	Threshold 76-99	9
	Anomalous 100-440	17
<hr/>		
Copper	B.C. 1-19	157
	Threshold 20-30	8
	Anomalous 31-40	10
<hr/>		
Molybdenum	B.G. 0-1	153
	Threshold 2	17
	Anomalous 3-30	5
<hr/>		
Nickel	B.G. 0-9	162
	Threshold 10-14	10
	Anomalous 15-20	2
<hr/>		

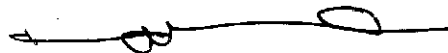
GEOLOGY

The geologic formations of the property area are the Triassic Nicola rock formation, the Jurassic Coast Intrusives and the peridotite-gabbros and pyroxenites.

The geochemical anomalous area in the north-eastern portion of the EA claim is underlain by the Jurassic Coast Intrusive.

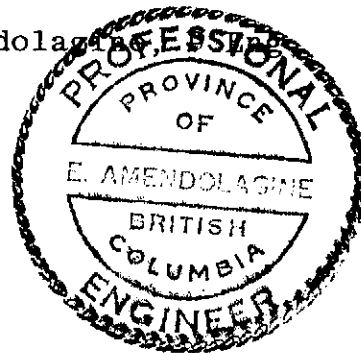
The geologic mapping was conducted under my supervision. D.C. Olson was the geologist. His report and map follows.

Respectfully submitted,



E. Amendolagine

1 February 1982



APPENDIX I







To: Manny Consultants Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R8

phone:253 - 3158

File No. 81-0841

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

10

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	As	Cd	Sb	Au	
10+50S 1+50 E	1	9	10	31	.1	11	4	7	1	2	.005	25
3+00	1	5	6	18	.1	4	2	4	1	2	.005	26
4+50	1	3	5	55	.1	4	4	5	1	2	.005	27
6+00	1	4	6	42	.1	7	3	6	1	2	.005	28
7+50	1	4	10	41	.1	5	4	9	1	2	.005	29
9+00	1	6	11	73	.1	5	5	12	1	2	.005	30
10+50	2	7	13	87	.1	6	5	10	1	2	.005	31
12+00	1	4	8	39	.1	5	4	4	1	2	.005	32
13+50	1	5	6	30	.1	7	5	6	1	2	.005	33
15+00	1	5	6	42	.1	6	3	4	1	2	.005	34
16+50	1	5	8	16	.1	4	3	2	1	2	.005	35
18+00	1	5	6	15	.1	5	2	2	1	2	.005	36
19+50	1	5	6	14	.1	3	2	3	1	2	.005	37
21+00	1	5	8	24	.1	4	4	5	1	2	.005	38
22+50	1	5	9	61	.1	5	4	6	1	2	.005	39
10+50S 24+00 E	1	5	8	26	.1	5	4	5	1	2	.005	40
12+00S 4+50 E	1	4	5	22	.1	3	2	4	1	2	.005	1
6+00	1	8	6	23	.1	4	5	7	1	2	.005	2
7+50	1	6	8	27	.1	4	3	4	1	2	.005	3
9+00	1	3	7	48	.1	3	4	2	1	2	.005	4
10+50	1	4	8	72	.1	5	3	7	1	2	.005	5
12+00	1	2	5	30	.1	3	3	2	1	2	.005	6
13+50	1	2	7	43	.1	5	3	6	1	2	.005	7
15+00 N.S.												8
16+50	1	5	8	30	.1	7	4	4	1	2	.005	9
18+00	1	2	8	22	.1	3	2	4	1	2	.005	10
19+50	1	7	7	30	.2	10	5	5	1	2	.005	11
21+00	1	21	13	25	.3	7	5	8	1	2	.005	12
22+50	1	4	6	17	.1	3	3	5	1	2	.005	13
12+00S 24+00 E	1	3	4	15	.1	3	3	3	1	2	.005	14
												15
13+50S 1+50 E	1	3	7	19	.1	5	2	3	1	2	.005	33
3+00	2	2	6	22	.1	5	5	4	1	2	.005	34
4+50	1	4	5	44	.1	4	3	3	1	2	.005	35
13+50S 6+00 E	1	7	36	42	.1	4	4	3	1	2	.005	36
												37
13+50S 7+50 E	1	4	11	92	.1	6	4	7	1	2	.005	1
9+00	1	3	8	13	.1	2	1	1	1	2	.005	2
10+50	1	4	8	36	.1	5	3	6	1	2	.005	3
12+00	1	5	12	40	.1	5	3	9	1	2	.005	4
13+50	2	11	14	32	.1	7	5	4	1	2	.005	5
15+00	1	5	11	33	.1	5	4	8	1	2	.005	6
16+50	1	2	6	30	.1	3	3	5	1	2	.005	7
18+00	1	7	7	35	.1	7	4	3	1	2	.005	8
13+50S 19+50 E	1	3	7	16	.1	3	2	4	1	2	.005	9





