

E148

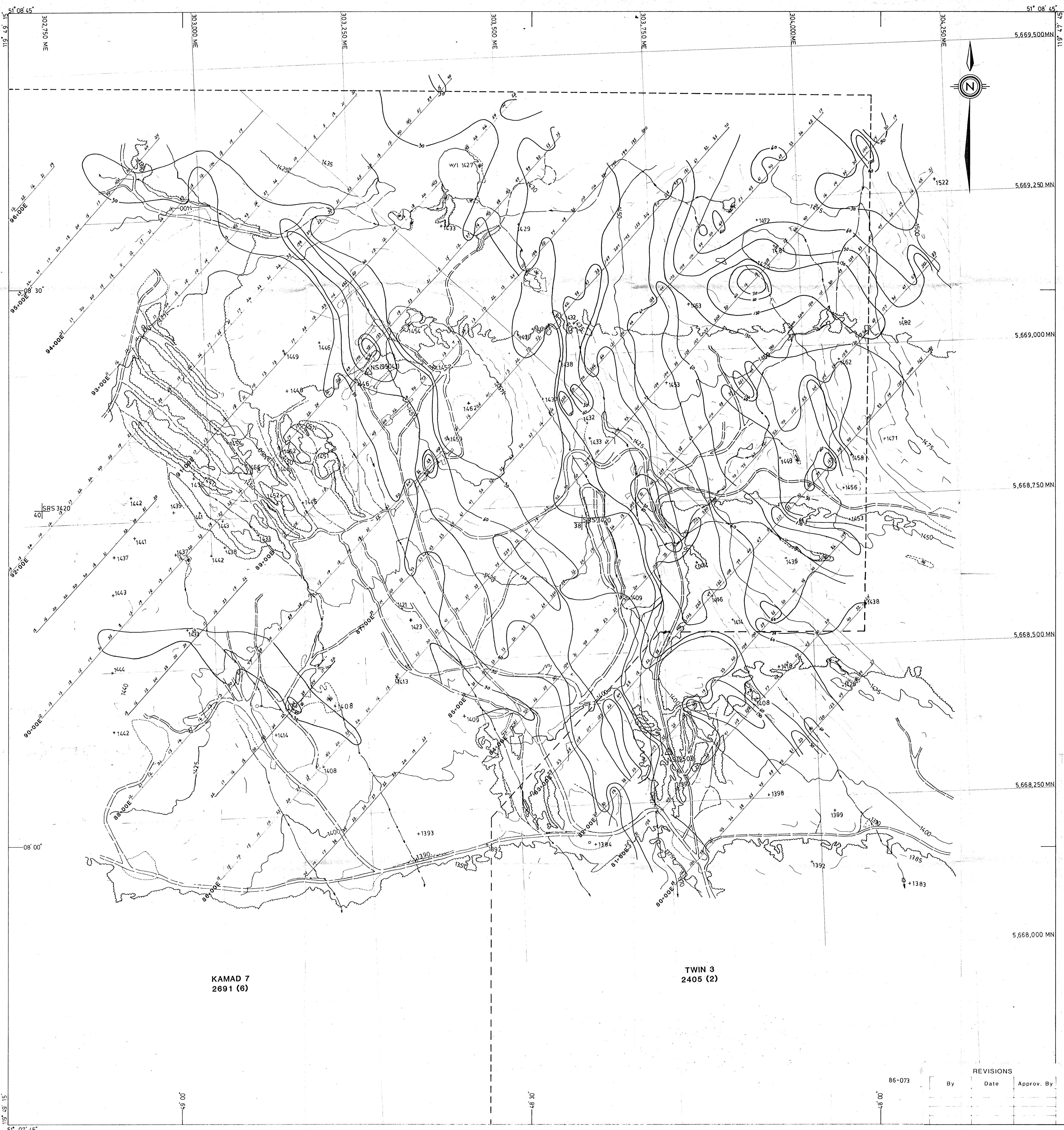
15754

PART 2 OF 2

FINAL REPORT
F.A.M.E. GRANT 10962-E
KAMAD CLAIMS
Kamloops Mining Division
NTS: 82M/4W
Lat: 51°08'N Long: 119°49'W
ESSO RESOURCES CANADA LIMITED
Volume II of II

Oliver, Marr

October 1986



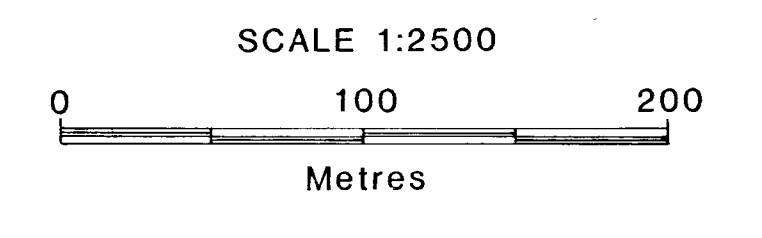
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754

PART 2 OF 2

- LEGEND**
- Cut Grid Lines
 - Roads
 - Edge Of Clear Cut
 - Stream

Note: The Kamad 7 north boundary was established by B.C.L. Survey. The Twin 3 boundary was established by hip-chain and compass.



KAMAD 7
2691 (6)

TWIN 3
2405 (2)

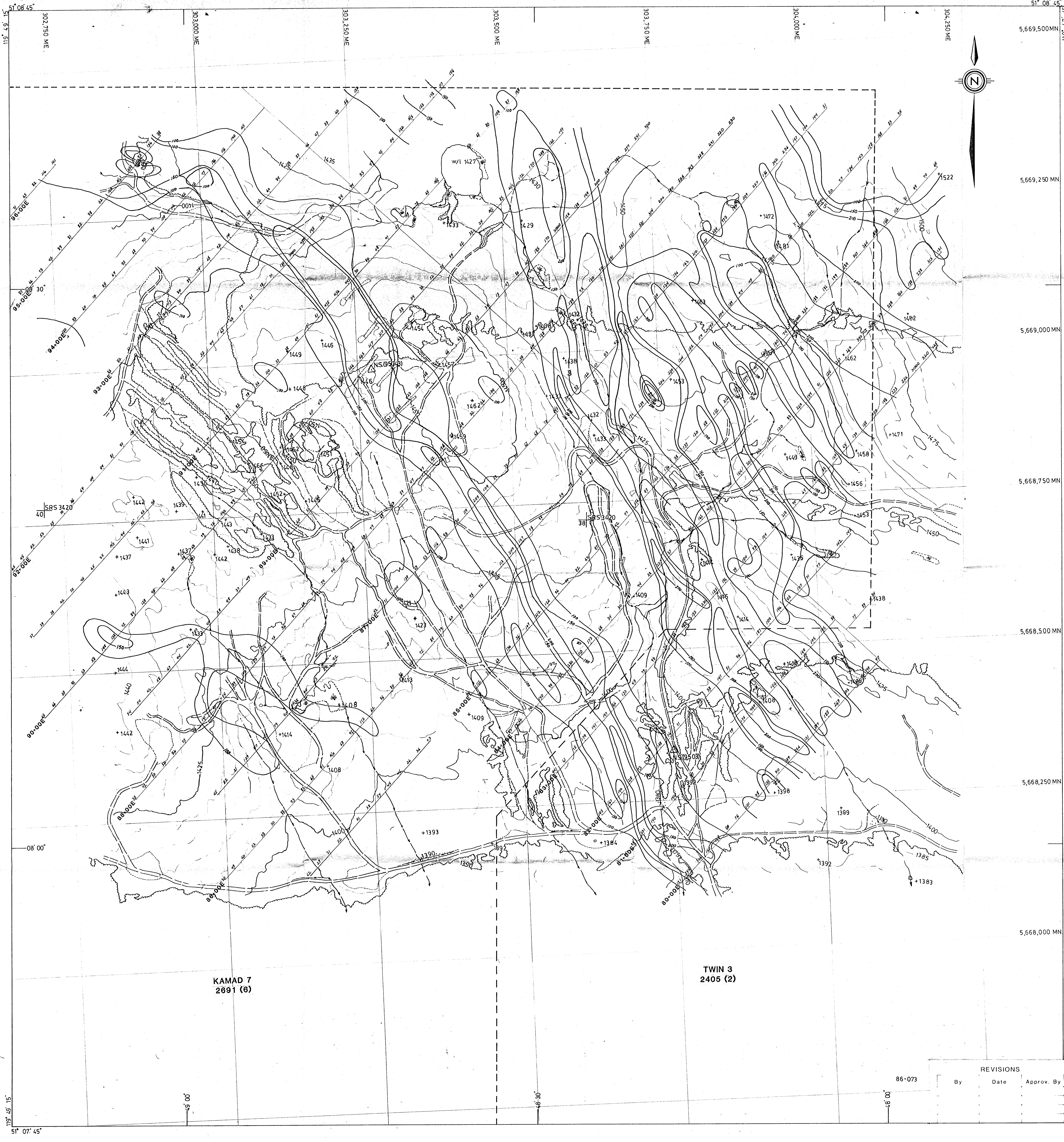
ESSO MINERALS CANADA

**KAMAD 7
"B" HORIZON SOIL GEOCHEMISTRY
LEAD (PPM)
Contour Interval: 30, 60, 130**

To accompany a report by J.O., J.M., & Z.D.			
Project No:	MA07	Report No:	
Mining Div:	Kamloops	NTS:	82M/4W
Survey By:	J. Oliver	Drafted By:	M.R.
Date:	Oct. 1986	Map No.:	4

REVISIONS

By	Date	Apprv. By



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

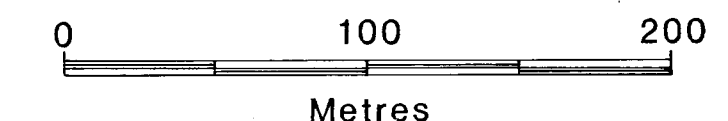
**15,754
PART 2 OF 2**

LEGEND

- Cut Grid Lines
- Roads
- Edge Of Clear Cut
- Stream

Note: The Kamad 7 north boundary was established by B.C.L. Survey. The Twin 3 boundary was established by hip-chain and compass.

SCALE 1:2500



ESSO MINERALS CANADA

**KAMAD 7
"B" HORIZON SOIL GEOCHEMISTRY
ZINC (PPM)
Contour Interval: 100, 150, 200**

REVISIONS

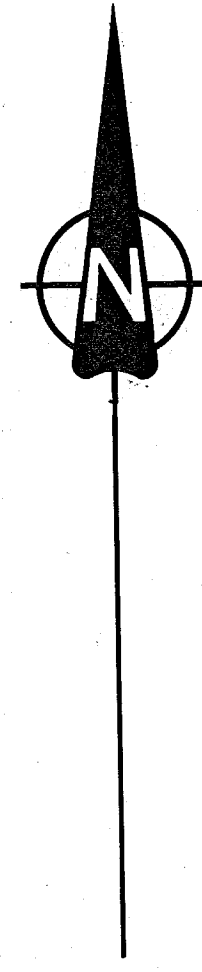
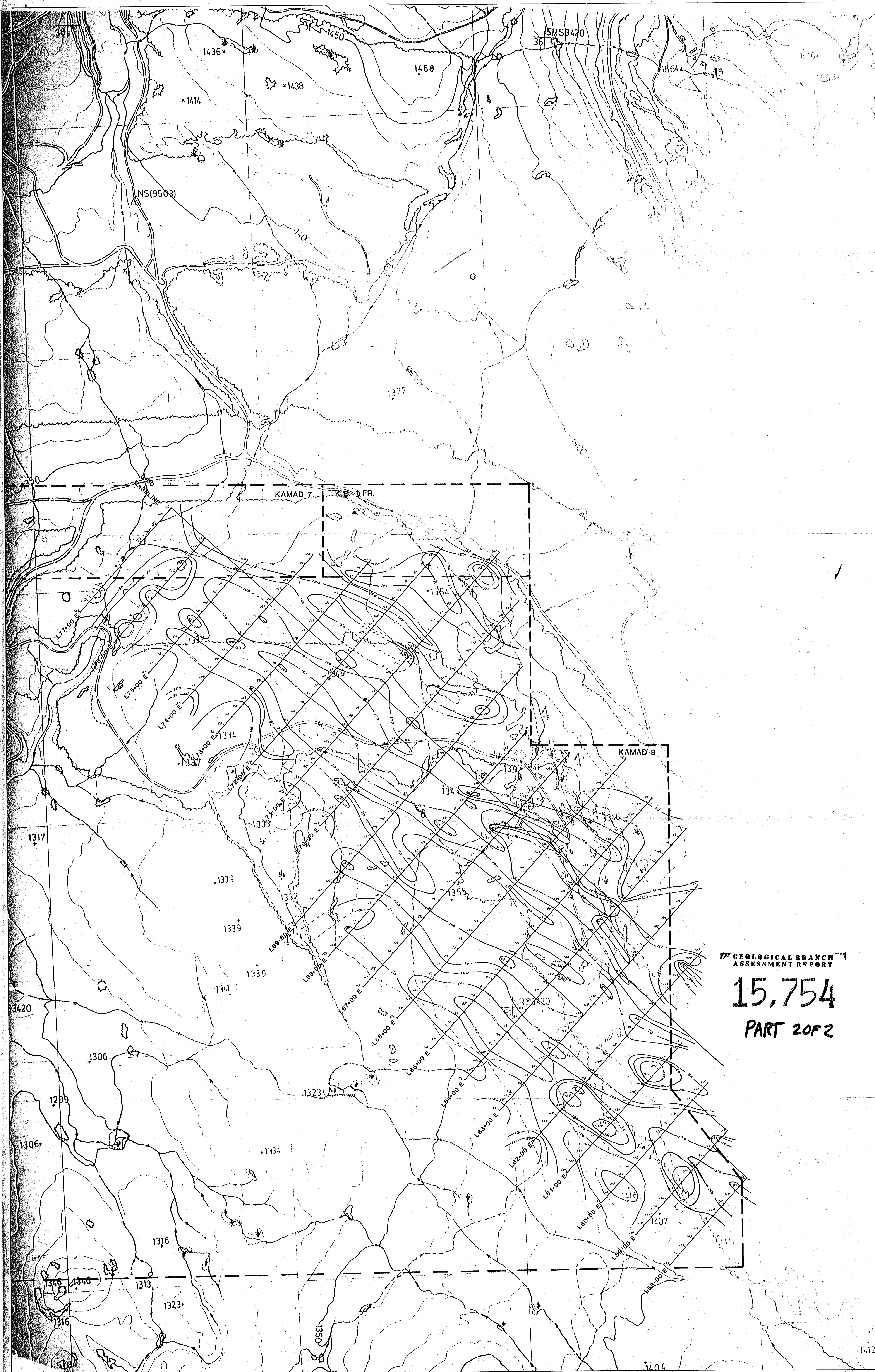
By	Date	Apprv. By

To accompany a report by J.O., J.M., & Z.D.	
Project No: MA07	Report No:
Mining Div: Kamloops	NTS: 82M/4W
Survey By: J. Oliver	Drafted By: M.R.
Date: Oct. 1986	Map No: 5

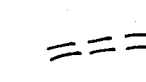



86-073

KAMAD 7
2691 (6)

TWIN 3
2405 (2)



LEGEND

-  Logging Road
-  Grid Line
-  Claim Boundary
-  Stream

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754

PART 2 OF 2

Scale 1:2500

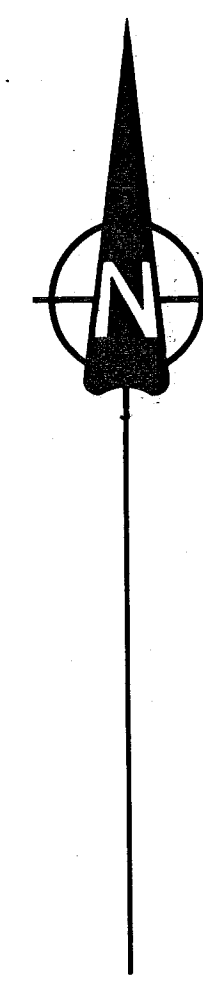
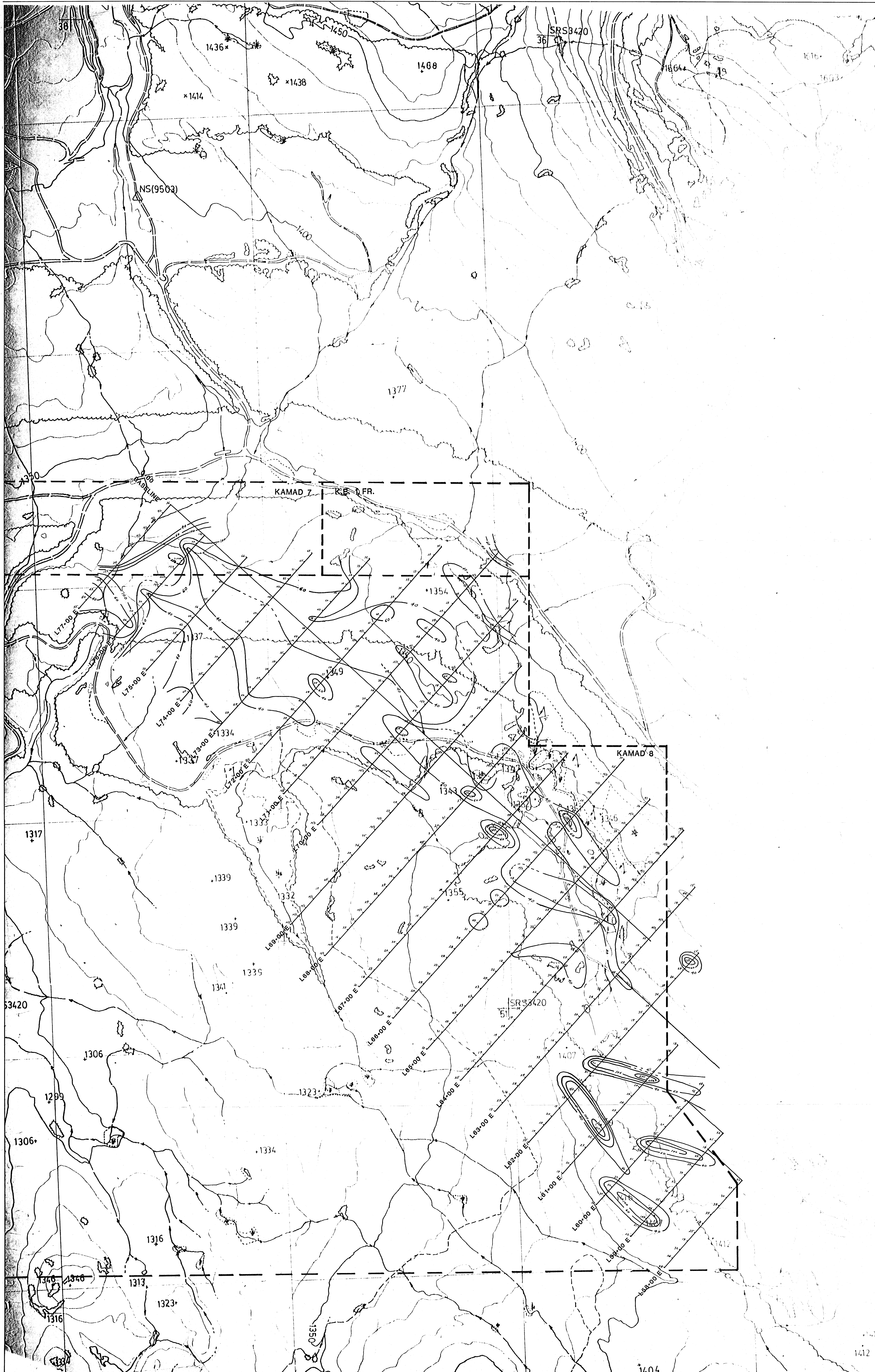


ESSO MINERALS CANADA

**KAMAD 8 PROPERTY
"B" HORIZON SOIL GEOCHEMISTRY**

**ZINC (PPM)
CONTOUR INTERVAL: 70, 100, 150,
180, 300**

To accompany a report by J.Oliver	
PROJECT No. MA07	MINING DIVISION KAMLOOPS
W.T.S. No. 82M/4W	DRAWN BY M.Reed
DATE October, 1986	MAP No. 21