To: Manny Consultants Ltd.,

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File No. 81-0841

Type of Samples

Disposition

### GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Mo	Cu	Pb	Zn	Ag	Ni	Co	As	Cd	Sb	Au	
SBL 21+00 E	1	31	8	35	.8	9	7	5	1	2	.005	1
22+50	1	4	5	27	.1	4	4	2	1	2	.005	2
SBL 24+00 E	1	6	7	20	.1	3	4	2	1	2	.005	3
SBL 1+50 E	1	3	5	41	.1	5	4	2	1	2	.005	25
3+00	1	3	5	33	.1	5	4	6	1	2	.005	26
4+50	1	3	8	43	.1	3	4	2	1	2	.005	27
6+00	1	4	5	23	.1	5	4	3	1	2	.005	28
7+50	1	2	4	11	.1	2	2	2	1	2	.005	29
9+00	1	3	7	45	.1	3	3	2	1	2	.005	30
10+50	1	15	3	22	.1	4	4	2	1	2	.005	31
12+00	1	3	4	26	.1	3	3	3	1	2	.010	32
13+50	1	3	6	35	.3	4	3	2	1	2	.005	33
15+00	1	6	4	48	.1	5	6	2	1	2	.005	34
16+50A	1	5	6	14	.1	4	3	2	1	2	.005	35
16+50B	1	11	12	29	.3	5	7	3	1	2	.005	36
18+00	1	3	4	22	.1	4	4	2	1	2	.005	37
SBL 19+50 E	1	4	6	18	.1	5	4	2	1	2	.005	38
												39
												40

All reports are the confidential property of clients  
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED July 22, 1981

DATE REPORTS MAILED July 30, 1981

ASSAYER

*Dean Toye*  
DEAN TOYE, B.Sc.  
CHIEF CHEMIST  
CERTIFIED B.C. ASSAYER



APPENDIX II

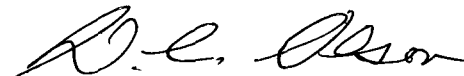
GEOLOGY - EA CLAIM

Location: Latitude 49°11'N, Longitude 120°11'.

The property lies on the eastern portion of Pettigrew Creek, south of the Similkameen River, about 22 km from Hedley. Access is gained from a logging road off Highway 3, 8 km west of Hedley, and traverses the property from west to east.

The property is also traversed by 3 creeks which flow into Pettigrew Creek. These creeks have dense underbrush and deadfall and are most difficult to travel.

To the south of the 16 + 50 Line, the topography is quite steep, fairly heavily forested but open enough for good travel. A lot of fairly large outcrops appear here, consisting of pink coarse to fine-grained granite, grey phaneritic diorite and granodiorite. North of the 16 + 50 line the ground is gently sloping. Dense underbrush and secondary growth make traversing difficult. Outcrops examined to the north along the east tie line displayed the same variations of granite and diorite. The extreme eastern corner along the north baseline is open alpine rangeland.



GEOLOGY BY: D.C. Olson

C E R T I F I C A T E

I D.C. Olson, of Vancouver, B.C., do hereby certify that:

1. I am a graduate of McGill University., B.Sc. in Geology, 1959.
2. I have practiced my profession since 1959 with the G.S.C., Cominco, and Manny Consultants.
3. The accompanying report is based entirely on my personal examination of the property during the period of September 24th to October 15th, 1981, and on information obtained from G.S.C. memoir 243, 1981.
4. I have no interest, direct or indirect, in the EA claim, nor do I expect to receive any interest in the shares of the company.
5. I consent to the use of this report in, or in conjunction with, a prospectus, or a statement of material facts, relating to the raising of funds for this project.

DATED at Vancouver, British Columbia this sixteenth day of October, 1981.

*D.C. Olson*  
D.C. Olson

APPENDIX IV

COST BREAKDOWN

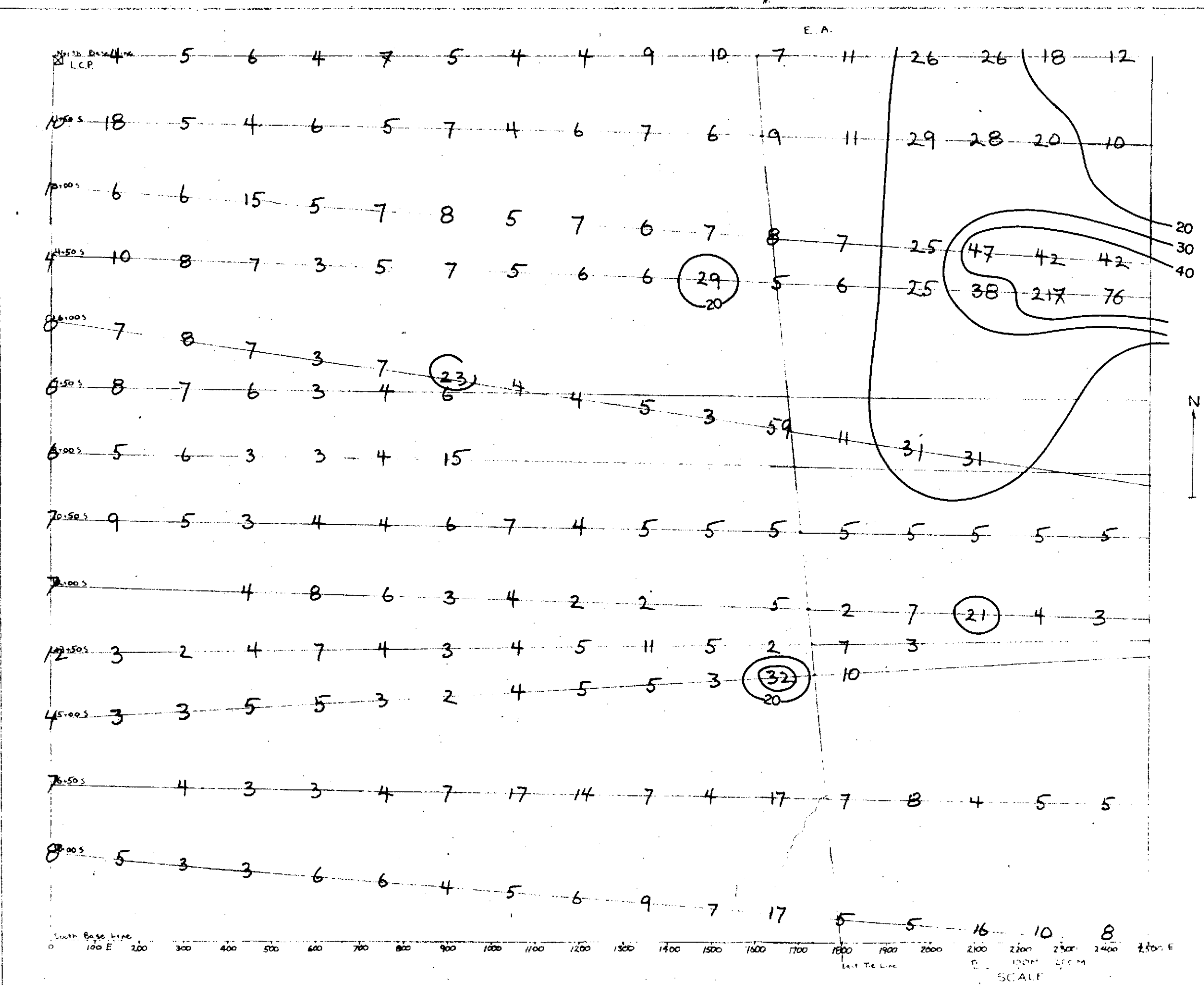
Maurice Amendolagine	8-17-81 11 days @ 150/D	\$ 1,650.00
Calvin Boyle	8-17-81 11 days @ 100/D	1,100.00
Dave Leskewycz	8-17-81 11 days @ 100/D	1,100.00
Jeff Nagazine	10-17-81 8 days @ 100/D	800.00
Rob Ferraro	10-17-81 8 days @ 100/D	800.00

SURVEY CREW

Transportation, 4 x 4 transportation and fuel	790.17
Room and Board, 43 man days	1,960.00
Assay	1,922.00
Communication Supplies and Miscellaneous	318.00
Draft - Typing - Prints	1,065.00
Reports	1,600.00
Geology and Report	2,000.00
Western Geophysical Aero Data	<u>2,500.00</u>
	\$ <u><u>17,605.17</u></u>

MINERAL RESOURCES BRANCH  
 GEOCHEMICAL REPORT  
**10,014**  
 NO.