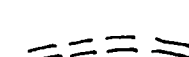

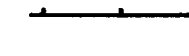



GEOLOGICAL BRANCH
ASSESSMENT REPORT

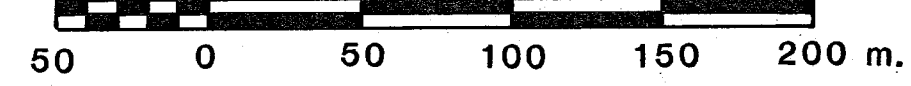
15,754

PART 2 OF 2

LEGEND

-  Logging Road
-  Grid Line
-  Claim Boundary
-  Stream

Scale 1:2500



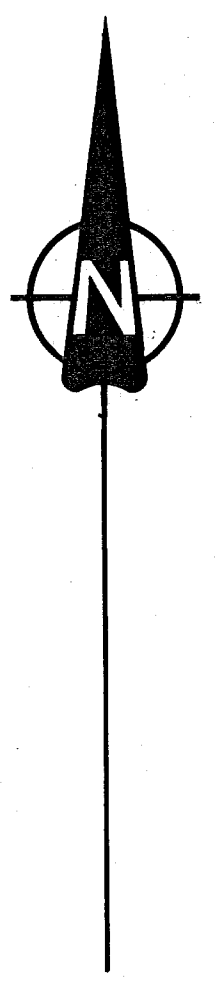
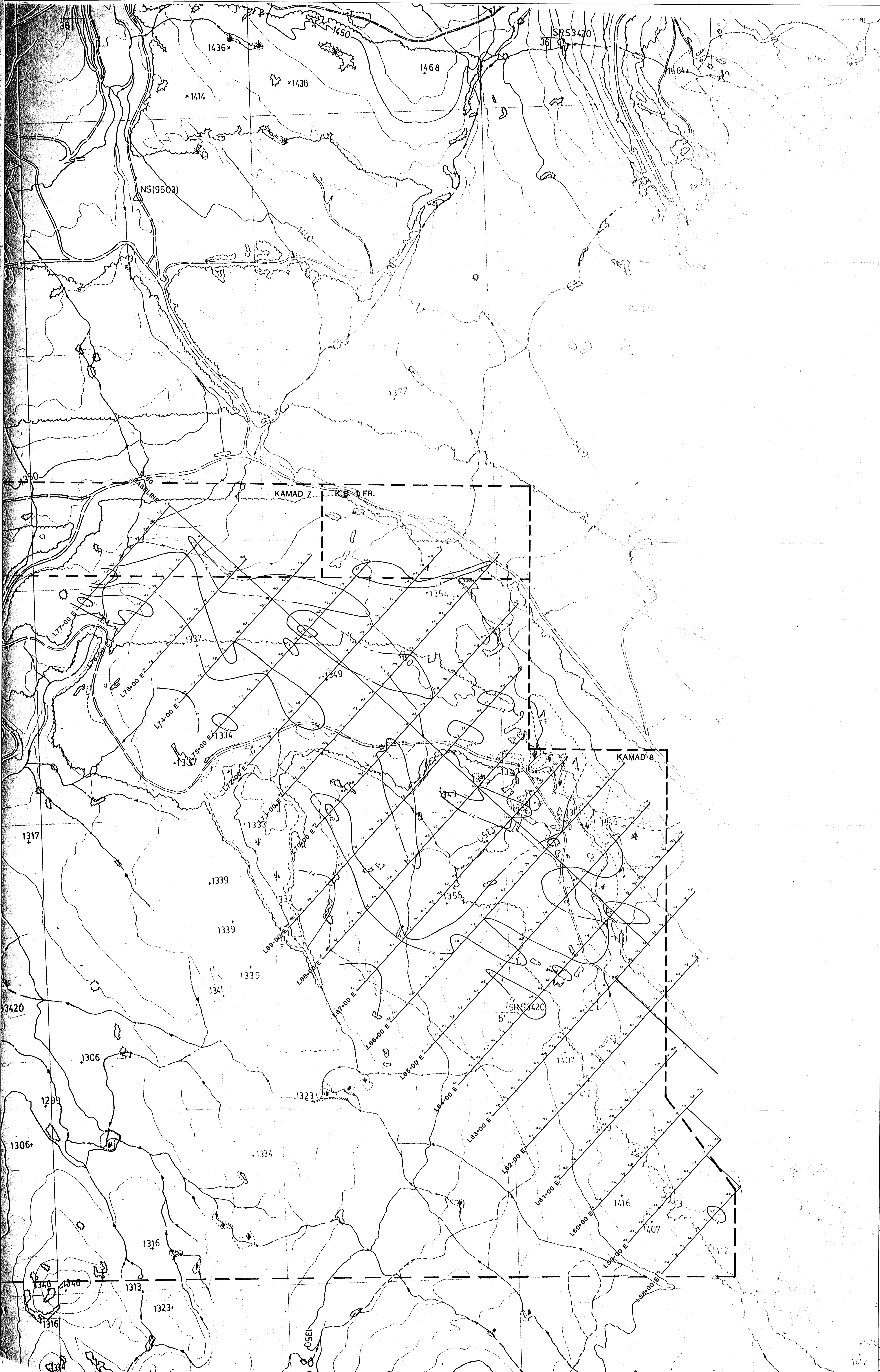
ESSO MINERALS CANADA

KAMAD 8 PROPERTY

"B" HORIZON SOIL GEOCHEMISTRY

LEAD (PPM)
CONTOUR INTERVAL: 40, 60, 100, 250

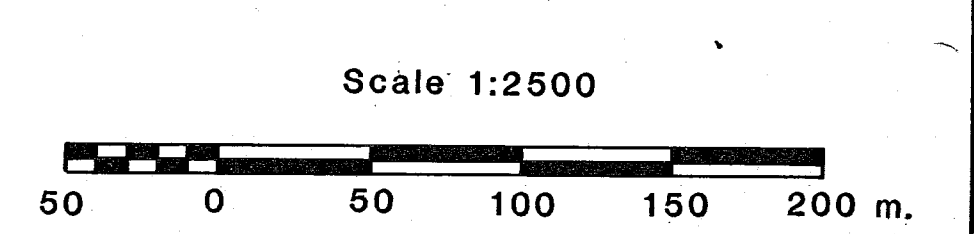
To accompany a report by J.Oliver	
PROJECT No. MA07	MINING DIVISION KAMLOOPS
S.Y.S. No. 82M/4W	DRAWN BY M.Reed
DATE October, 1986	MAP No. 22



GEOLOGICAL BRANCH
ASSESSMENT
15,754
PART 2 OF 2

LEGEND

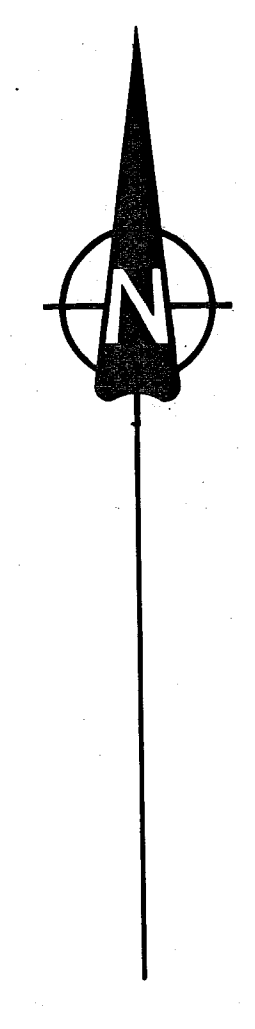
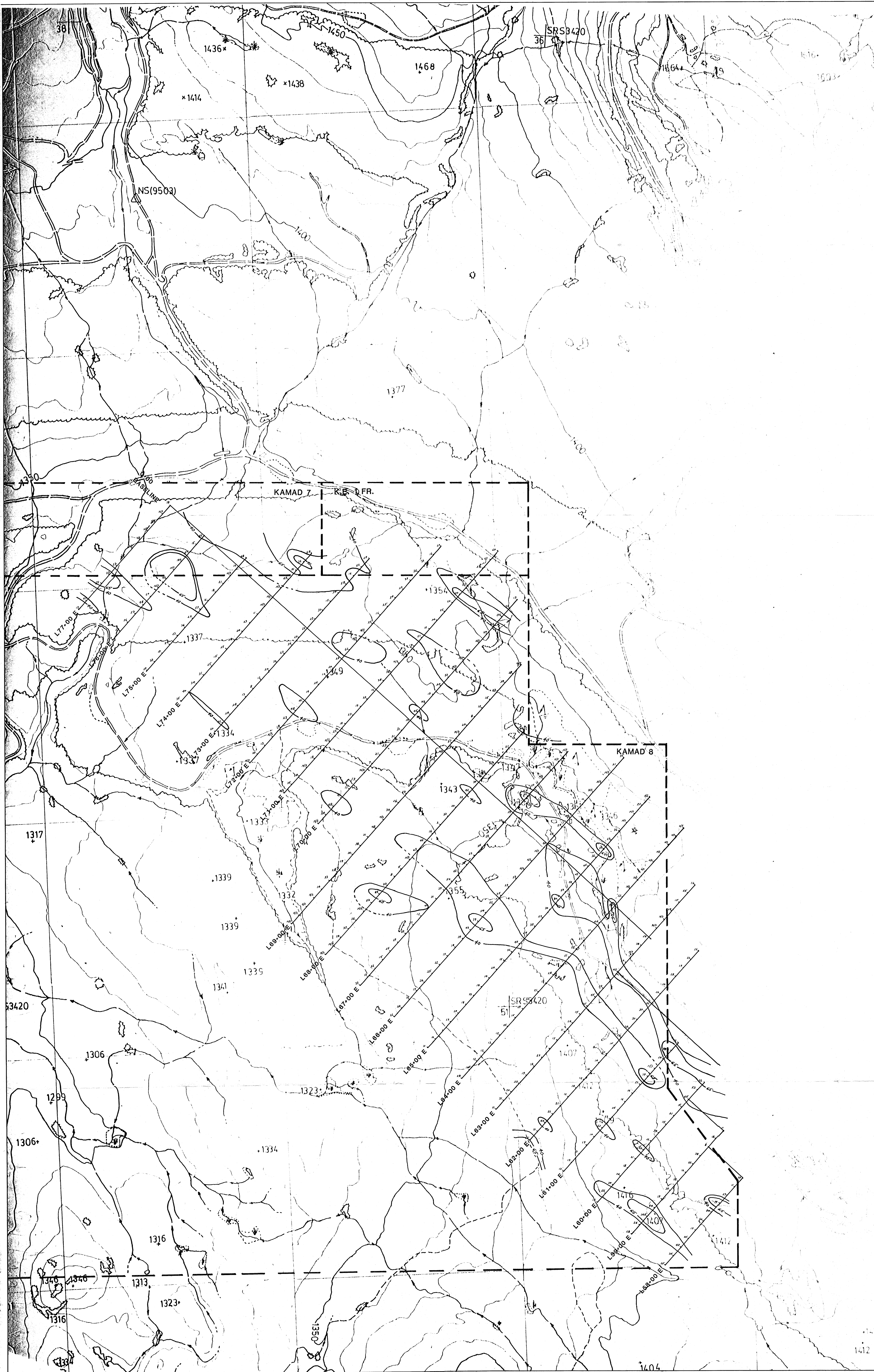
- Logging Road
- Grid Line
- Claim Boundary
- Stream



ESSO MINERALS CANADA

KAMAD 8 PROPERTY
"B" HORIZON SOIL GEOCHEMISTRY
SILVER (PPM)
CONTOUR INTERVAL: 1.2, 2.0

To accompany a report by J.Oliver	
PROJECT No. MA07	MINING DIVISION KAMLOOPS
N.T.S. No. 82M/4W	DRAWN BY M.Reed
DATE October, 1986	MAP No. 23



- LEGEND**
- Logging Road
 - Grid Line
 - Claim Boundary
 - Stream

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754
PART 2 OF 2

Scale 1:2500

ESSO MINERALS CANADA

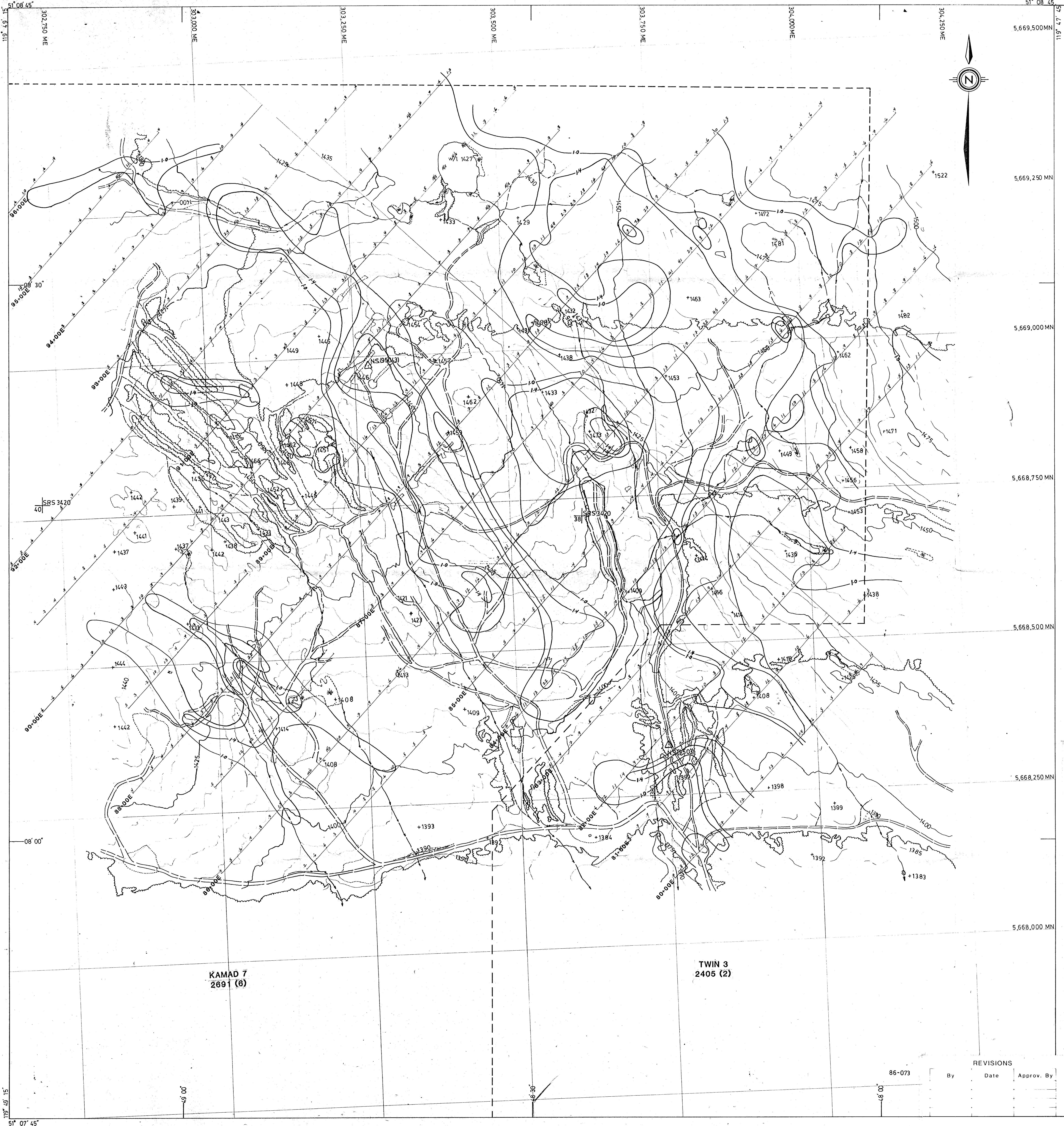
KAMAD 8 PROPERTY
"B" HORIZON SOIL GEOCHEMISTRY

COPPER (PPM)
CONTOUR INTERVAL: 40, 65

In accordance with report by J. Oliver	
PROJECT No. MA07	MINING DIVISION KAMLOOPS
N.T.S. No. 82M/4W	DRAWN BY M. Reed
DATE October, 1986	MAP No. 24

1412

1404



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

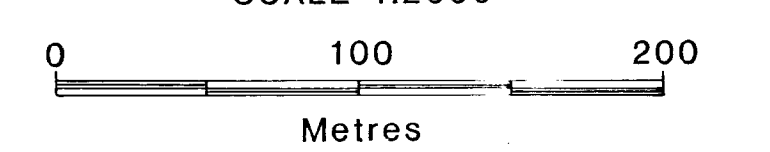
**15,754
PART 2 OF 2**

LEGEND

- Cut Grid Lines
- Roads
- Edge Of Clear Cut
- Stream

Note: The Kamad 7 north boundary was established by B.C.L. Survey. The Twin 3 boundary was established by hip-chain and compass.

SCALE 1:2500



KAMAD 7
2691 (8)

TWIN 3
2405 (2)

ESSO MINERALS CANADA

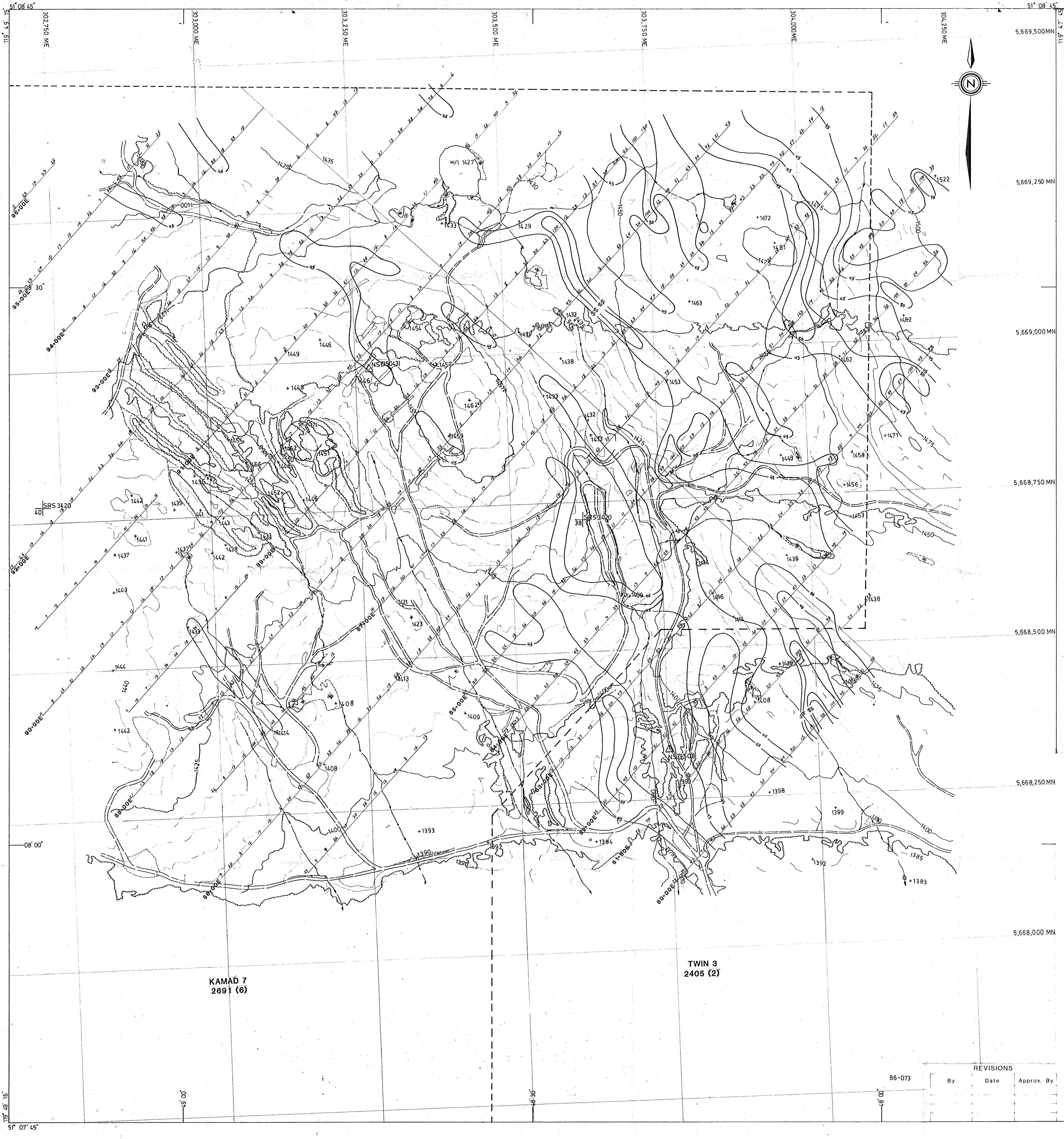
**KAMAD 7
"B" HORIZON SOIL GEOCHEMISTRY
SILVER (PPM)
Contour Interval: 1.0, 1.4**

To accompany a report by J.O., J.M., Z.D.			
Project No:	MA07	Report No:	
Mining Div:	Kamloops	NTS	82M/4W
Survey By:	J. Oliver	Drafted By:	M.R.
Date:	Oct. 1986	Map No:	6

REVISIONS

By _____ Date _____

86-073



GEOLOGICAL BRANCH
ASSESSMENT REPORT

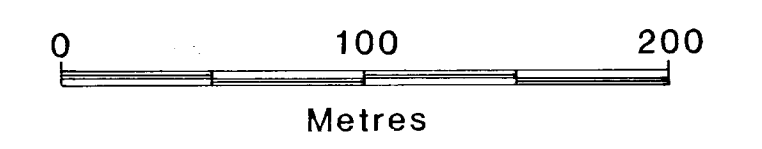
15,754
PART 2 OF 2

LEGEND

- Cut Grid Lines
- Roads
- Edge Of Clear Cut
- Stream

Note: The Kamad 7 north boundary was established by B.C.L. Survey. The Twin 3 boundary was established by hip-chain and compass.

SCALE 1:2500



KAMAD 7
2691 (6)

TWIN 3
2405 (2)

86-073

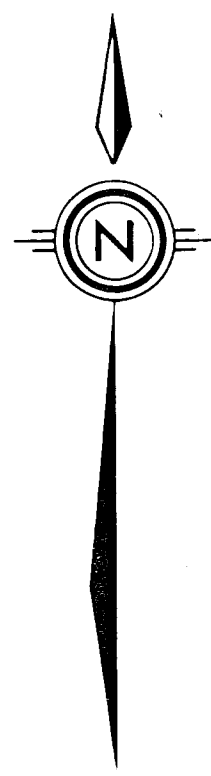
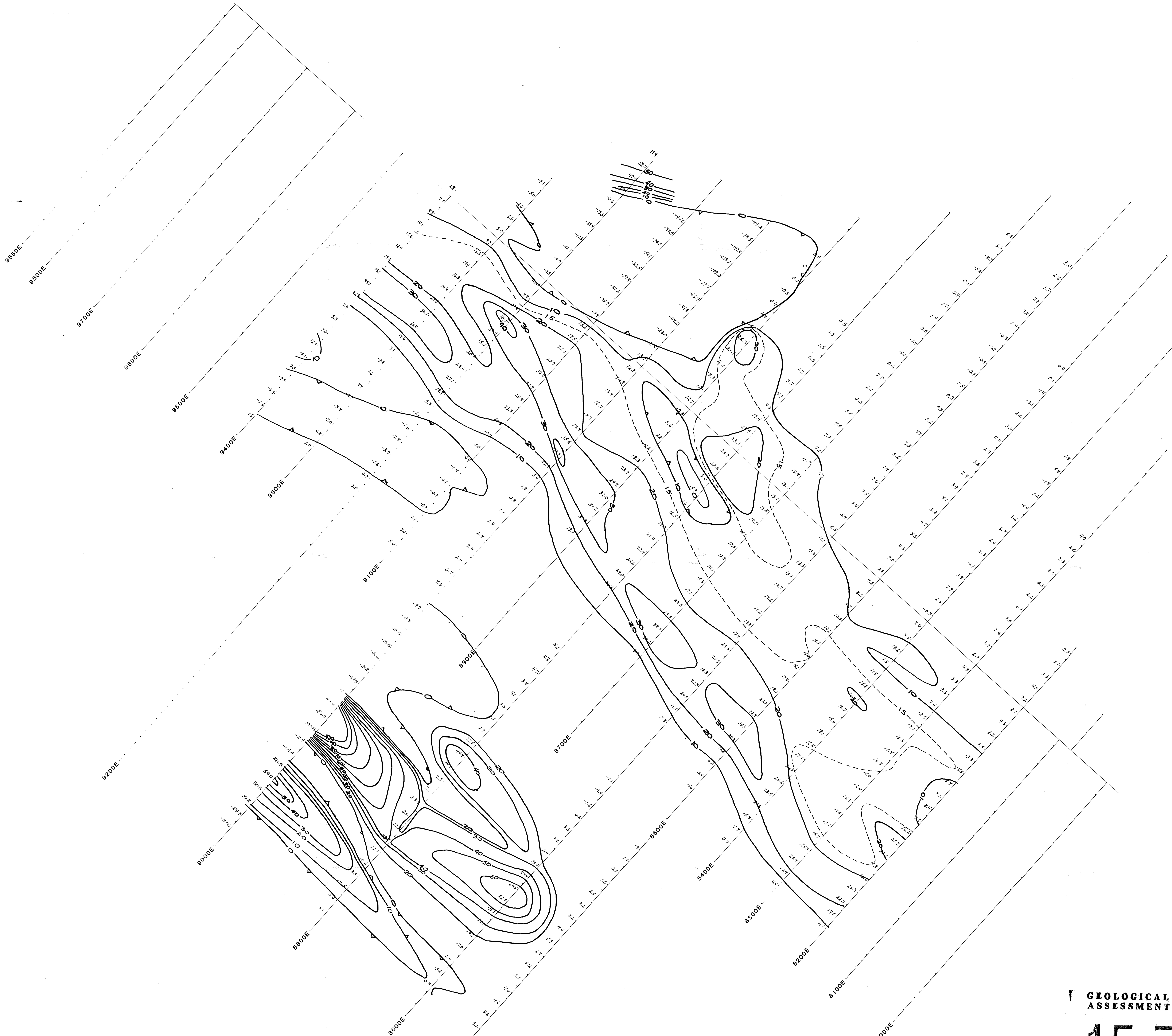
REVISIONS

By	Date	Apprv. By

ESSO MINERALS CANADA

KAMAD 7
"B" HORIZON SOIL GEOCHEMISTRY
COPPER (PPM)
Contour Interval: 45, 80

To accompany a report by J.O., J.M., Z.D.	
Project No: MA07	Report No:
Mining Div: Kamloops	NTS: 82M/4W
Survey By: J. Oliver	Drafted By: M.R.
Date: Oct. 1986	Map No: 7



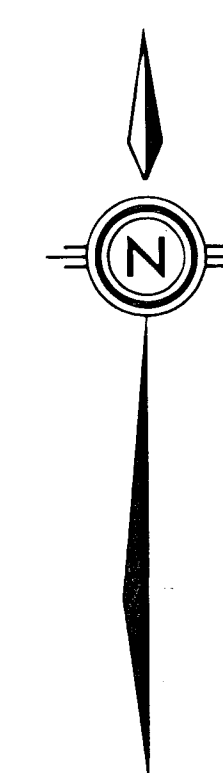
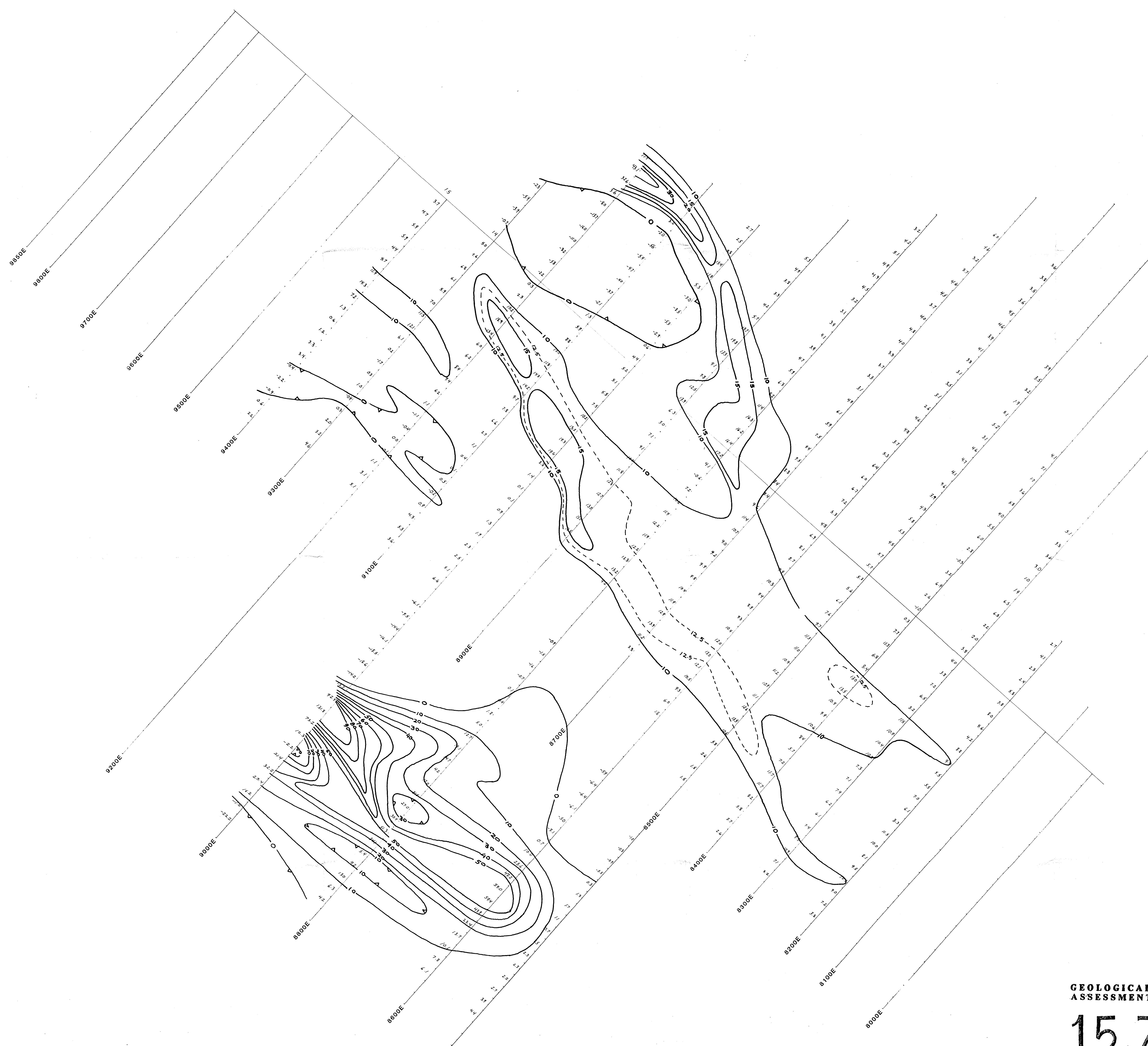
GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,754
PART 2 OF 2

SCALE 1:2500
0 50 100 200
Metres

ESSO MINERALS CANADA
KAMAD 7
LARGE LOOP
FIXED SOURCE GENIE
Fraser Filtered
Contour Map Of
3037.5/37.5 Hz.

Project Number: MA07	Mining Division: Kamloops
NTS: 82M/4W	Drawn By: S.L.
Date: Oct. 1986	Map Number: 11



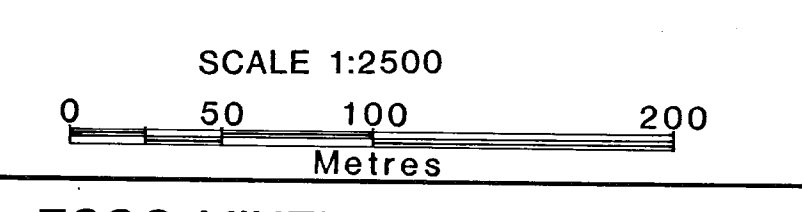
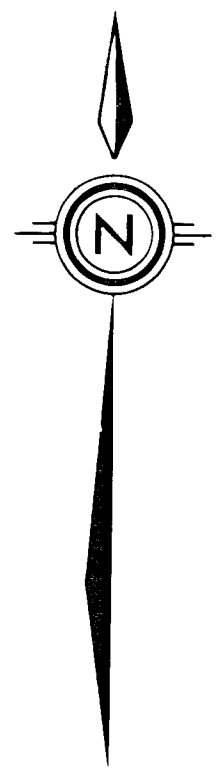
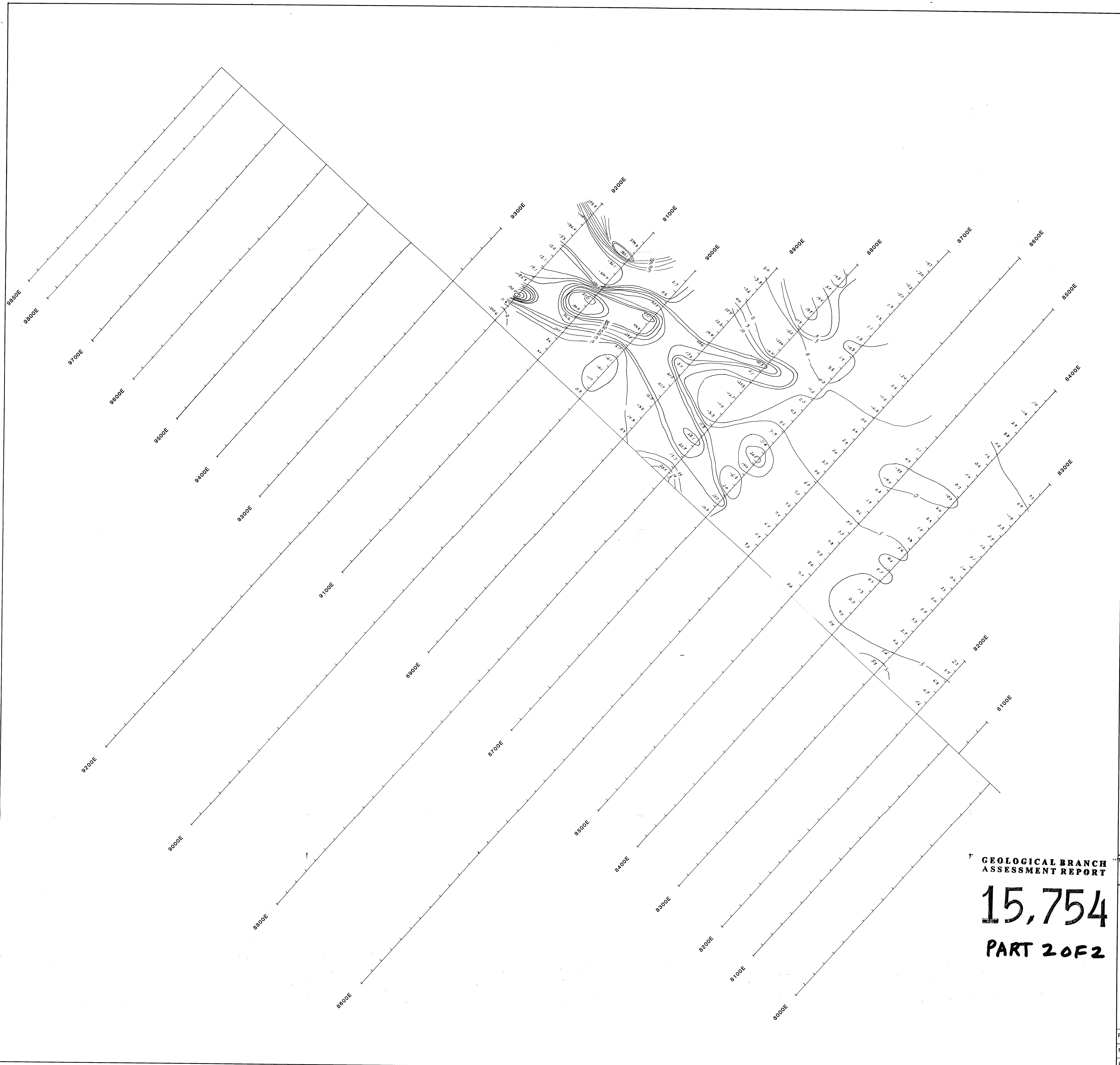
SCALE 1:2500
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 Metres

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

15,754
PART 2 OF 2

ESSO MINERALS CANADA
 KAMAD 7
 LARGE LOOP
 FIXED SOURCE GENIE
 Fraser Filtered
 Contour Map Of
 1012/37.5 Hz.

Project Number: MA07	Mining Division: Kamloops
NTS: 82M//4W	Drawn By: S.L.
Date: Oct. 1986	Map Number: 12



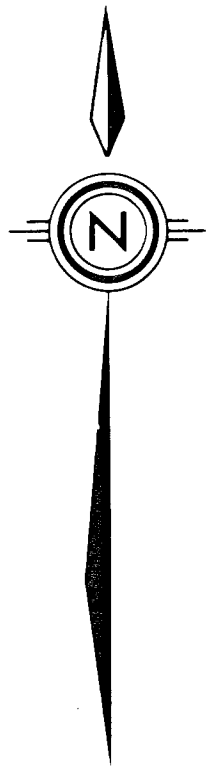
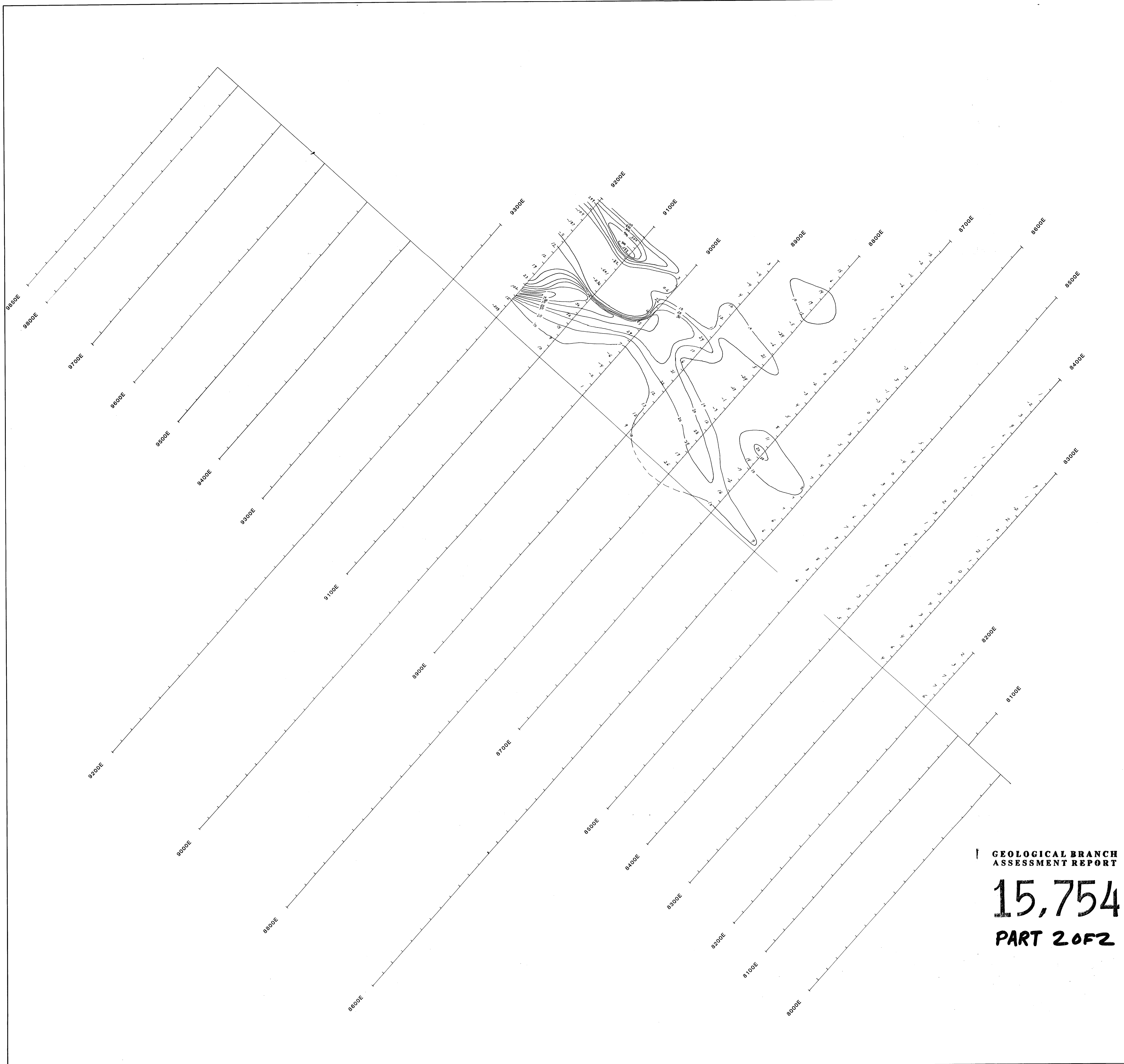
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754
PART 2 OF 2

ESSO MINERALS CANADA
A DIVISION OF ESSO RESOURCES CANADA LIMITED

KAMAD 7 GRID
GROUNDWIRE
FIXED SOURCE GENIE
Fraser Filtered Contour Map Of
1012/37.5 Hz.