part 1  
 of 2

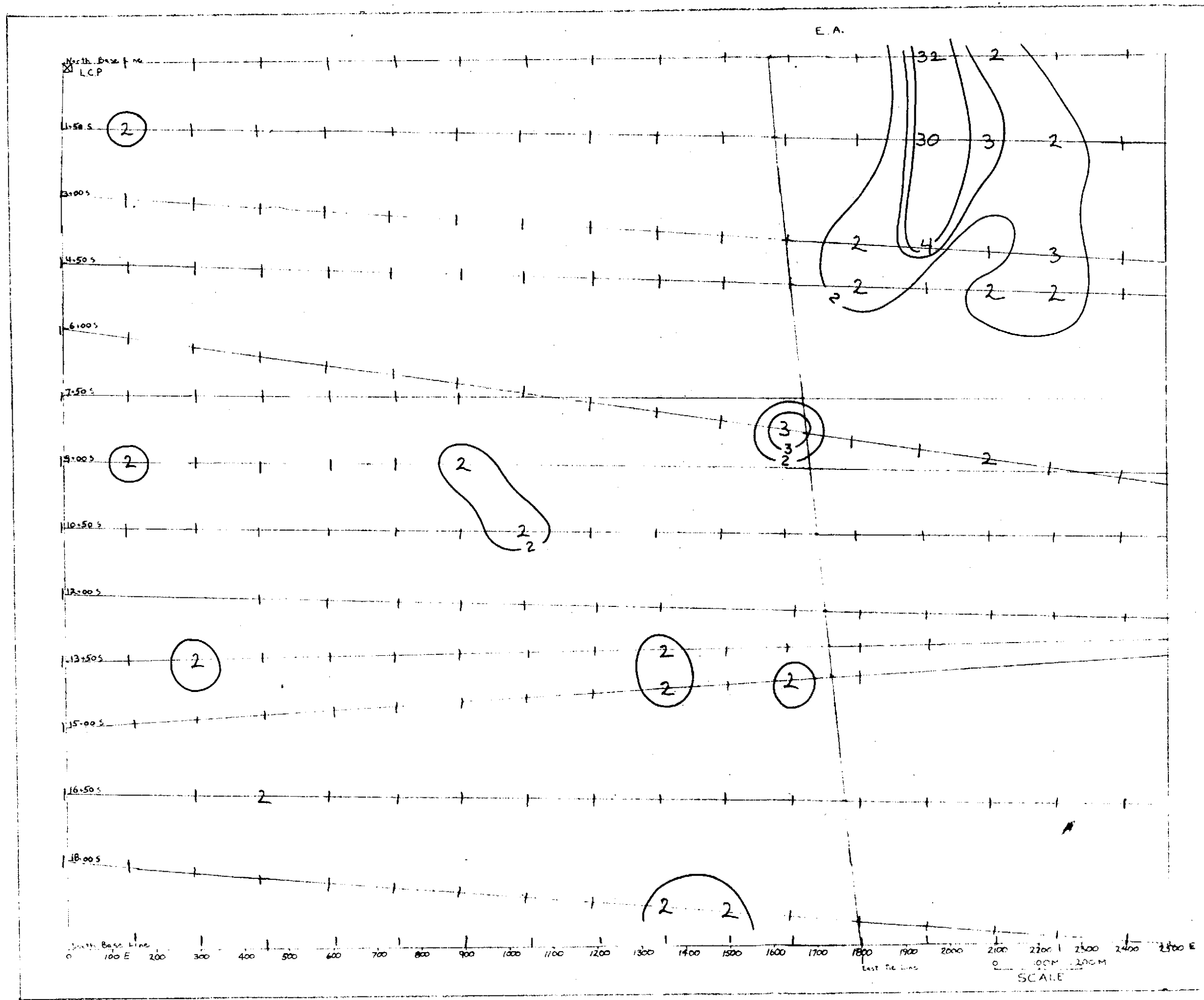


LEGEND

CONTOUR INTERVAL

- 20 ppm
- 30 ppm
- 40 ppm

GEOCHEMICAL SURVEY  
 Cu ppm  
 EA CLAIM (20)  
 TUSCALOOSA OIL & GAS INC.  
 Similkameen Mining Division  
 NTS 92H/8  
 49°15' N. Lat. 120°11' W. Long.



MINING DIVISION  
 TUSCALOOSA OIL & GAS INC.  
**10,014**  
 NO.