PROJECT NO. MA07	MINING DIVISION Kamloops
NTS 82M/4W	DRAWN BY: S.L.
DATE Oct. 1988	MAP NO. 9



SCALE 1:2500
 0 50 100 200
 Metres

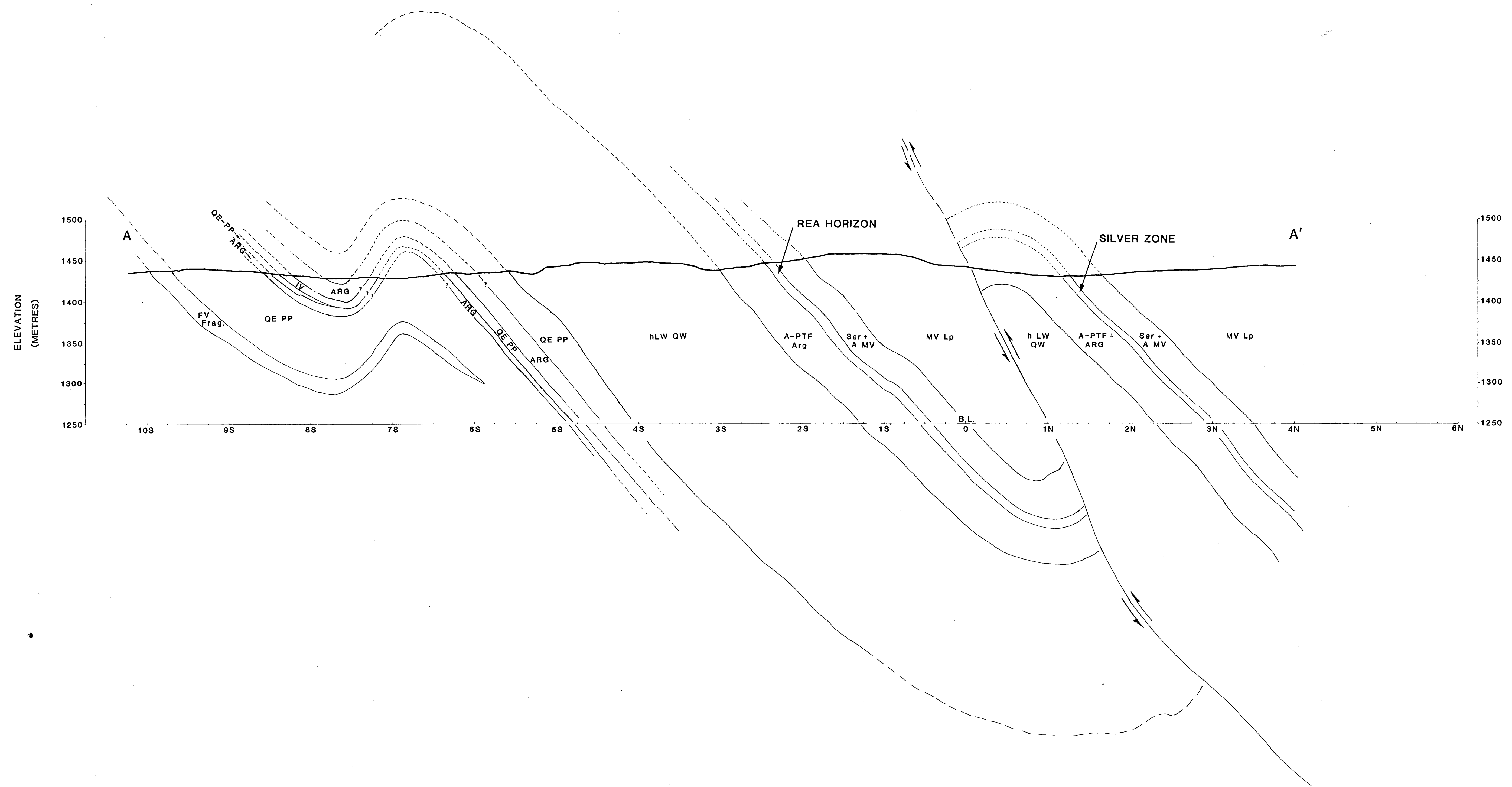
**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

**15,754
 PART 2 OF 2**

ESSO MINERALS CANADA
 A DIVISION OF ESSO RESOURCES CANADA LIMITED

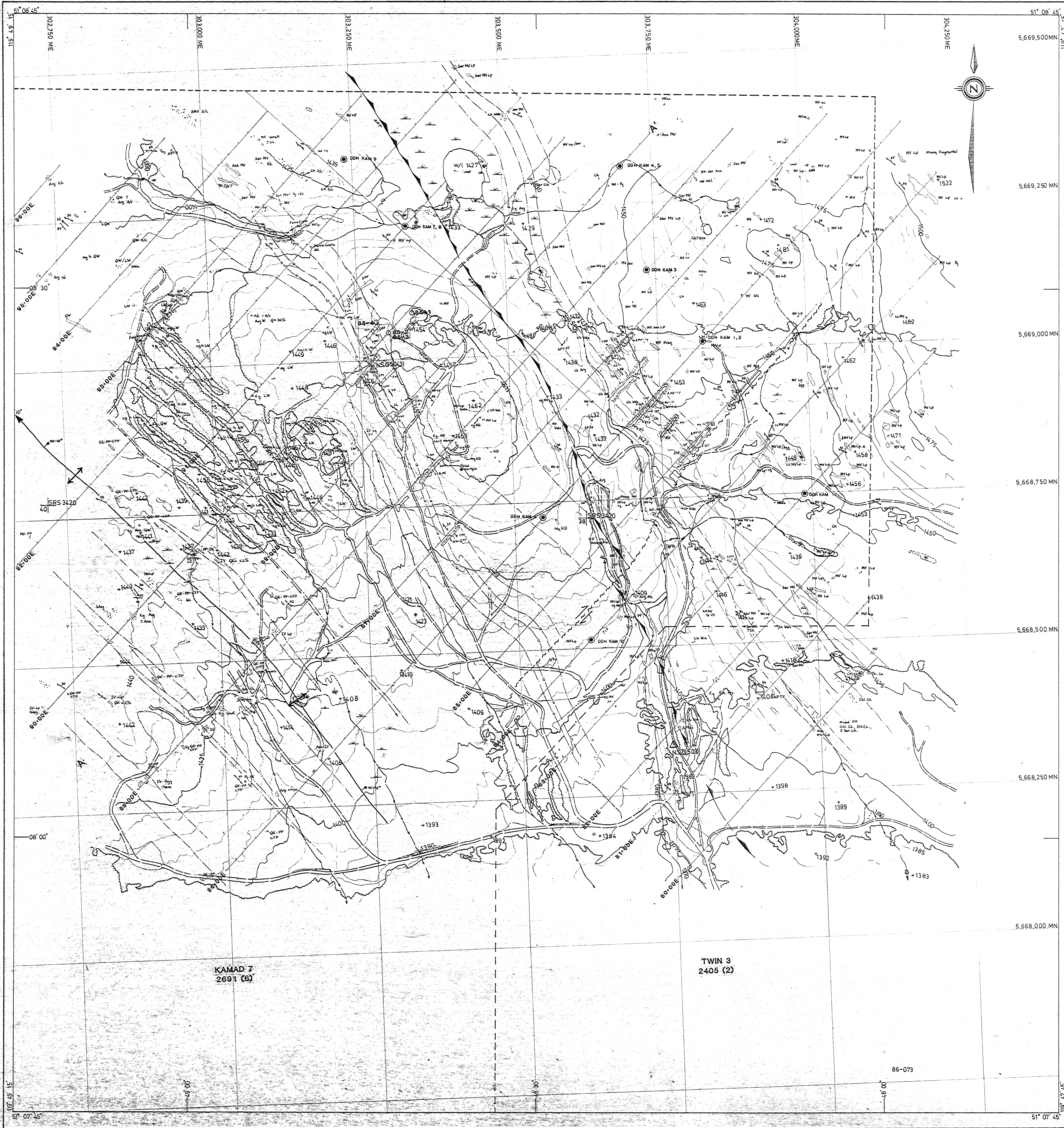
KAMAD 7 GRID
 GROUNDED WIRE
 FIXED SOURCE GENIE
 Fraser Filtered Contour Map Of
 3037.5/37.5 Hz.

PROJECT NO. MA07	MINING DIVISION Kamloops
NTS 82M/14W	DRAWN BY: S.L.
DATE Oct. 1986	MAP NO. 8



ESSO MINERALS CANADA
KAMAD 7
STATIGRAPHIC CROSS SECTION - L89E
Looking Northwest

Project No. MA07	Mining Div. Kamloops
NTS: 84M/4	Drawn By: J.O.
Date: Aug. 12, 1986	Map No. 3



- PLEISTOCENE TO RECENT**
- Overburden and Glacial Alluvium - Coarse boulder till. Highly variable in thickness to 10 meters.
- UNCONFORMITY**
- MAFIC INTRUSIONS**
- HD Porphyritic Diorite - Weakly foliated, porphyritic plagioclase and hornblende diorite.
- FOLDING & FAULTING**
- DEVONIAN, MISSISSIPPIAN & OLDER**
- CLASTIC SEDIMENTS**
- WA Metrolithic Wacke - Poorly sorted, medium to coarse grained sediment. Distinctive aesthetically chips, chert pebbles, argillite fragments, quartz pebbles and minor volcanic clasts embayed within a dark fine grained matrix.
 - HLW Quartz Wacke - Well sorted fine to medium quartz rich sediment and grits.
 - QW Siltstone and Argillite - Well bedded dark grey to black siltite. Diagenetic pyrite constrained to 1.0 - 3.0 cm Py buff weathering interbeds.
 - Arg Siltstone and Argillite - Well bedded dark grey to black siltite. Diagenetic pyrite constrained to 1.0 - 3.0 cm Py buff weathering interbeds.
- PYRITIC TUFF-ANKERITIC TUFF**
- PTF Fine grained, dull grey brown volcanoclastic and P.g. pyroclastic lithologies. Fragments (clasts) may exceed 1.0 cm and may be silty concave and occasionally chloritized. Uniformly disseminated ankerite or pyrite may exceed 20-25% rock volume. Often weakly schistose.
- MASSIVE SULPHIDE**
- MS Weakly to moderately well bedded pyrite, arsenopyrite, sphalerite, galena and chalcopyrite. Sulphide lenses may locally develop baritic caps.
- CHERT-REA HORIZON**
- Ch Sericitic to Phyllic Chert - Pale cream, yellow cream to light grey chert, frequently siliceous. May contain fine grained volcanic detritus. The unit is characterized by its blocky bedding, foliation surfaces and high Py-AsPy contents 10-15%.
 - SCh Sericitic to Phyllic Chert - Pale cream, yellow cream to light grey chert, frequently siliceous. May contain fine grained volcanic detritus. The unit is characterized by its blocky bedding, foliation surfaces and high Py-AsPy contents 10-15%.
 - HCh Metrolithic Chert Breccia - Mixed, poorly sorted chert rich breccia, well preserved grain beds.
- MAFIC VOLCANICS**
- MV Sericitized - Pyritized P.g. Mafic Lapilli Tuff pale grey to buff arenaceous, pyroclastic, potassic silica addition and pyritization may obscure original lithology. Green mica occasionally noted.
 - SMV Carbonitized Mafic Lapilli Tuffa - Pervasively carbonitized lapilli pyroclastics.
 - COMVLP Mafic Lapilli Tuffa and Agglomerates - Relatively unaltered mafic pyroclastics. Fragments usually elongate, matrix supported and unimodal.
 - MVLP Mafic Lapilli Tuffa and Agglomerates - Relatively unaltered mafic pyroclastics. Fragments usually elongate, matrix supported and unimodal.
- FELSIC VOLCANICS**
- FV Quartz Eye - Plagioclase Crystal Tuffa - Well defined quartz eyes, angular to rounded, exceed 3x rock volume. While lightly sericitized felsic pyroclastics, are subrounded, 60-70% rock volume and surrounded by a pale yellow sericitic foliation. Py usually less than 2%, overall rock color pale cream to light green cream.
 - QE PP Felsic Agglomerates and Coarse Grained Lapilli Pyroclastics - Highly angular fragments containing quartz eyes are supported in a slightly more chloritic matrix. Fragments may be slightly more hematitic. Fragments frequently exceed 0.4 cm, and are usually subangular and unimodal.
- INTERMEDIATE VOLCANICS**
- IV Intermediate Flows - Fine grained well preserved phenocrystic textures, plagioclase, uniform, massive, no evidence of flow laminations or flow top breccias. Free quartz less than 2%.
 - IV FI Intermediate Felsic Pyroclastics - White weathering subrounded fragments typically occupy 40% rock volume and are matrix supported.
 - IV LP Intermediate Lapilli Pyroclastics - White weathering subrounded fragments typically occupy 40% rock volume and are matrix supported.

- STRUCTURAL INTERPRETATION**
- Several deformational fabrics and stratigraphic relations suggest the following:
- 1) An early deformational event, stratigraphic overprinting and the development of overturned antiforms and synforms which generally plunge NW at low, 10° angles. These structures are best identified through cleavage vergence data and best revealed within the sediments in the south central and south western portions of the map area. Regional foliations are axial planar to these structures.
 - 2) Stratigraphic repetition of the Rea Horizon is believed to be caused by a NE dipping thrust sheet, activated after the stratigraphy was overturned.
 - 3) Late dextral faults displace antiformal structures and the thrust sheet. This displacement is well defined by shifted alteration assemblages and by southward movement of the silver zone 50 meters in the east central portions of the map area.

- SYMBOLS**
- Attitude of Bedding
 - Attitude of Foliation
 - Trend of Linear Fabric
 - Fault Strike-slip
 - Thrust Fault
 - Antiform, Synform
 - Plunge Indicated, Ball Defines Orientation of Axial Surface
 - Outcrop Boundary
 - S/C = Subcrop
 - Boulders
 - Geological Contact, Defined, Approximate
 - Geological Contact Inferred from Geophysical Trace
 - Trace of Geological Cross Section
 - Diamond Drill Collar
 - Trench
 - Road
 - Topographic Contour
 - Point Datum
 - 4503 Air Photo Target
 - Vegetation Boundary
 - Swamp
 - Clash Boundary

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754
PART 2 OF 2

SCALE 1:2500
0 50 100 200 Metres

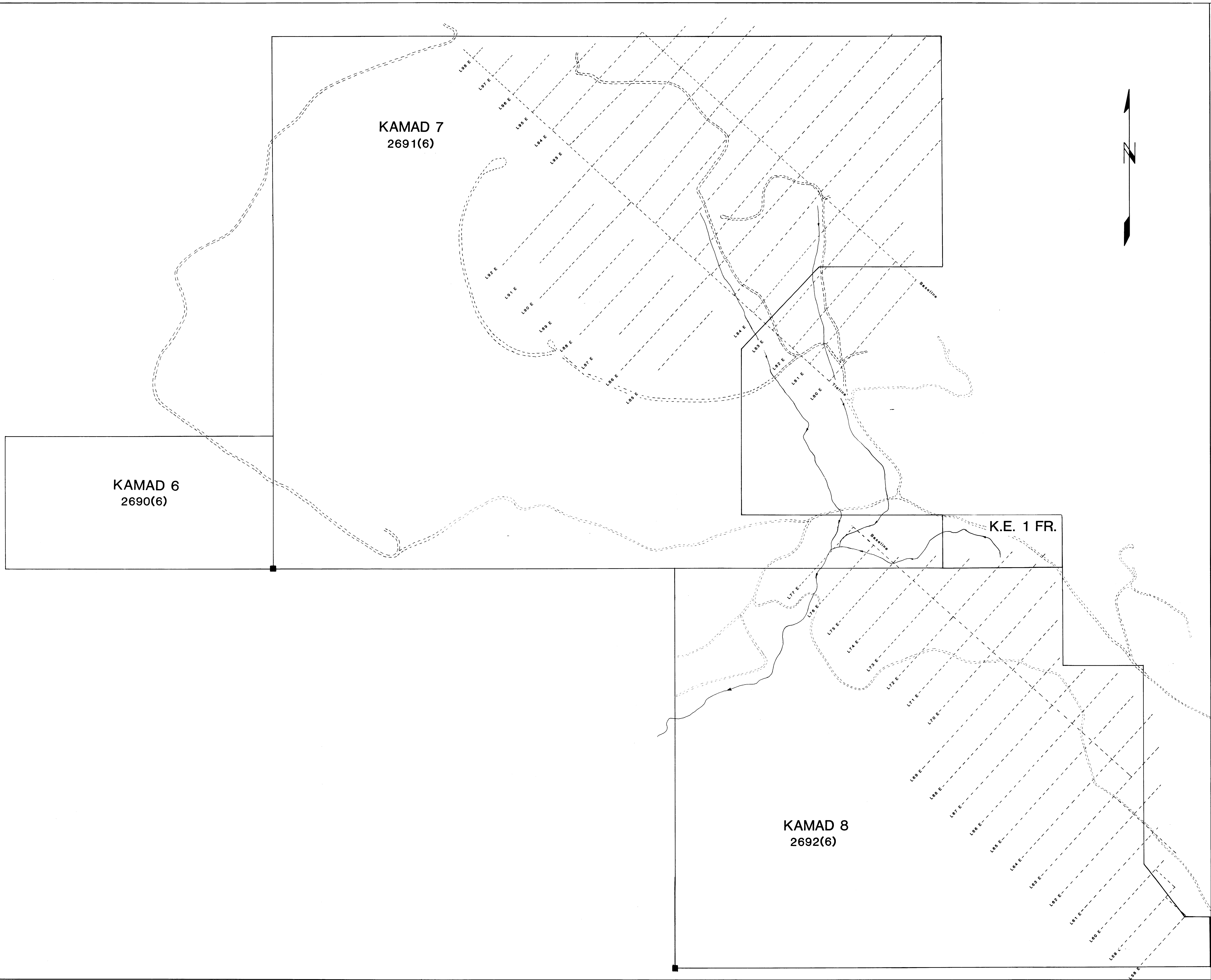
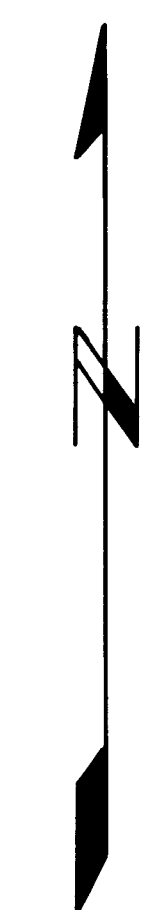
ESSO MINERALS CANADA

KAMAD 7 GEOLOGY

REVISIONS

By	Date	Approv. By

To accompany a report by J.O., J.M., +Z.D.	
Project No: MA07	Report No: 82M/4W
Mining Div: Kamloops	Drafted By: J.O.
Survey By: J. Oliver	Map No: 2
Date:	



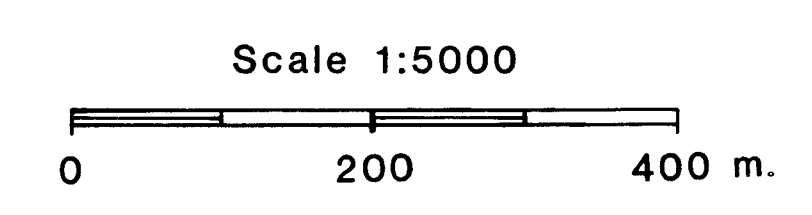
KAMAD 6
2690(6)

KAMAD 7
2691(6)

KAMAD 8
2692(6)

K.E. 1 FR.

- LEGEND
- - - - - Cut Grid Lines
 - ~ Stream
 - - - - - Logging Road
 - Legal Corner Post
 - Claim Boundaries

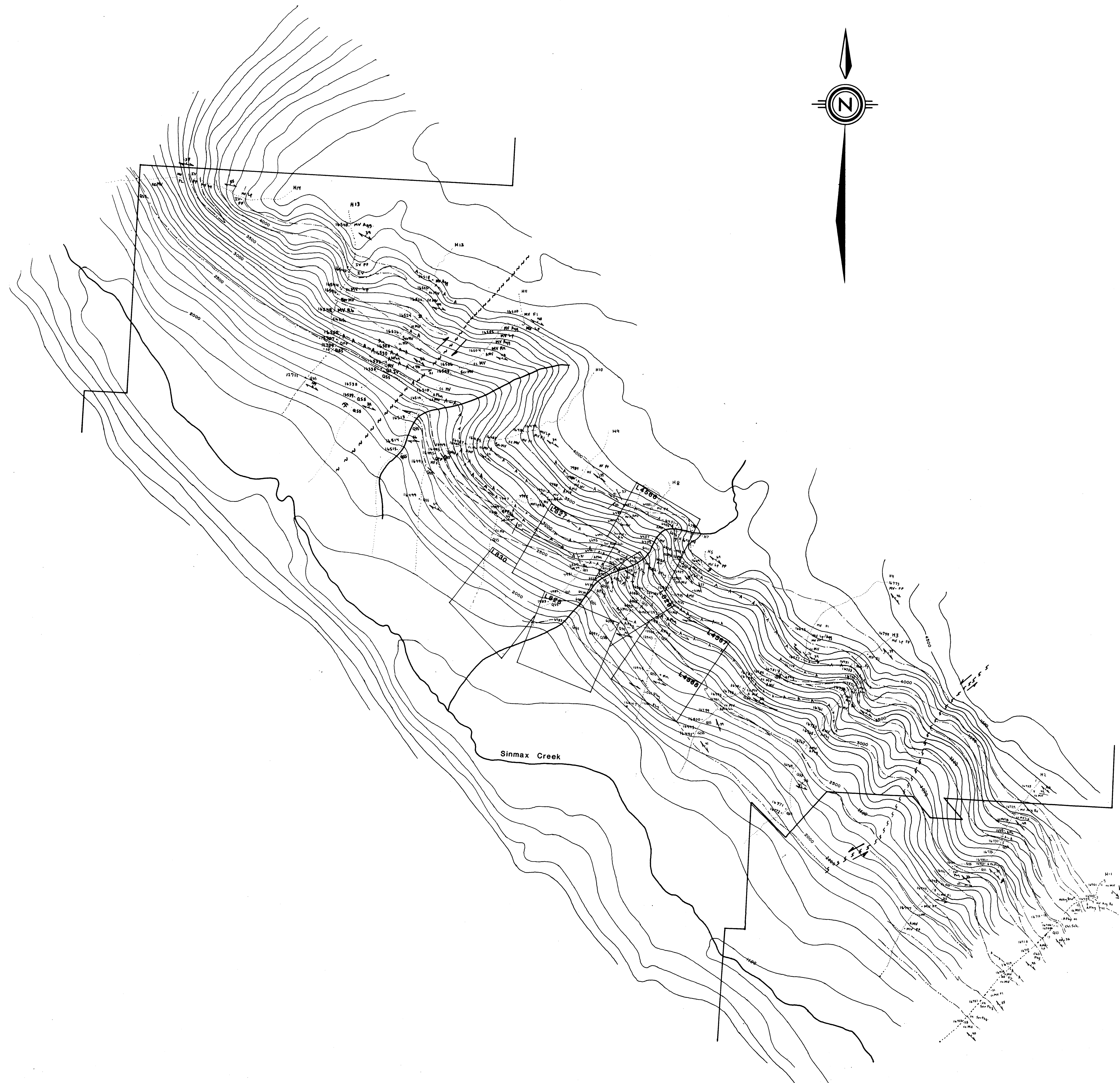


ESSO MINERALS CANADA
A DIVISION OF ESSO RESOURCES CANADA LIMITED

GRID LOCATION
&
CLAIM BOUNDARY MAP:
KAMAD 6,7,8 PROPERTIES

To accompany a report by J. Oliver

SCALE: 1:5000	N.T.S.: 82M/4W
DATE: October, 1988	MINING DIVISION: Kamloops
DRAWN BY: M.Reed	MAP NO.: 1



LITHOLOGY

- MV** Mafic Volcanics
- MV Lp** Mafic Lapilli Pyroclastic
- MV Agg** Mafic Agglomerates
- MV FI** Mafic Flows
- MV cc** Mafic Volcanics - Carbonitized
- MV PP** Plagioclase Porphyritic Mafic Volcanic Flow
- D** Diorite
- IV** Intermediate Volcanic
- IV PP** Plagioclase Porphyritic Intermediate Volcanic
- MVArgBx** Mafic Volcanics and Interbedded Contemporaneous Argillite Breccias
- A Phy** Ankeritic Phyllite
- A MV** Ankeritic Mafic Volcanic
- A** Argillite
- Chi Sch** Chlorite Schist
- QFP** Quartz Feldspar Porphyritic felsic Flows
- QSS** Quartz Sericite Schist - Homestake Schist
- Ba** Massive Barite
- Chi Phy** Chloritic Phyllite

SYMBOLS

- H10** Geological Traverse Line, Lithochemical Sample Point and Geological Station
- M** Attitude of Bedding Surface
- P** Attitude of Planar Fabric
- B** Bedding Cleavage Intersection Lineation
- C** Crenulation Lineation
- F** Minor Fold Axis and Mullion Structures
- A** Surface Trace of Argillite Bed
- G** Geological Contact; Defined, Approximate
- F** Fault, Strike Slip
- Claim Boundary
- Topographic Contours - 100 Foot Intervals

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,754
PART 2 OF 2

SCALE 1:10,000
0 100 500 Metres

ESSO MINERALS CANADA

LITHOGEOCHEMICAL
SAMPLE LOCATION MAP
AND
GENERALIZED STRATIGRAPHY
SINMAX CLIFFS

To accompany a report by J.O., J.M., + Z.D.

Project No: MA07	Report No:
Mining Div: Kamloops	NTS: 82M/4W
Survey By: J. Oliver	Drafted By: J.O.
Date: Oct. 1986	Map No: 25

REVISIONS

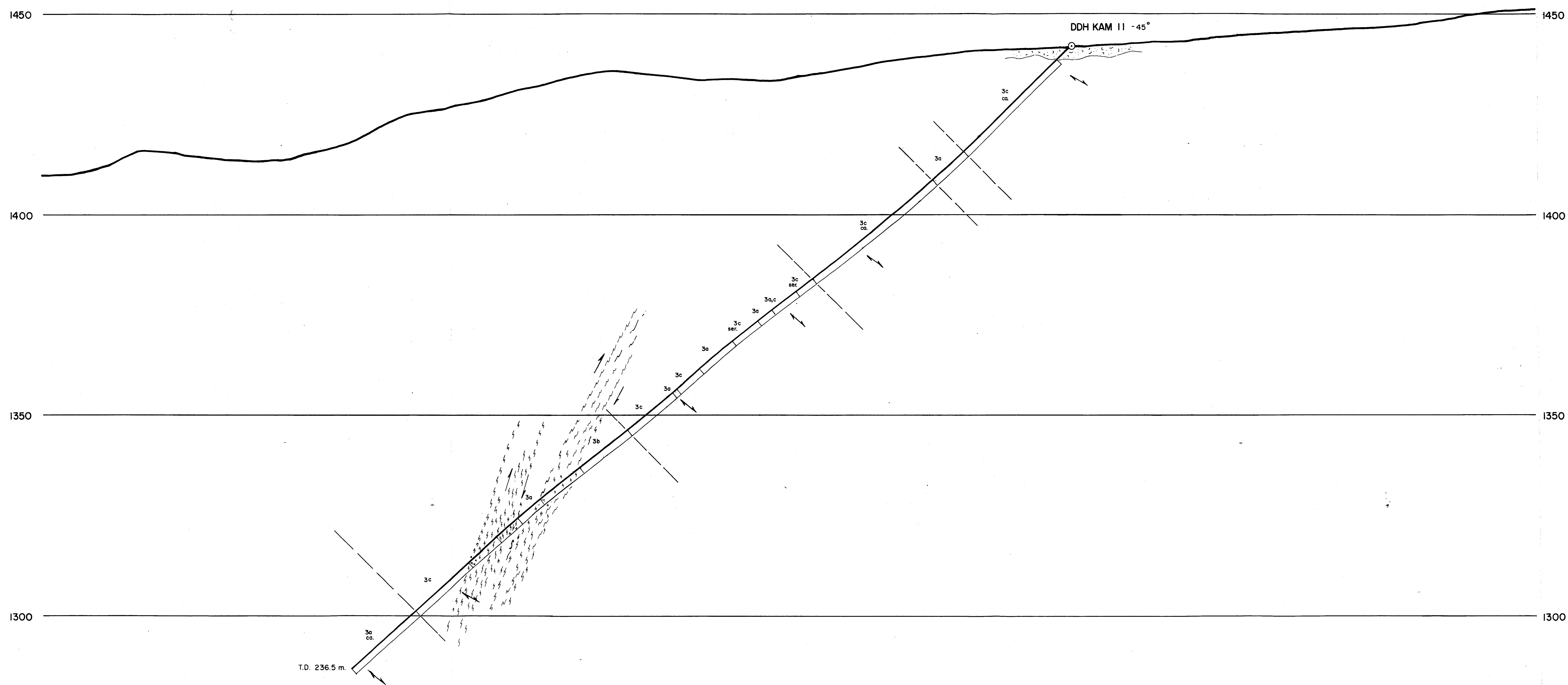
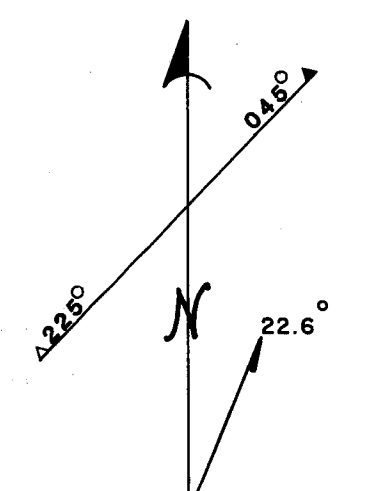
By	Date	Apprv. By

1400 S

0-00
BASELINE

1400 N

2400 N



LEGEND

- 12 Overburden
- UNCONFORMITY
- 11 Felsic intrusive
- 14 Intermediate intrusive
- 13 Mafic intrusive
- 3a Quartz diorite
- 3b Porphyritic diorite

FAULTING AND FOLDING

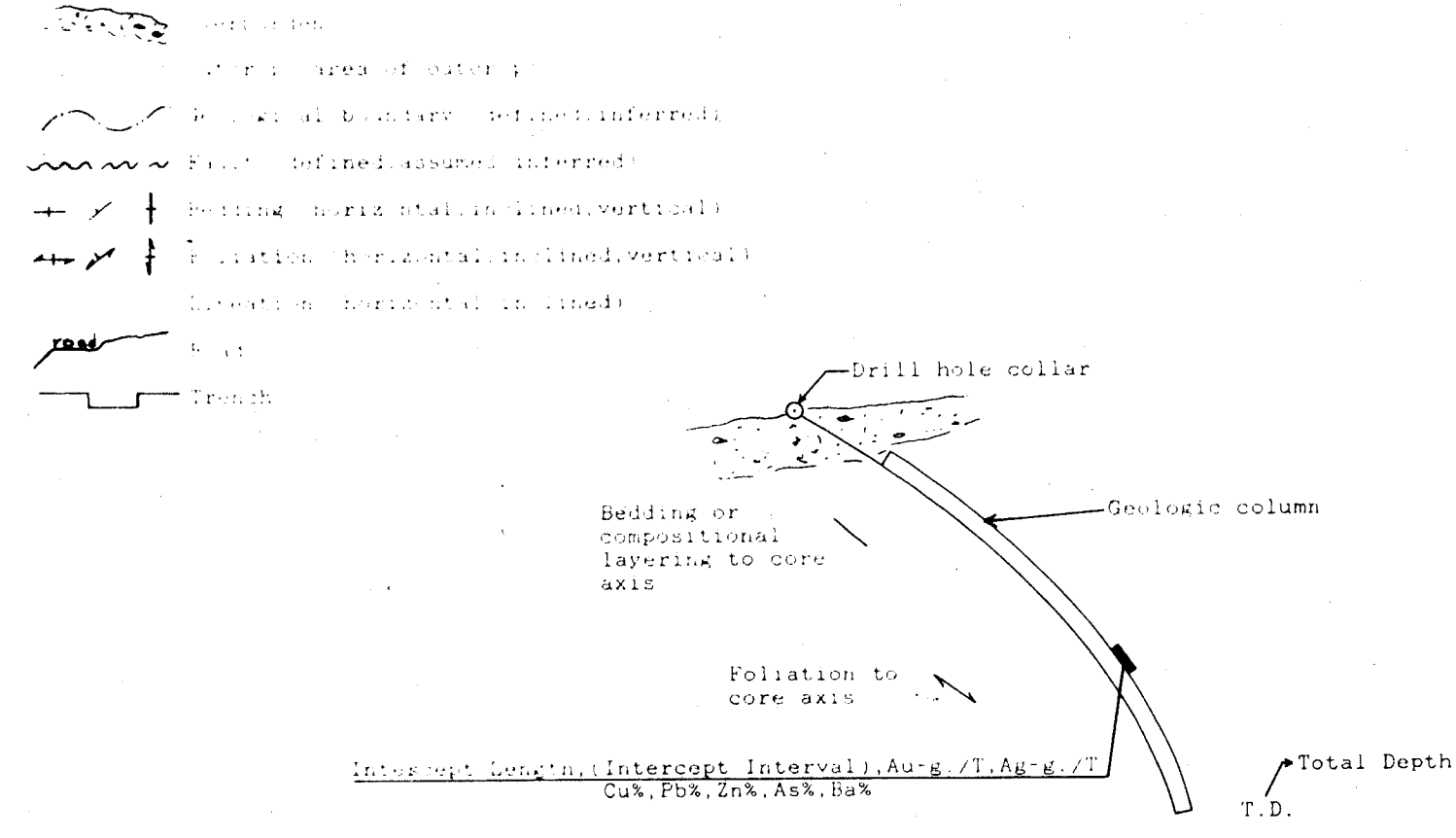
DEVONIAN, MISSISSIPPIAN & OLDER

MISSISSIPPIAN

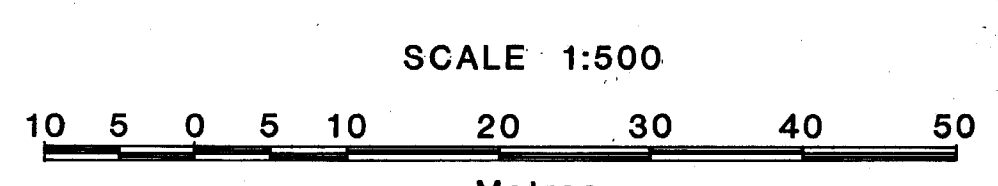
(KEM) RANGE BAY FORMATION

- 8a Limestone and dolomite
- 8b Heterolithic wacke - conglom-erate
- 8c Quartz wacke, minor arcellite
- 8d Silty-sandstone, arcellite
- 8e Arcellite
- 7a Interbedded arcellite and intermediate lapilli tuff; minor flow
- 7b Intermediate flow
- 7c Intermediate flow
- 7d Intravolcanic chert
- 6a Pyritic tuff and siltite
- 6b Arcellite and siltite
- 6c Black chert and chert breccia; minor arcellite
- 6d Intermediate flow
- 4a Sericitic to phyllitic chert
- 4b Heterolithic chert breccia
- 4c Cherty arcellite
- 4d Arcellite
- 4e Chert
- 4f Tuffaceous chert
- 4g Tectonic chert breccia
- 3a Mafic flow
- 3b Sericitic mafic flow
- 3c Mafic lapilli tuff
- 3d Mafic tuff
- 3e Carbonized mafic lapilli tuff
- 3f Silicified, pyritized mafic lapilli tuff
- 3g Sericitized, pyritized mafic lapilli tuff
- 3h Mafic ash fall
- 3i Intravolcanic chert
- 3j Talcose fine-grained mafic epitealite
- 2a Massive, bedded sulphide
- 2b Massive, bedded barite
- 2c Semi-massive sulphide
- 2d Stockwork and stringer sulphide
- 2e Intermediate flow
- 2f Intermediate lapilli tuff
- 2g Intermediate ash fall
- 1a Felsic flow
- 1b Felsic lapilli tuff
- 1c Felsic ash fall

SYMBOLS



ar	Argentite	cp	Chalcopyrite	mx	Magnetite
ap	Asenopyrite	sp	Sphalerite	mp	Mercurite
br	Barite	gs	Galenite	py	Pyrite
cl	Clayite	gr	Graphite	qtz	Quartz
fl	Fluorite	hm	Hematite	sp	Sphalerite
ch	Chalcopyrite	ml	Malachite	sl	Sulphide



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754

PART 2 OF 2

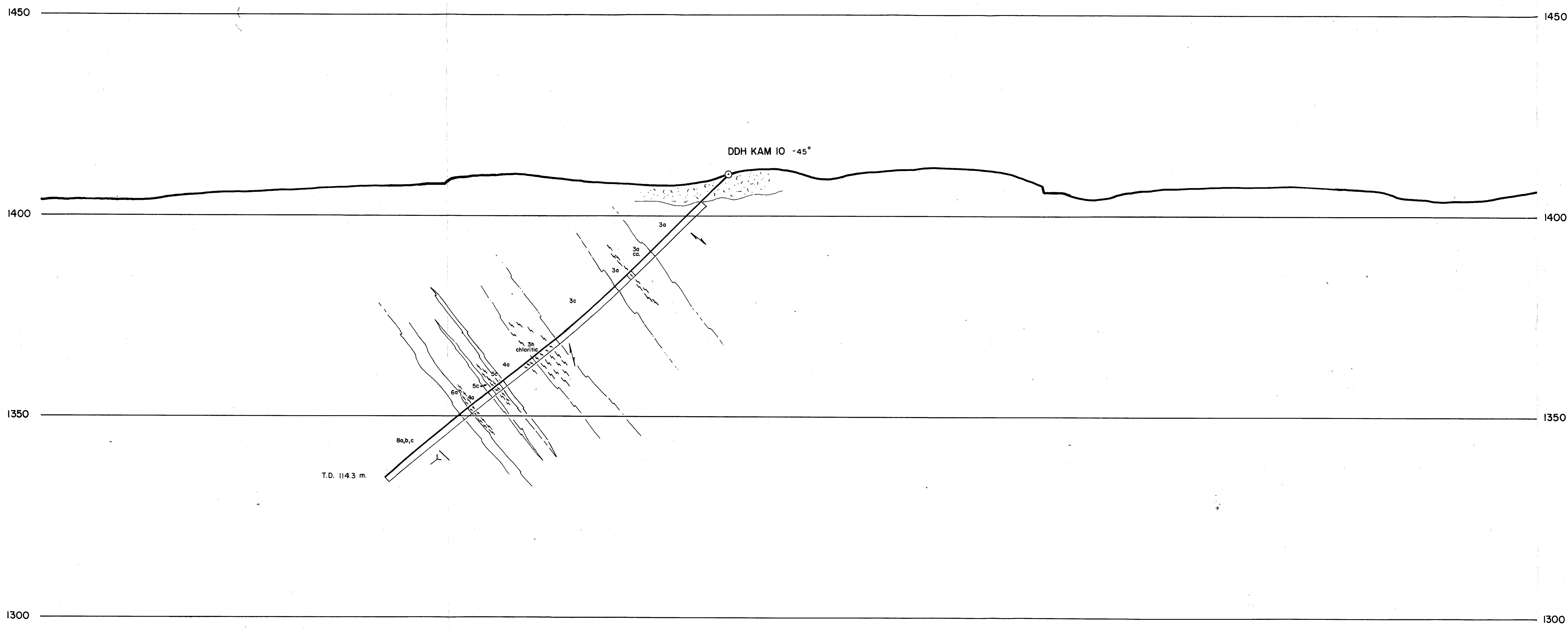
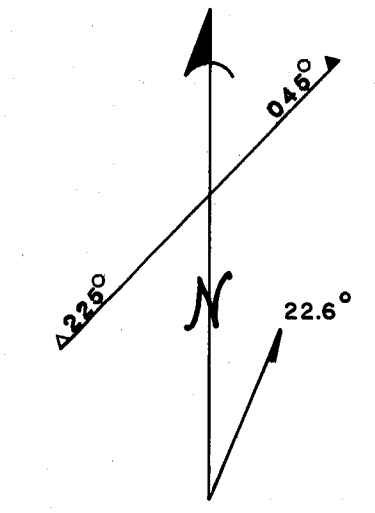
ESSO MINERALS CANADA		
GEOLOGICAL CROSS-SECTION LINE 83 00 EAST		
KAMAD 7 PROPERTY		
To accompany a report by J. Oliver		
Project No. MA07	Mining Division	Kamloops
NTS No. 82M/4W	Report No.	
Geology By J. OLIVER	Drafted By M. Reed	
Date October, 1986	Map No. 20	

400 S

300 S

200 S

100 S



LEGEND

- 12 Overburden
- UNIFORMITY
- 11 Felsic intrusive
- 10 Intermediate intrusive
- 9 Mafic intrusive
 - 9a Quartz diorite
 - 9b Porphyritic diorite