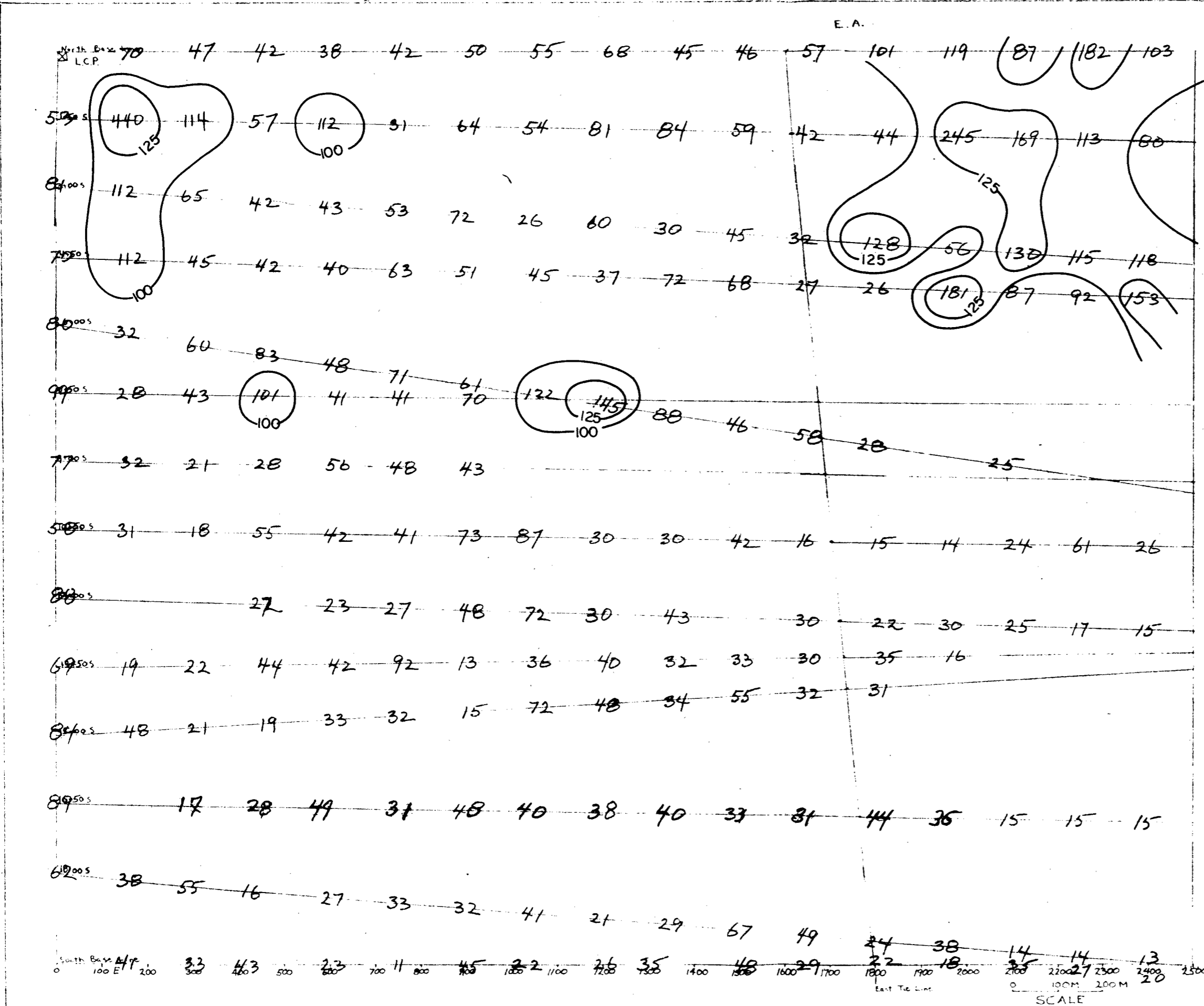
part 1  
 of 2

LEGEND

CONTOUR INTERVAL

- 2 ppm
- 3 ppm
- 4 ppm

GEOCHEMICAL SURVEY  
 Mo ppm  
 EA CLAIM (20)  
 TUSCALOOSA OIL & GAS INC.  
 Similkameen Mining Division  
 NTS 92H/8  
 49°15' N. Lat. 120°11' W. Long.



MINING BRANCH  
 TUSCALOOSA DISTRICT  
**10,014**  
 NO.

Part 1  
 of 2



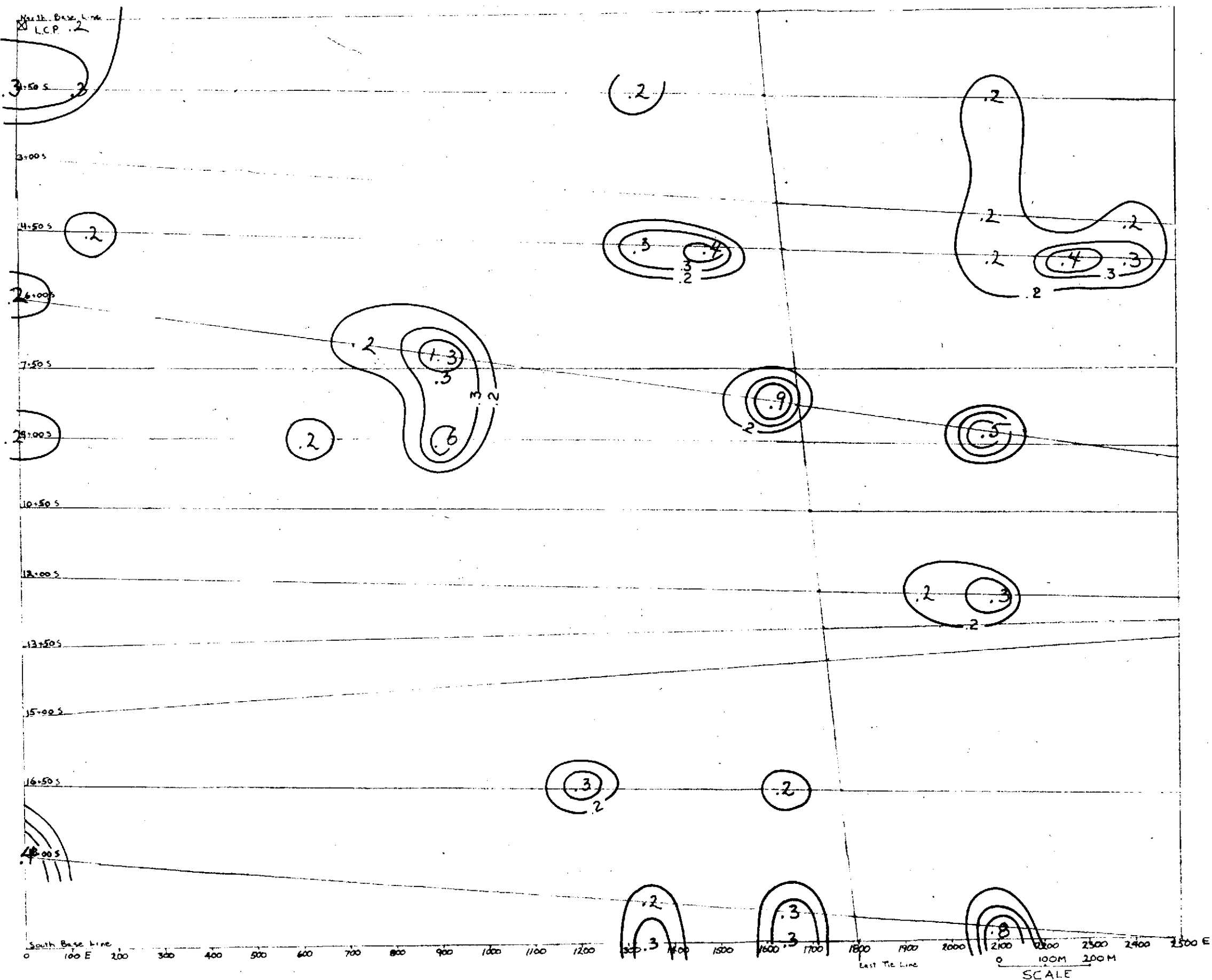
LEGEND

- CONTOUR INTERVAL
- 100 ppm
  - 125 ppm

GEOCHEMICAL SURVEY  
 Zn ppm  
 EA CLAIM (20)  
 TUSCALOOSA OIL & GAS INC.  
 Similkameen Mining Division  
 NTS 92H/8  
 49°15' N. Lat. 120°11' W. Long.