FAULTING AND FOLDING

DEVONIAN, MISSISSIPPIAN & OLDER

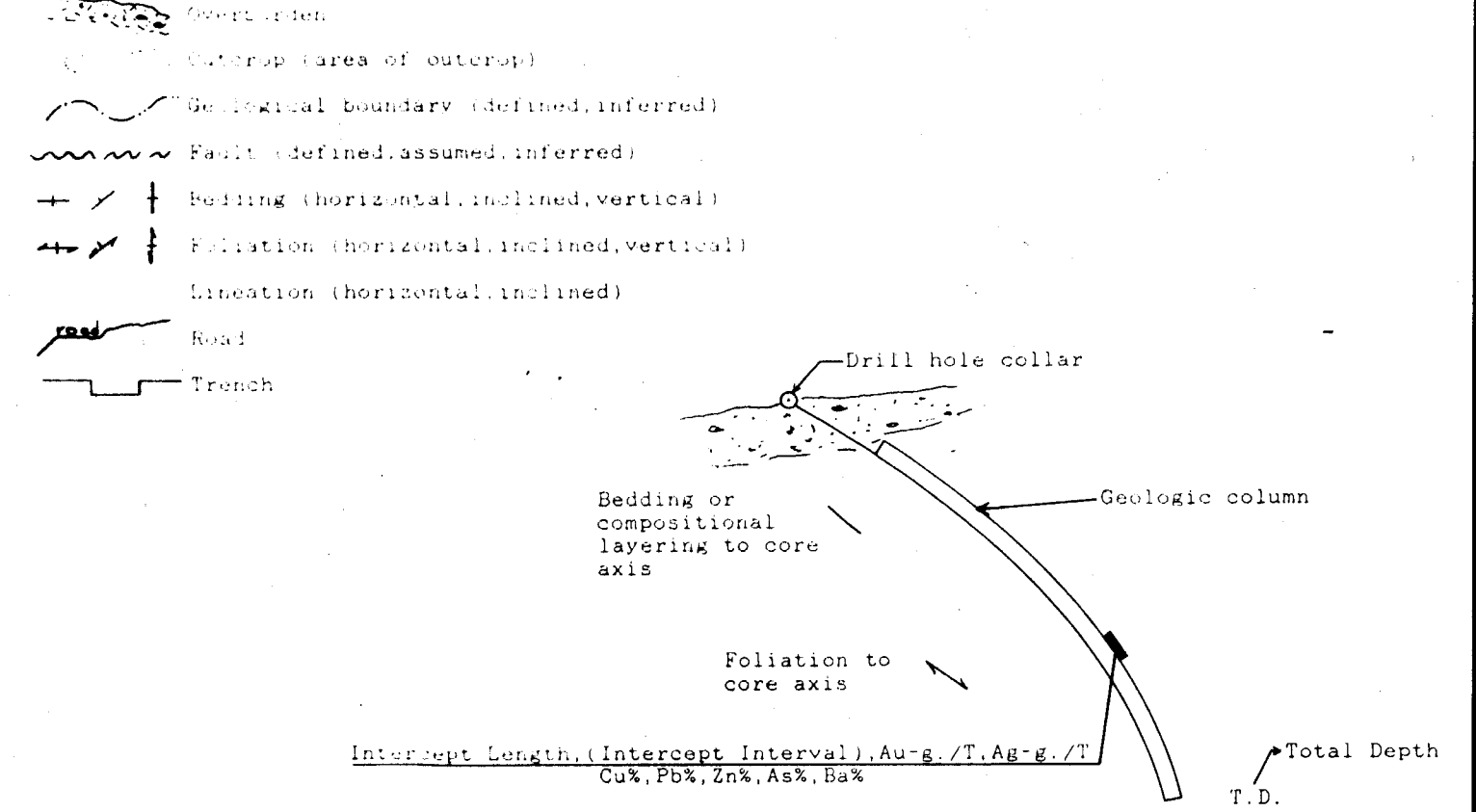
MISSISSIPPIAN

EAGLE BAY FORMATION

- | | |
|--|--|
| 5a Limestone and dolomite | 4a Sericitic to phyllitic chert |
| 5b Metrolithic wacke - conglomerate | 4b Metrolithic chert breccia |
| 5c Quartz wacke: minor argillite | 4c Cherty argillite |
| 5d Siltstones, argillite | 4d Argillite |
| 5e Argillite | 4e Chert |
| | 4f Tuffaceous chert |
| | 4g Tectonic chert breccia |
| 2a Interbedded argillite and intermediate lapilli tuff | 3a Mafic flow |
| 2b Intermediate lapilli tuff: minor flows | 3b Sericitic mafic flow |
| 2c Intermediate flows | 3c Mafic lapilli tuff |
| 2d Intravolcanic chert | 3d Mafic tuff |
| | 3e Carbonitized mafic lapilli tuff |
| 6a Pyritic tuff and siltite | 3f Silicified, pyritic mafic lapilli tuff |
| 6b Argillite and siltite | 3g Sericitized, pyritic mafic lapilli tuff |
| 6c Black chert and chert breccia: minor argillite | 3h Mafic ash fall |
| 6d Intermediate flow | 3i Intravolcanic chert |
| | 3j Talouse fine-grained mafic epiclastic |

- | | |
|------------------------------------|------------------------------|
| 5a Massive, bedded sulphide | 2a Intermediate flow |
| 5b Massive, bedded barite | 2b Intermediate lapilli tuff |
| 5c Semi-massive sulphide | 2c Intermediate ash fall |
| 5d Stockwork and stringer sulphide | |
| | 1a Felsic flow |
| | 1b Felsic lapilli tuff |
| | 1c Felsic ash fall |

SYMBOLS

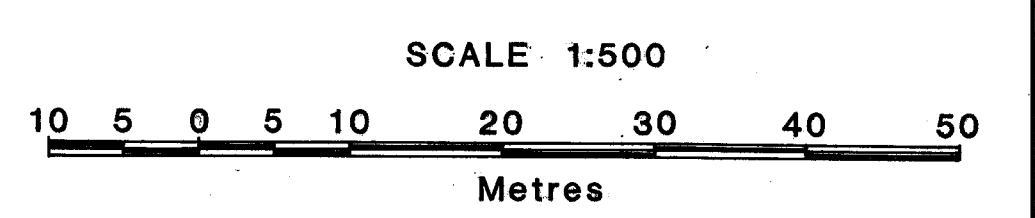


arg	Argentite	cp	Chalcopyrite	mx	Magnetite
ars	Arsenopyrite	ep	Epidote	mp	Malpasite
ba	Barite	gal	Galenite	py	Pyrite
br	Breccia	gr	Graphite	qtz	Quartz
ca	Calcite	hem	Hematite	sph	Sphalerite
chl	Chlorite	mal	Malachite	sul	Sulphide

ELEVATION (meters A.M.S.L.)

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754 PART 2 OF 2



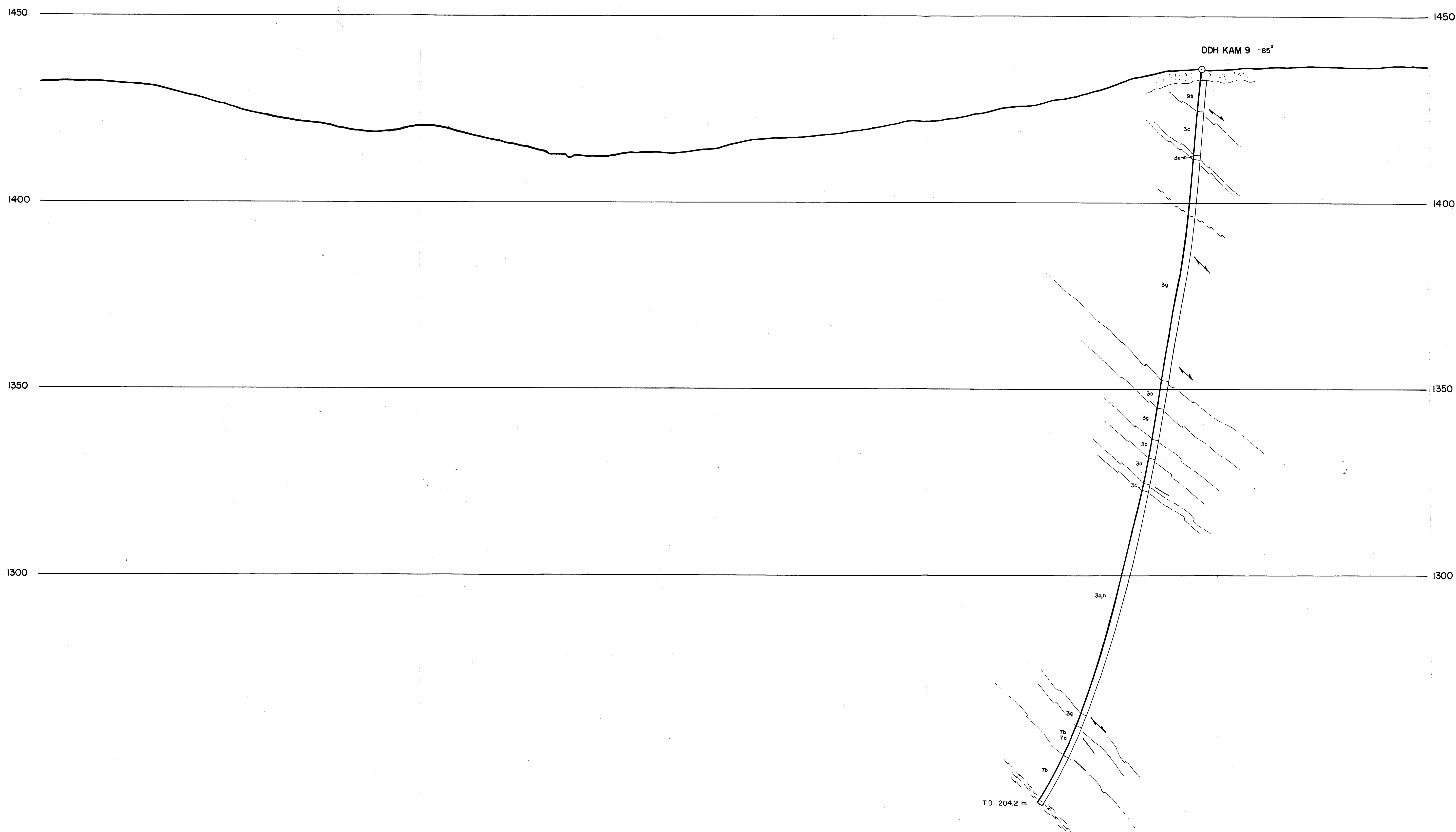
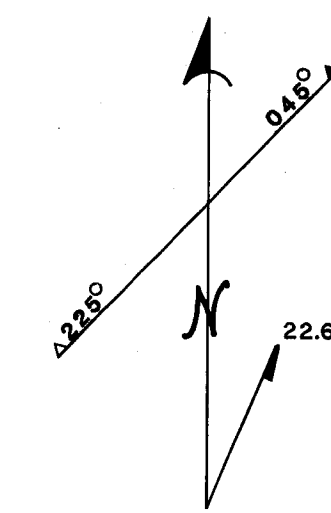
ESSO MINERALS CANADA		
GEOLOGICAL CROSS-SECTION LINE 84+00 EAST		
KAMAD 7 PROPERTY		
To accompany a report by J. Oliver		
Project No. MA07	Mining Division	Kamloops
NTS No. 82M/4W	Report No.	
Geology By J. OLIVER	Drafted By M. Reed	
Date October, 1986	Map No. 19	

300 S

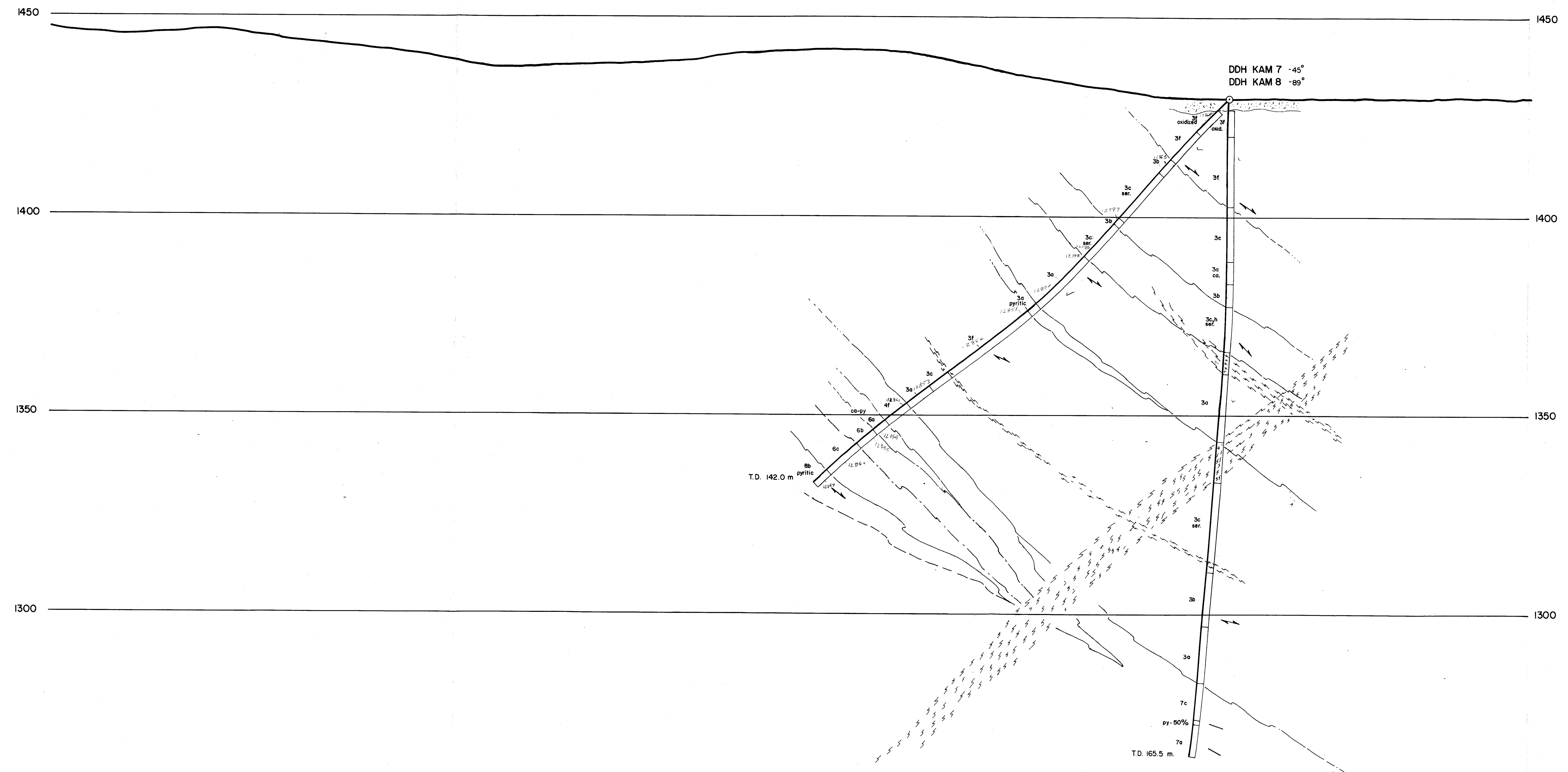
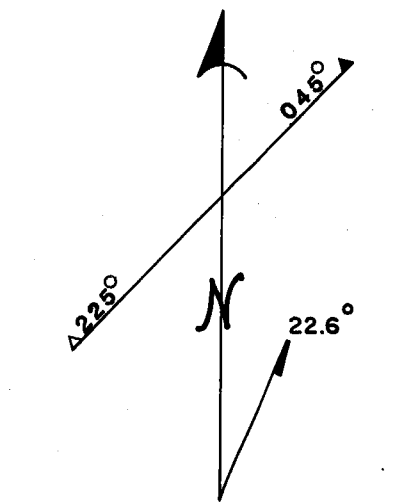
200 S

100 S

0-00 BASELINE



3+00 S
2+00 S
1+00 S
0+00 BASELINE



LEGEND

12 Overburden
UNDIFORMITY

11 Folioic intrusive
10 Intermediate intrusive
9 Mafic intrusive
9a Quartz diorite
9b Porphyritic diorite

FAULTING AND FOLDING

DEVONIAN, MISSISSIPPIAN & OLDER

MISSISSIPPIAN

(E8): KADLE BAY FORMATION

8a Limestone and dolomite	8k Sericitic to phyllitic chert
8b Metrolithic wacke - conglomerate	8l Metrolithic chert breccia
8c Quartz wacke, minor argillite	8m Cherty argillite
8d Siltstones, argillite	8n Argillite
8e Argillite	8o Chert
	8p Tuffaceous chert
	8q Tectonic chert breccia

7a Interbedded argillite and intermediate lapilli tuff	7e Mafic flow
7b Intermediate lapilli tuff; minor flows	7f Sericitic mafic flow
7c Intermediate flows	7g Mafic lapilli tuff
7d Intravolcanic chert	7h Mafic tuff
	7i Carbonitized mafic lapilli tuff
6a Pyritic tuff and siltite	6j Silicified, pyriticized mafic lapilli tuff
6b Argillite and siltite	6k Sericitized, pyriticized mafic lapilli tuff
6c Black chert and chert breccia; minor argillite	6l Mafic ash fall
6d Intermediate flow	6m Intravolcanic chert
	6n Talouse fine-grained mafic epiclastic

5a Massive, bedded sulphide	5e Intermediate flow
5b Massive, bedded barite	5f Intermediate lapilli tuff
5c Semi-massive sulphide	5g Intermediate ash fall
5d Stockwork and stringer sulphide	

4a Pyritic flow
4b Pyritic lapilli tuff
4c Pyritic ash fall

SYMBOLS

Overburden
Trap area of outcrop
Geological boundary (defined, inferred)
Fault (defined, assumed, inferred)
Bedding (horizontal, inclined, vertical)
Foliation (horizontal, inclined, vertical)
Lamination (horizontal, inclined)
Road
Trench

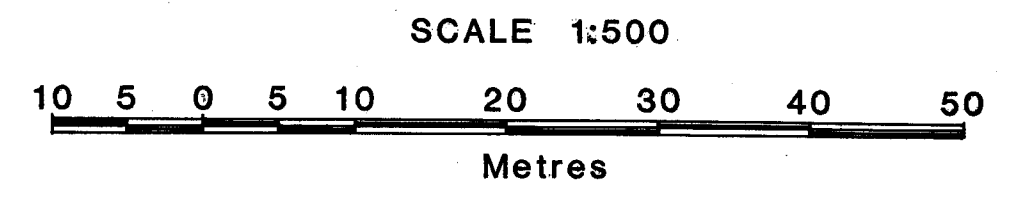
Drill hole collar
Geologic column
Bedding or compositional layering to core axis
Foliation to core axis

Intercept Length, Intercept Interval, Area, Area / Interval, Total Depth, T.D.

MINERAL CHEMISTRY	ar Arsenite	cp Chalcopyrite	mx Magnetite
	asp Arsenopyrite	ep Epidote	mp Marcopite
	br Barite	gal Galena	py Pyrite
	bx Breccia	gr Graphite	qtz Quartz
	ca Calcite	hm Hematite	sp Sphalerite
	cl Chlorite	mal Malachite	sul Sulphide

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754 PART 2 OF 2



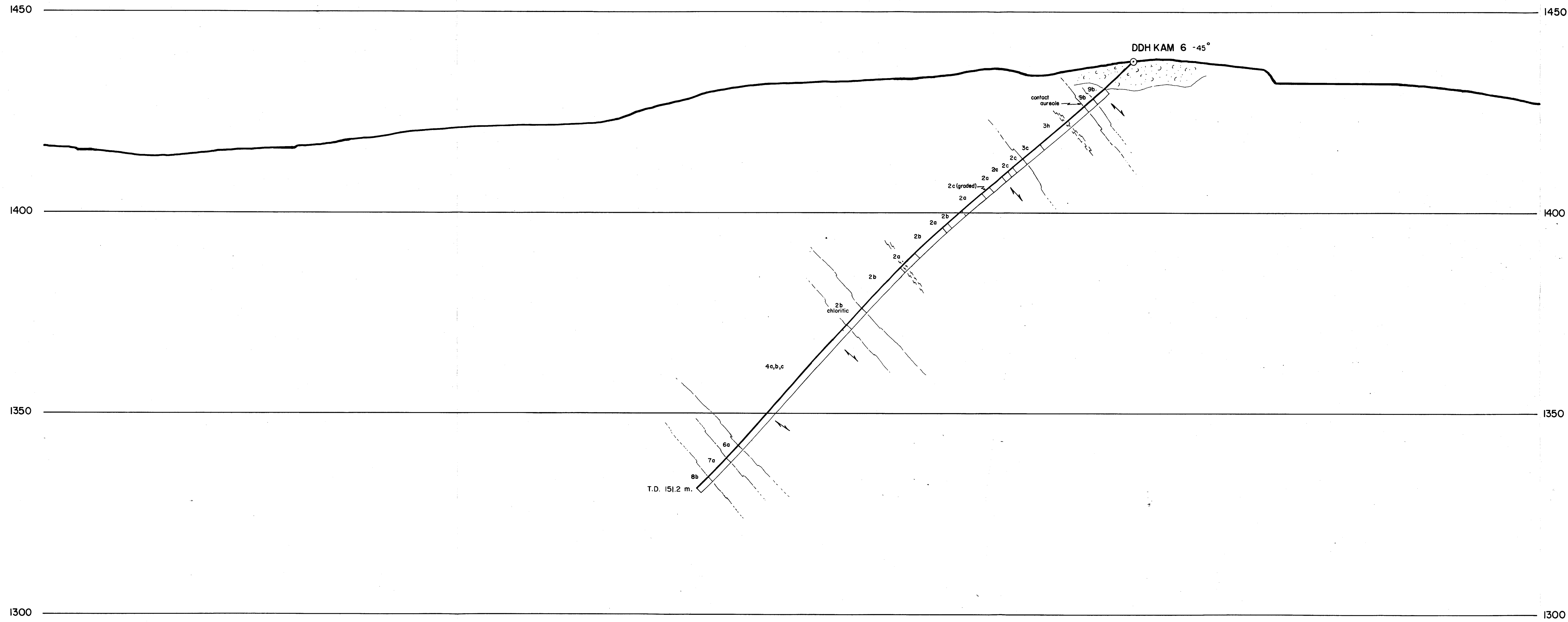
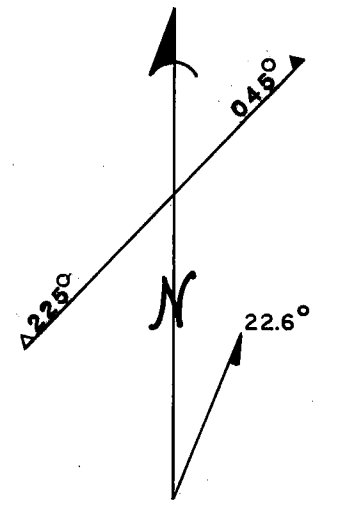
ESSO MINERALS CANADA		
GEOLOGICAL CROSS-SECTION LINE 91+00 EAST		
KAMAD 7 PROPERTY		
To accompany a report by J. Oliver		
Project No. MA07	Mining Division	Kamloops
NTS No. 82M/4W	Report No.	
Geology By J. OLIVER	Drafted By M. Reed	
Date October, 1986	Map No. 17	

4+00 S

3+00 S

2+00 S

1+00 S



LEGEND

- 10 Overburden
- UNCONFORMITY
- 11 Felsic intrusive
- 12 Intermediate intrusive
- 9 Mafic intrusive
 - 9a Quartz diorite
 - 9b Porphyritic diorite

FAULTING AND FOLDING

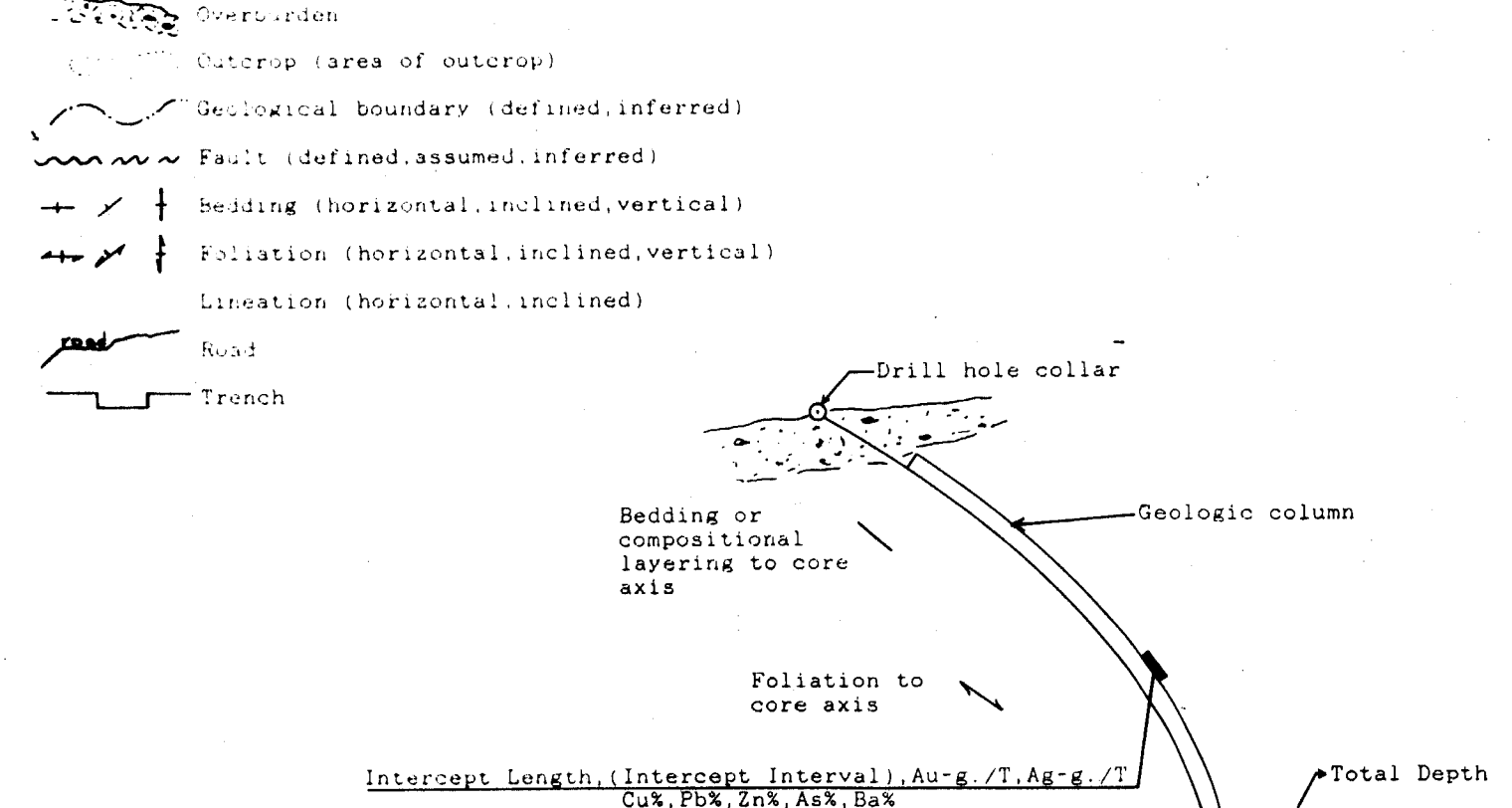
DEVONIAN, MISSISSIPPIAN & OLDER

MISSISSIPPIAN

(KRG) KAGLE BAY FORMATION

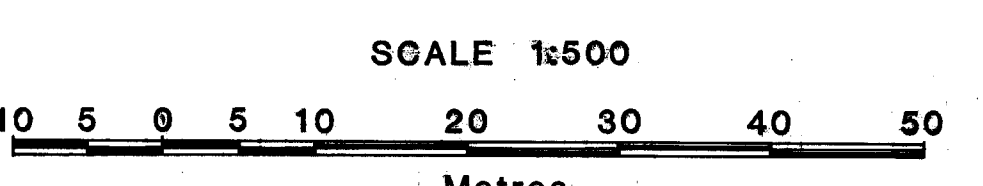
- | | |
|--|--|
| 8a Limestone and dolomite | 4a Sericitic to phyllitic chert |
| 8b Heterolithic wacke - conglomerate | 4b Heterolithic chert breccia |
| 8c Quartz wacke: minor argillite | 4c Cherty argillite |
| 8d Silstones, argillite | 4d Arakillite |
| 8e Arakillite | 4e Chert |
| | 4f Tuffaceous chert |
| | 4g Tectonic chert breccia |
| | 4h Talcose fine-grained mafic epioilastic |
| 7a Interbedded argillite and intermediate lapilli tuff | 3a Mafic flow |
| 7b Intermediate lapilli tuff: minor flows | 3b Sericitic mafic flow |
| 7c Intermediate flows | 3c Mafic lapilli tuff |
| 7d Intravolcanic chert | 3d Mafic tuff |
| | 3e Carbonitized mafic lapilli tuff |
| 5a Pyritic tuff and siltite | 3f Silicified, pyritized mafic lapilli tuff |
| 5b Argillite and siltite | 3g Sericitized, pyritized mafic lapilli tuff |
| 5c Black chert and chert breccia: minor argillite | 3h Mafic ash fall |
| 5d Intermediate flow | 3i Intravolcanic chert |
| | 3j Talcose fine-grained mafic epioilastic |
| 2a Massive, bedded sulphide | 2a Intermediate flow |
| 2b Massive, bedded barite | 2b Intermediate lapilli tuff |
| 2c Semi-massive sulphide | 2c Intermediate ash fall-flow |
| 2d Stockwork and stringer sulphide | |
| | 1a Felsic flow |
| | 1b Felsic lapilli tuff |
| | 1c Felsic ash fall |

SYMBOLS



al Aluminosilicate	af Argentite	cp Chalcopyrite	mx Magnetite
am Amorphous	asp Arsenopyrite	ep Epidote	mp Marcoposite
an Anhydrite	ba Barite	gal Galena	py Pyrite
ap Apatite	bx Breccia	gr Graphite	qt Quartz
as Anhydrite	ca Calcite	hem Hematite	sp Sphalerite
au Au	chl Chlorite	mal Malachite	sul Sulphide

ELEVATION (meters A.M.S.L.)



GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754 PART 2 OF 2

ESSO MINERALS CANADA

GEOLOGICAL CROSS-SECTION LINE 86+00 EAST

KAMAD 7 PROPERTY

To accompany a report by J. Oliver

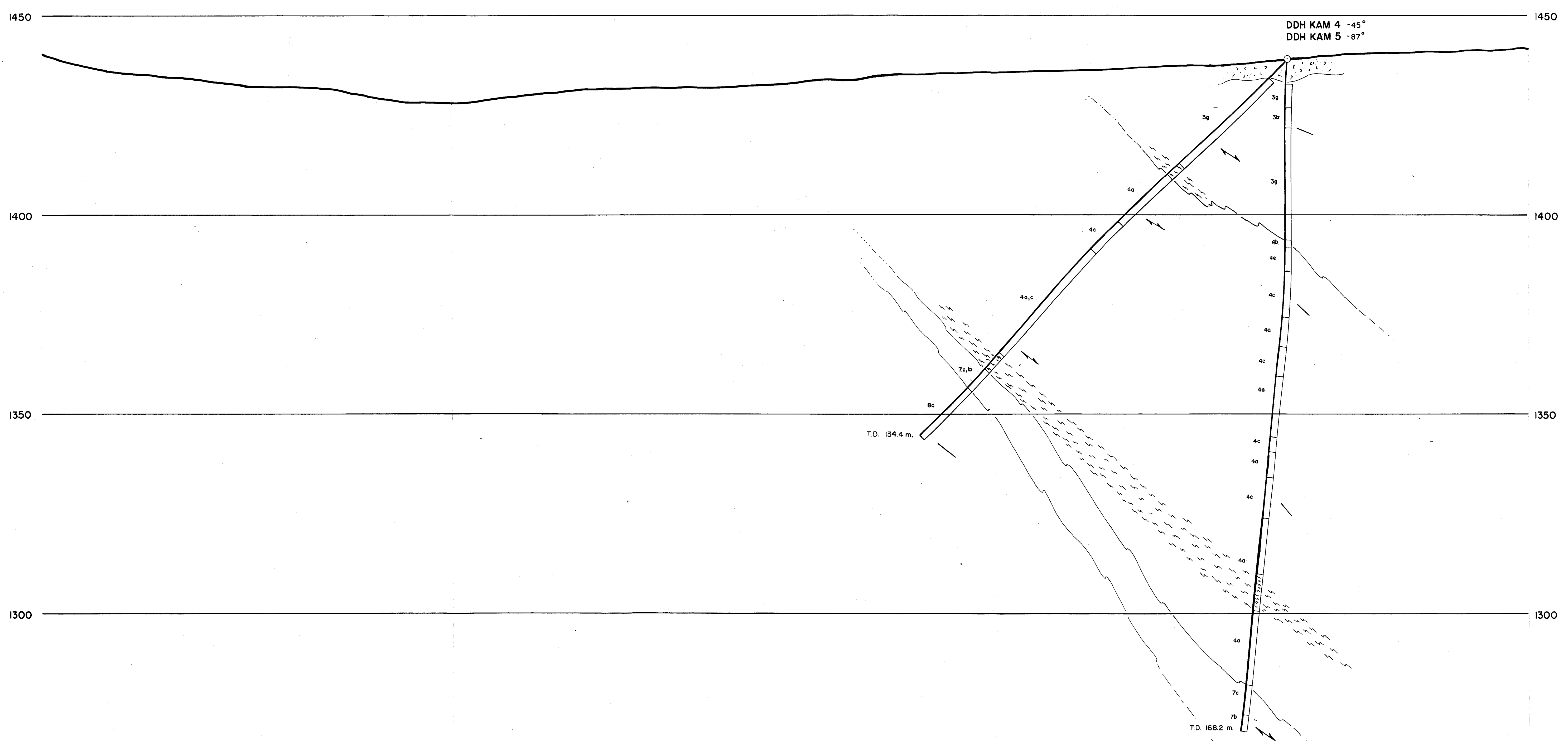
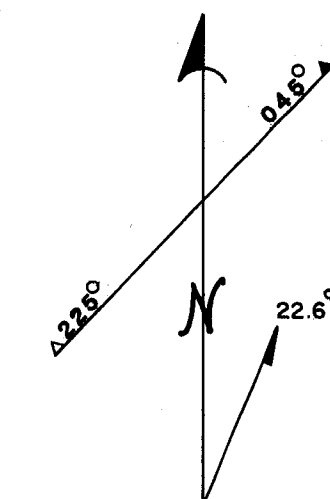
Project No. MA07	Mining Division Kamloops
NTS No. 82M4W	Report No.
Geology By J. OLIVER	Drafted By M.Reed
Date October, 1986	Map No. 16

0+00
BASELINE

1+00 N

2+00 N

3+00 N



LEGEND

- 15 Overburden
- 11 Felsic intrusive
- 10 Intermediate intrusive
- 9 Mafic intrusive
 - 9a Quartz diorite
 - 9b Porphyritic diorite

FAULTING AND FOLDING

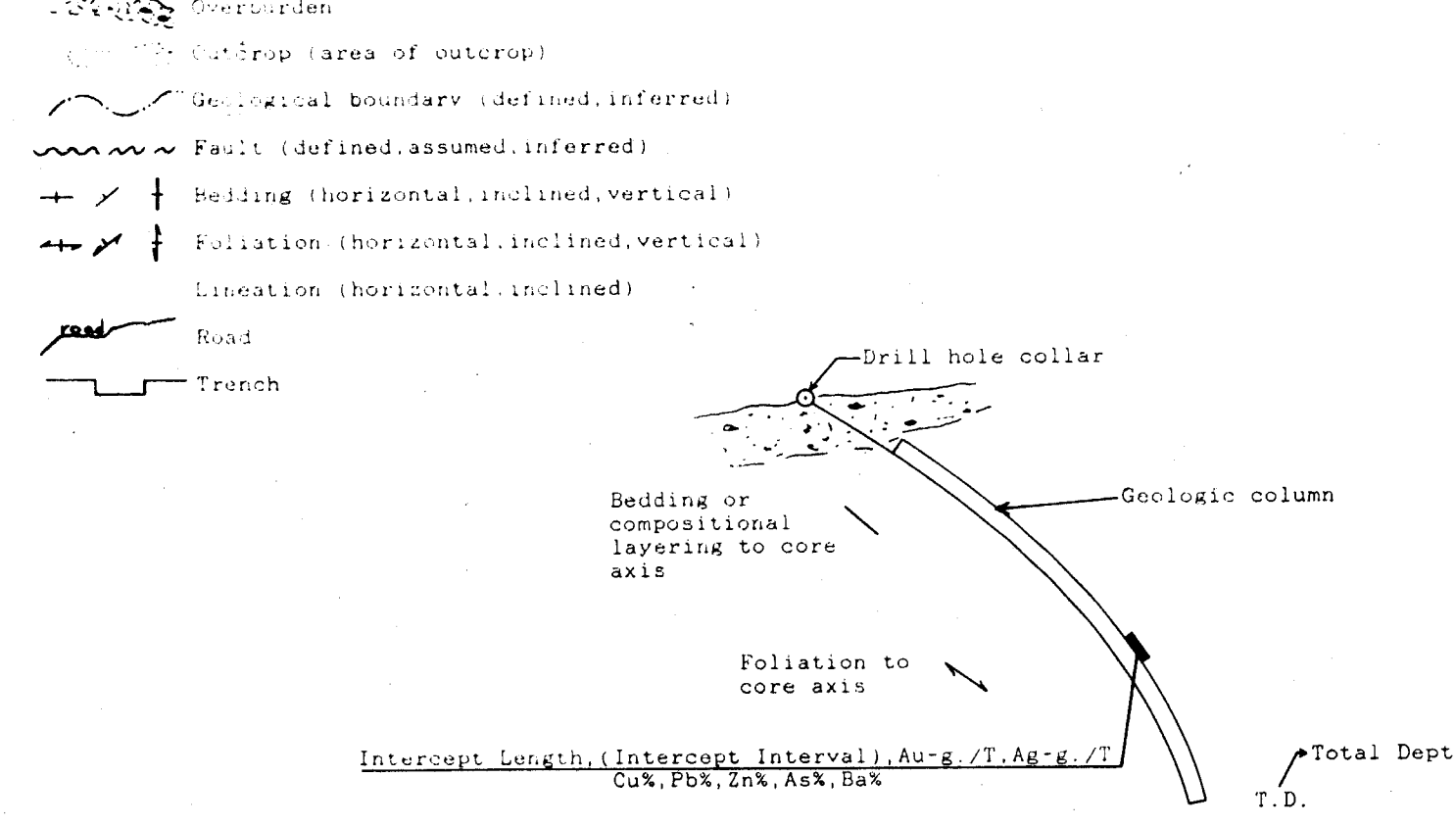
DEVONIAN, MISSISSIPPIAN & OLDER

MISSISSIPPIAN

(EBG) EAGLE BAY FORMATION

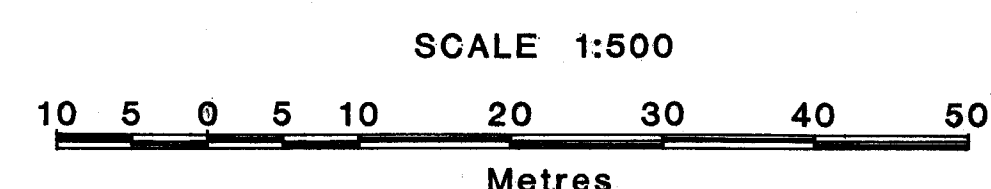
- | | |
|--|--|
| 8a Limestone and dolomite | 8a Sericitic to phyllitic chert |
| 8b Metacalcarenite | 8b Metacalcarenite breccia |
| 8c Quartz wacke, minor argillite | 8c Cherty argillite |
| 8d Siltstone, argillite | 8d Argillite |
| 8e Argillite | 8e Chert |
| 8f Interbedded argillite and intermediate lapilli tuff | 8f Tuffaceous chert |
| 8g Intermediate lapilli tuff, minor flows | 8g Tectonic chert breccia |
| 8h Intermediate flows | 8h Mafic flow |
| 8i Intravolcanic chert | 8i Sericitic mafic flow |
| 8j Pyritic tuff and siltite | 8j Mafic lapilli tuff |
| 8k Argillite and siltite | 8k Mafic tuff |
| 8l Black chert and chert breccia, minor argillite | 8l Carbonized mafic lapilli tuff |
| 8m Intermediate flow | 8m Silicified, pyritized mafic lapilli tuff |
| 8n Massive, bedded sulphide | 8n Sericitized, pyritized mafic lapilli tuff |
| 8o Massive, bedded barite | 8o Mafic ash fall |
| 8p Semi-massive sulphide | 8p Intravolcanic chert |
| 8q Stockwork and stringer sulphide | 8q Talcoose fine-grained mafic epiclastic |
| | 8r Intermediate flow |
| | 8s Intermediate lapilli tuff |
| | 8t Intermediate ash fall |

SYMBOLS



ar Argentite	cp Chalcopyrite	mag Magnetite
asp Arsenopyrite	ep Epidote	mp Magnetite
ts Barite	gal Galena	py Pyrite
br Brevia	qt Quartz	qs Quartz
ca Calcite	hem Hematite	sph Sphalerite
chl Chlorite	mal Malachite	sul Sulphide

ELEVATION (meters A.M.S.L.)



GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754 PART 2 OF 2

ESSO MINERALS CANADA

GEOLOGICAL CROSS-SECTION LINE 89 00 EAST

KAMAD 7 PROPERTY

To accompany a report by J. Oliver

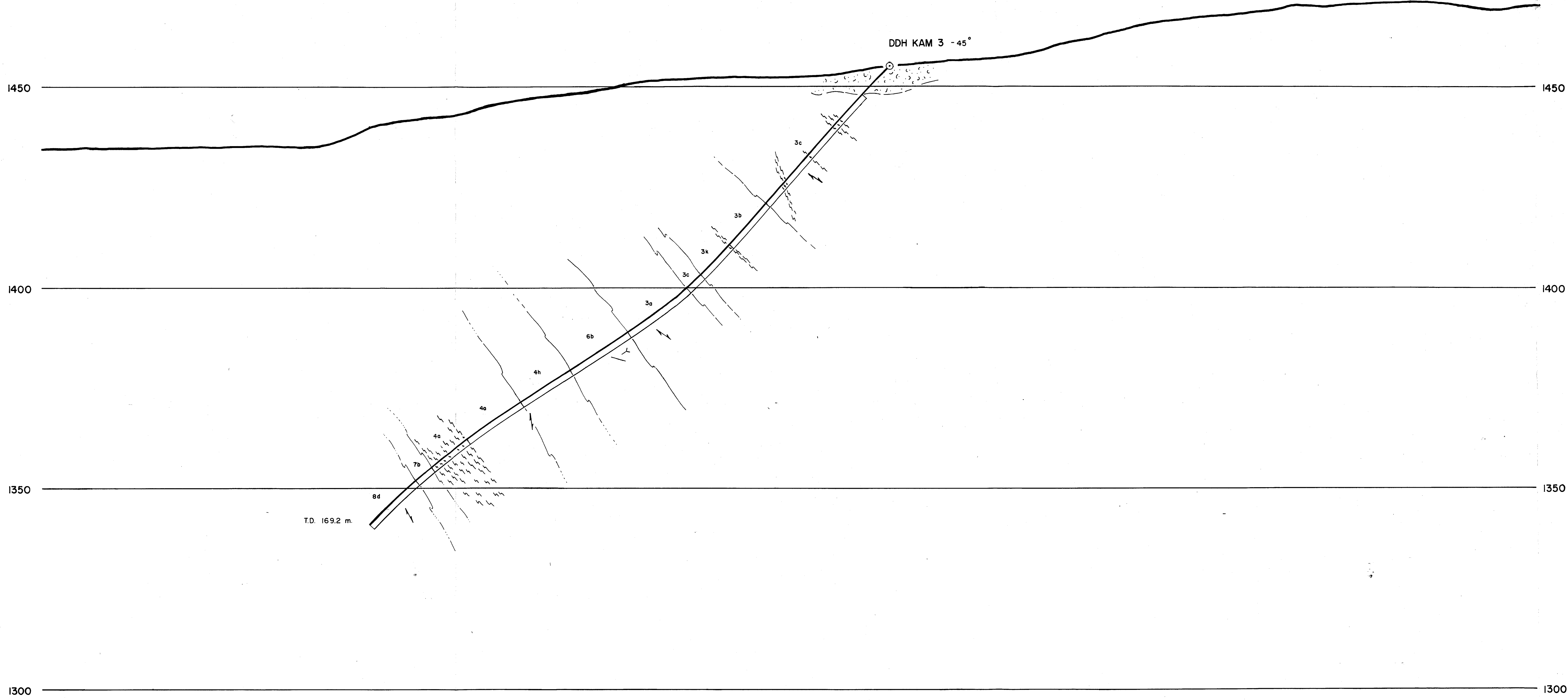
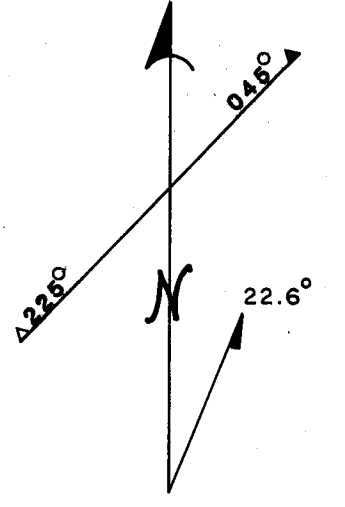
Project No. MA07	Mining Division Kamloops
NTS No. 82M4W	Report No.
Geology By J. OLIVER	Drafted By M.Reed
Date October, 1986	Map No. 15

0+00 BASELINE

100 N

200 N

300 N



LEGEND

- 12 Overburden UNCONFORMITY
- 11 Felsic intrusive
- 10 Intermediate intrusive
- 9 Mafic intrusive
 - 9a Quartz diorite
 - 9b Forphyritic diorite

FAULTING AND FOLDING

DEVONIAN, MISSISSIPPIAN & OLDER MISSISSIPPIAN

(ESG) EAGLE BAY FORMATION

- | | |
|--|--|
| 8a Limestone and dolomite | 4a Sericitic to phyllitic chert |
| 8b Metarolitic wacke - conglomerate | 4b Heterolithic chert breccia |
| 8c Quartz wacke: minor argillite | 4c Cherty argillite |
| 8d Siltstones, argillite | 4d Argillite |
| 8e Argillite | 4e Chert |
| 7a Interbedded argillite and intermediate lapilli tuff | 4f Tuffaceous chert |
| 7b Intermediate lapilli tuff: minor flows | 4g Tectonic chert breccia |
| 7c Intermediate flows | 4h Talcose clay / mudstones |
| 7d Intravolcanic chert | 3a Mafic flow |
| 6a Pyritic tuff and siltite | 3b Sericitic mafic flow |
| 6b Argillite and siltite | 3c Mafic lapilli tuff |
| 6c Black chert and chert breccia: minor argillite | 3d Mafic tuff |
| 6d Intermediate flow | 3e Carbonitized mafic lapilli tuff |
| 5a Massive, bedded sulphide | 3f Silicified, pyritized mafic lapilli tuff |
| 5b Massive, bedded barite | 3g Sericitized, pyritized mafic lapilli tuff |
| 5c Semi-massive sulphide | 3h Mafic ash fall |
| 5d Stockwork and stringer sulphide | 3i Intravolcanic chert |
| | 3j Talcose fine-grained mafic epioolitic |
| | 3k Silicified mafic pyroclastic |
| | 2a Intermediate flow |
| | 2b Intermediate lapilli tuff |
| | 2c Intermediate ash fall |
| | 1a Felsic flow |
| | 1b Felsic lapilli tuff |
| | 1c Felsic ash fall |

SYMBOLS

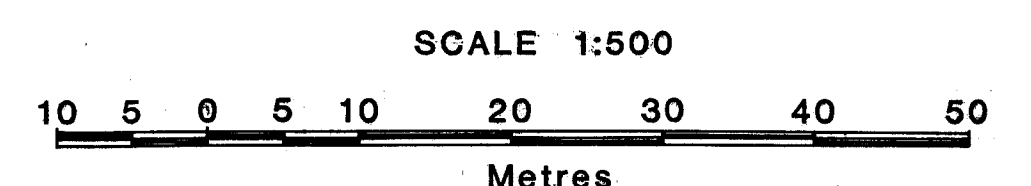
- Overburden
 - Outcrop (area of outcrop)
 - Geological boundary (defined, inferred)
 - Fault (defined, assumed, inferred)
 - Bedding (horizontal, inclined, vertical)
 - Foliation (horizontal, inclined, vertical)
 - Lamination (horizontal, inclined)
 - Road
 - Trench
-

ar Argentite	cd Chalcopyrite	mx Magnetite
asp Arsenopyrite	ep Epidote	mp Meriposite
ba Barite	gal Galena	py Pyrite
bx Breccia	gr Graphite	qtz Quartz
ca Calcite	hem Hematite	sp Spinel
chl Chlorite	mal Malachite	sul Sulphide

ELEVATION (meters A.M.S.L.)

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,754 PART 2 OF 2



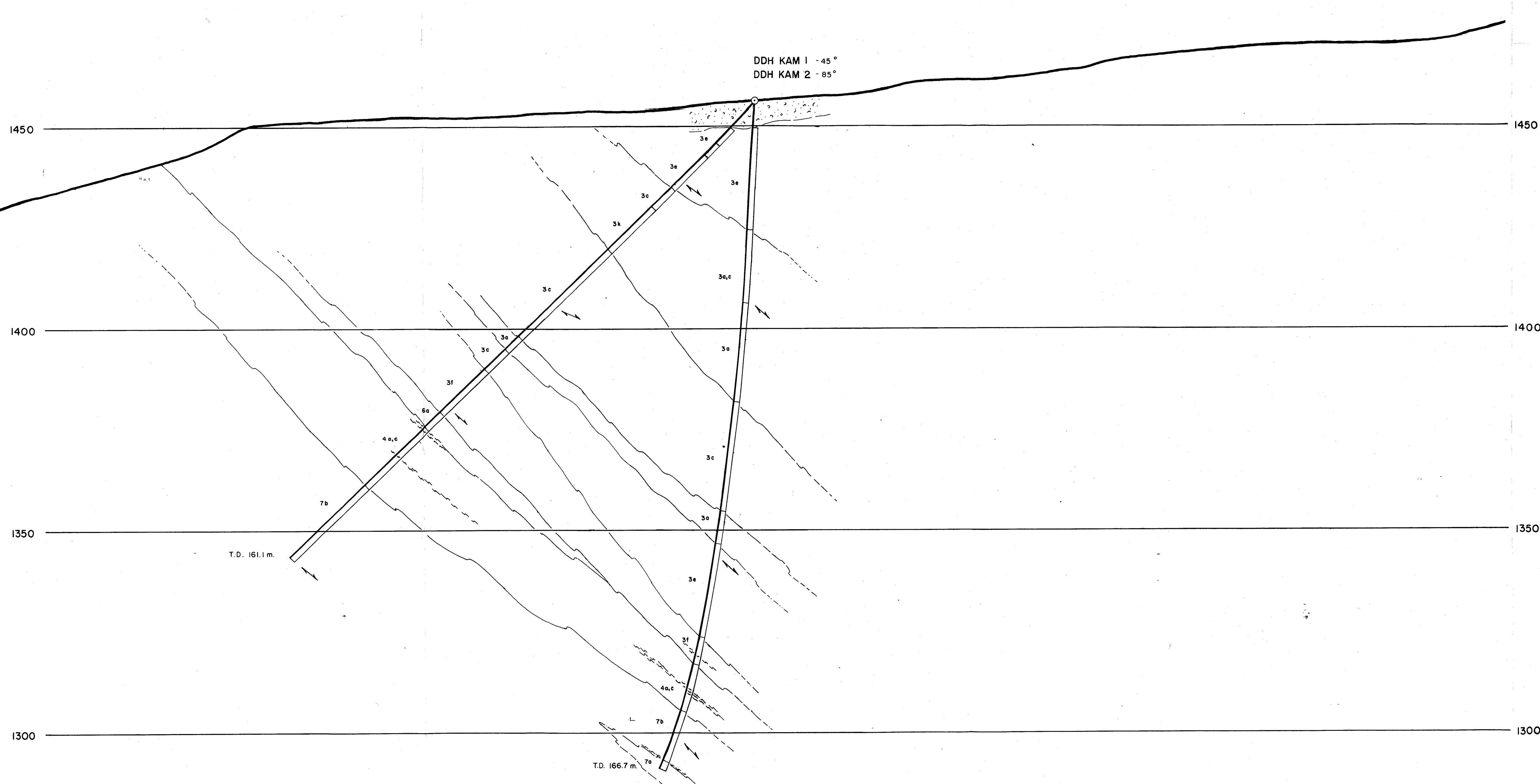
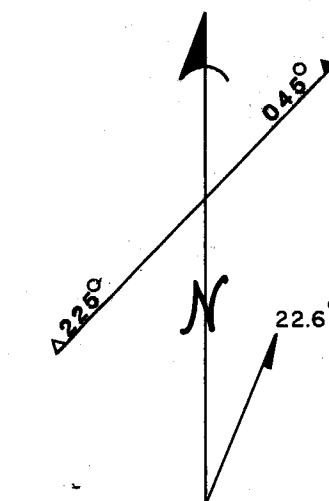
ESSO MINERALS CANADA	
GEOLOGICAL CROSS-SECTION LINE 87+50 EAST	
KAMAD 7 PROPERTY	
To accompany a report by J. Oliver	
Project No. MA07	Mining Division Kamloops
NTS No. 82M/4W	Report No.
Geology By J. OLIVER	Drafted By M. Reed
Date October, 1986	Map No. 14

0+00
BASELINE

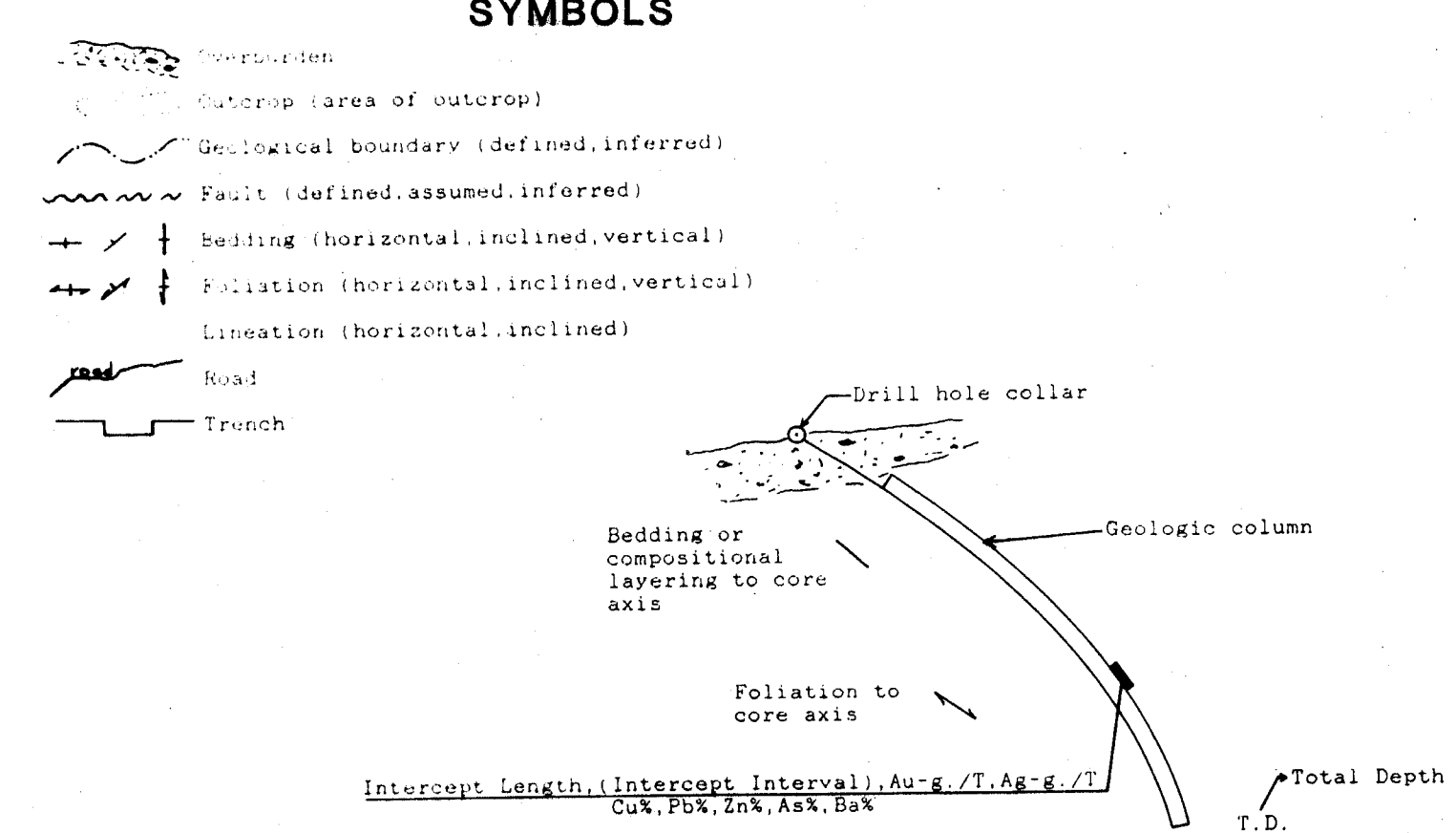
1+00 N

2+00 N

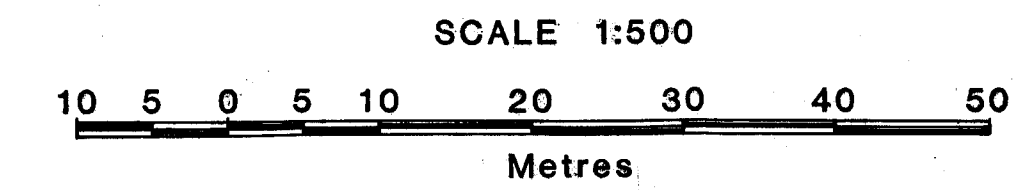
3+00 N



- LEGEND**
- 12 Overburden
 - 11 Felsic intrusive
 - 10 Intermediate intrusive
 - 9 Mafic intrusive
 - 9a Quartz diorite
 - 9b Porphyritic diorite
- FAULTING AND FOLDING**
- DEVONIAN, MISSISSIPPIAN & OLDER**
- MISSISSIPPIAN**
- (EBO) EAGLE BAY FORMATION**
- 8a Limestone and dolomite
 - 8b Heterolithic wacke - conglomerate
 - 8c Quartz wacke - minor argillite
 - 8d Siltstones, argillite
 - 8e Argillite
 - 7a Interbedded argillite and intermediate lapilli tuff
 - 7b Intermediate lapilli tuff - minor flows
 - 7c Intermediate flows
 - 7d Intravolcanic chert
 - 6a Pyritic tuff and siltite
 - 6b Argillite and siltite
 - 6c Black chert and chert breccia - minor argillite
 - 6d Intermediate flow
 - 5a Massive, bedded sulphide
 - 5b Massive, bedded barite
 - 5c Semi-massive sulphide
 - 5d Stockwork and stringer sulphide
 - 4a Sericitic to phyllitic chert
 - 4b Heterolithic chert breccia
 - 4c Cherty argillite
 - 4d Argillite
 - 4e Chert
 - 4f Tuffaceous chert
 - 4g Tectonic chert breccia
 - 3a Mafic flow
 - 3b Sericitic mafic flow
 - 3c Mafic lapilli tuff
 - 3d Mafic tuff
 - 3e Carbonitized mafic lapilli tuff
 - 3f Silicified, pyritic mafic lapilli tuff
 - 3g Sericitized, pyritic mafic lapilli tuff
 - 3h Mafic ash fall
 - 3i Intravolcanic chert
 - 3j Talouse fine-grained mafic epiclastic
 - 3k Silicified mafic pyroclastic
 - 2a Intermediate flow
 - 2b Intermediate lapilli tuff
 - 2c Intermediate ash fall
 - 1a Felsic flow
 - 1b Felsic lapilli tuff
 - 1c Felsic ash fall



arg	Argentite	cp	Chalcopryite	mag	Magnetite
asp	Arsenopyrite	ep	Epidote	mp	Mariposite
bar	Barite	gal	Gaiaite	py	Pyrite
bx	Breccia	gf	Graphite	qs	Quartz
ca	Calcite	hem	Hemalite	spn	Sphalerite
chl	Chlorite	mal	Malachite	sul	Sulphide



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

15,754

PART 2 OF 2

ESSO MINERALS CANADA	
GEOLOGICAL CROSS-SECTION LINE 86+00 EAST	
KAMAD 7 PROPERTY	
To accompany a report by J. Oliver	
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Geology By J. OLIVER	Drafted By M. Reed
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