E. A.



MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,014**  
NO.

part 1  
of 2



LEGEND

CONTOUR INTERVAL

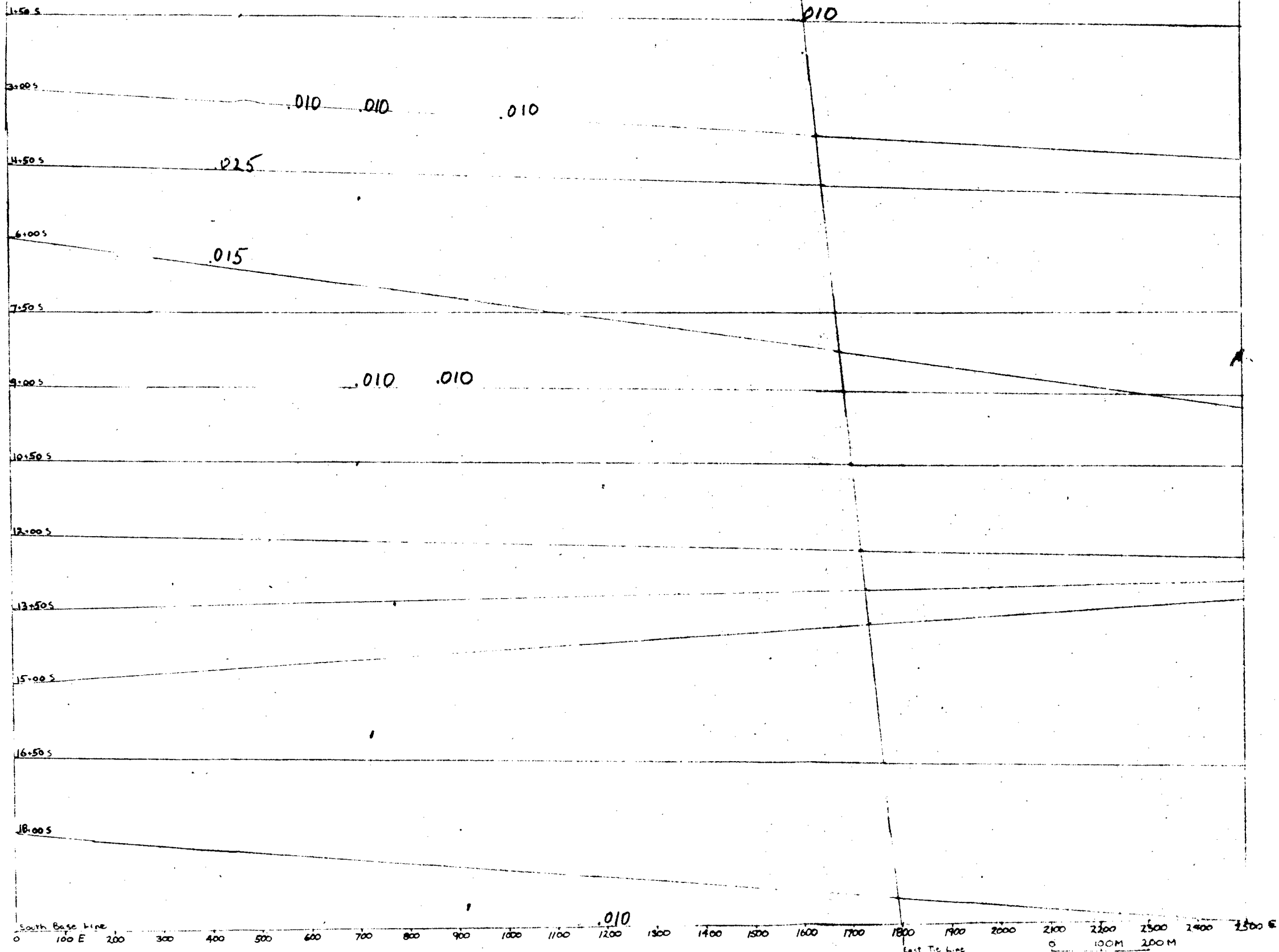
- .2 ppm
- .3 ppm
- .4 ppm

GEOCHEMICAL SURVEY  
Ag ppm  
EA CLAIM (20)  
TUSCALOOSA OIL & GAS INC.  
Similkameen Mining Division  
NTS 92H/8  
49°15' N. Lat. 120°11' W. Long.



E.A.

North Base Line  
L.C.P.



MINING DIVISION BRANCH  
GEOCHEMICAL REPORT

**10,014**  
NO.

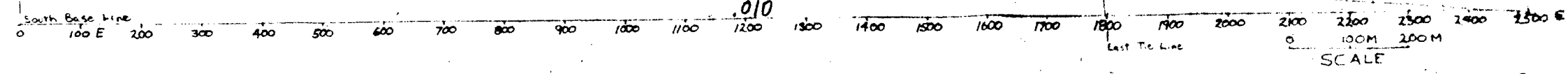
**part 1  
of 2**

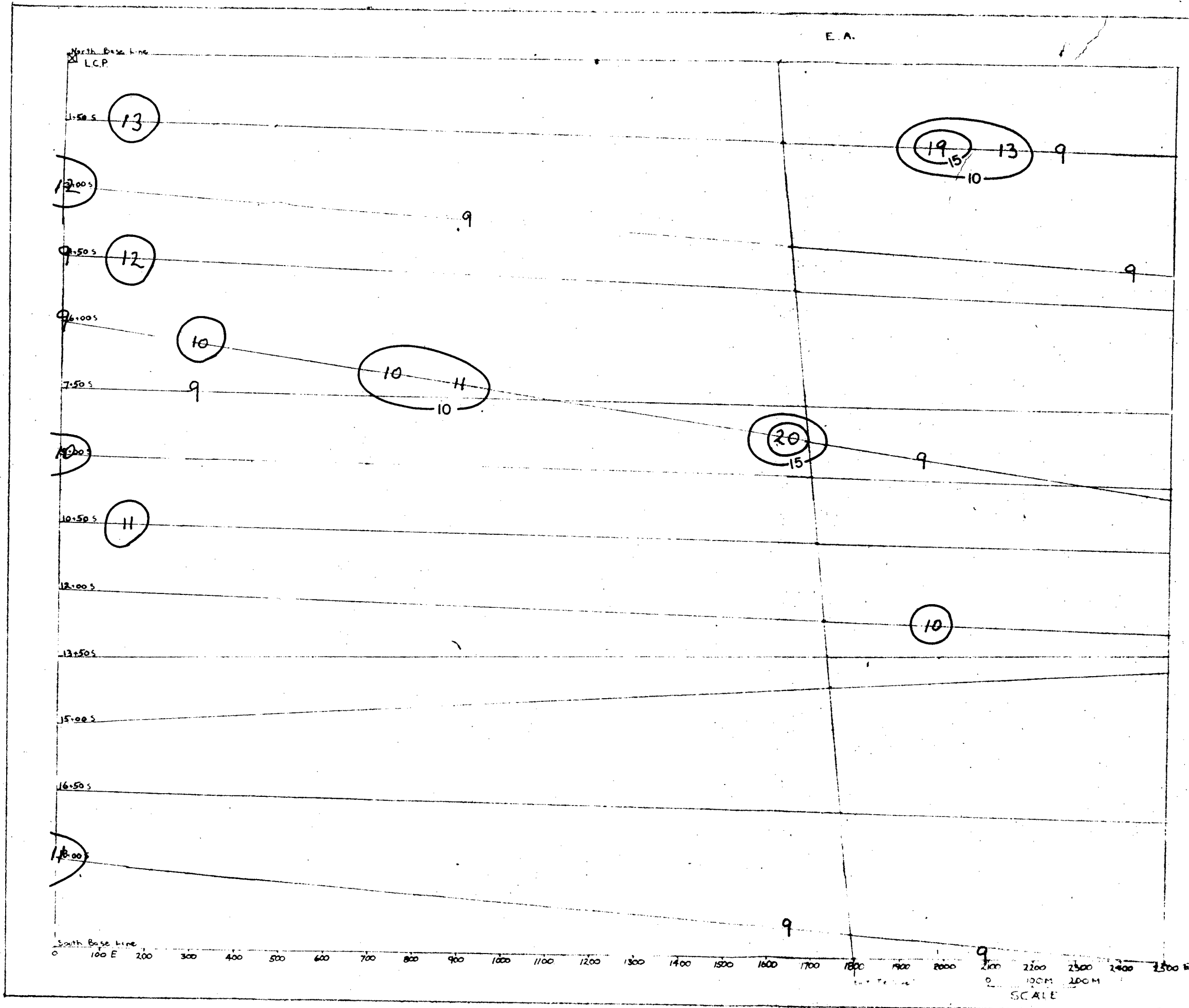


LEGEND

Values above .005

GEOCHEMICAL SURVEY  
 Au ppm  
 EA CLAIM (20)  
 TUSCALOOSA OIL & GAS INC.  
 Similkameen Mining Division  
 NTS 92H/8  
 49°15' N. Lat. 120°11' W. Long.





MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
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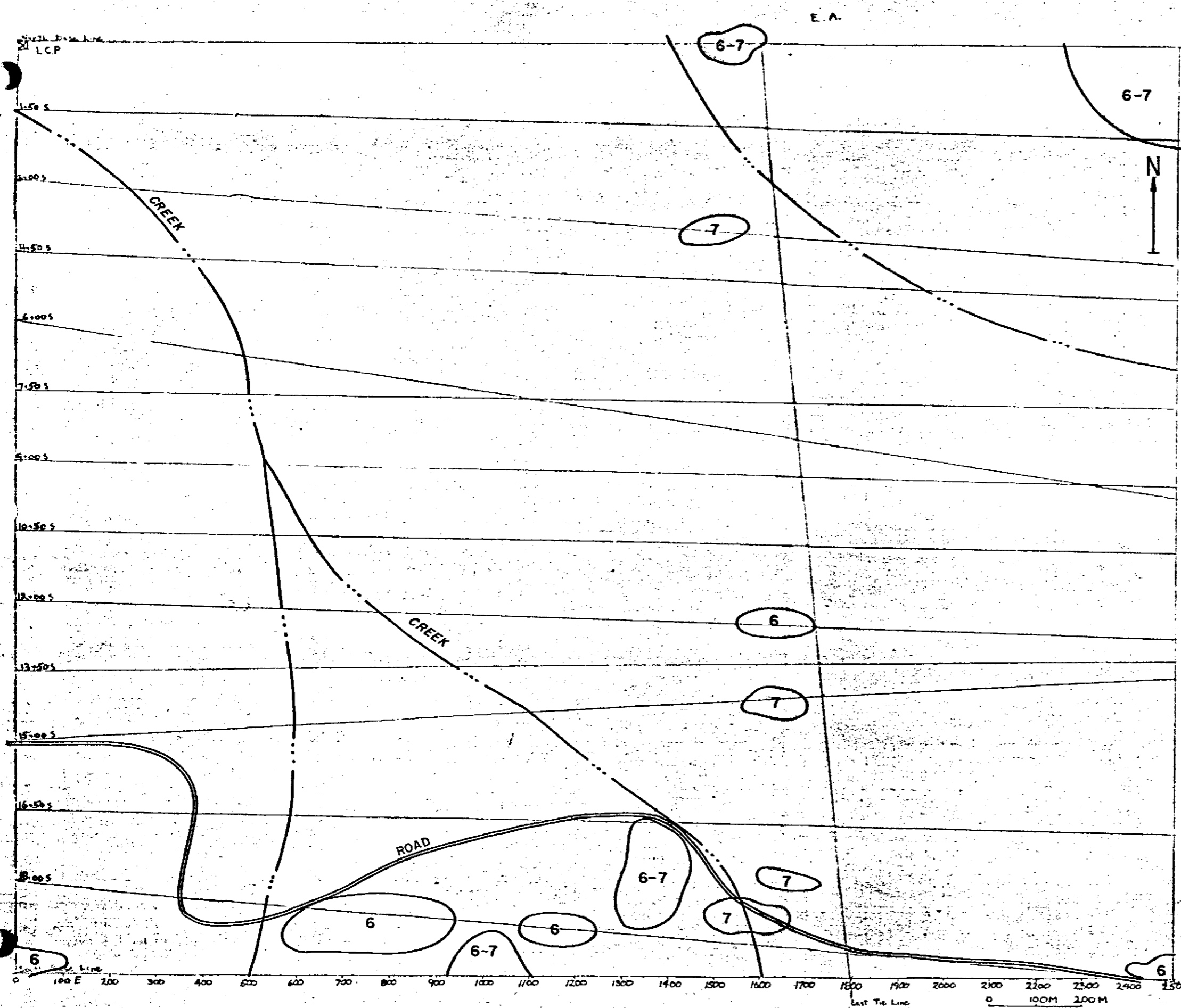
part 1  
of 2

LEGEND

- CONTOUR INTERVAL
- 10 ppm
  - 15 ppm
  - 20 ppm

GEOCHEMICAL SURVEY  
Ni ppm  
EA CLAIM (20)  
TUSCALOOSA OIL & GAS INC.  
Similkameen Mining Division  
NTS 92H/8  
49°15' N. Lat. 120°11' W. Long.

SCALE  
1:10000



**LEGEND**

- CRETACEOUS**
- LOWER CRETACEOUS**
- KINGSVALE GROUP**
- 12a-b, 13  
12a, mainly volcanic breccia; 12b, mainly andesite and basalt porphyry  
13, Andesite and basalt porphyry and volcanic breccia
- SPENCE BRIDGE GROUP**
- 10  
Hard, reddish andesite and basalt
- JURASSIC (?) AND CRETACEOUS**
- UPPER JURASSIC (?) AND LOWER CRETACEOUS**
- DEWDNEY CREEK GROUP**
- 9  
Tuff, volcanic breccia, grit, argillite; 9a, mainly conglomerate
- JURASSIC OR LATER**
- 8  
**COPPER MOUNTAIN INTRUSIONS:** syenogabbro, augite diorite, pegmatite
- 5, 6, 7  
**COAST INTRUSIONS:** 5, grey, slightly gneissic granodiorite; 6, mainly reddish, coarse-grained, siliceous granite and granodiorite; 7, light coloured granodiorite, quartz diorite, and gabbro
- 4  
Peridotite, pyroxenite, gabbro
- TRIASSIC**
- UPPER TRIASSIC**
- NICOLA GROUP**
- 3  
Varicoloured lava; argillite, tuff, limestone; chlorite and sericite schist
- CARBONIFEROUS OR LATER**
- 2  
**BRADSHAW, INDEPENDENCE, SHOEMAKER, and OLD TOM FORMATIONS:** cherty and slaty argillite, green andesite, limestone; quartz-mica schist and gneiss
- PALAEOZOIC**
- HOZAMEEN GROUP**
- 1  
Chert, green andesite, limestone

**GEOLOGY**

EA CLAIM (20)  
TUSCALOOSA OIL & GAS INC.  
Similkameen Mining Division  
NTS 92H/8  
49°15' N. Lat. 120°11' W. Long.

