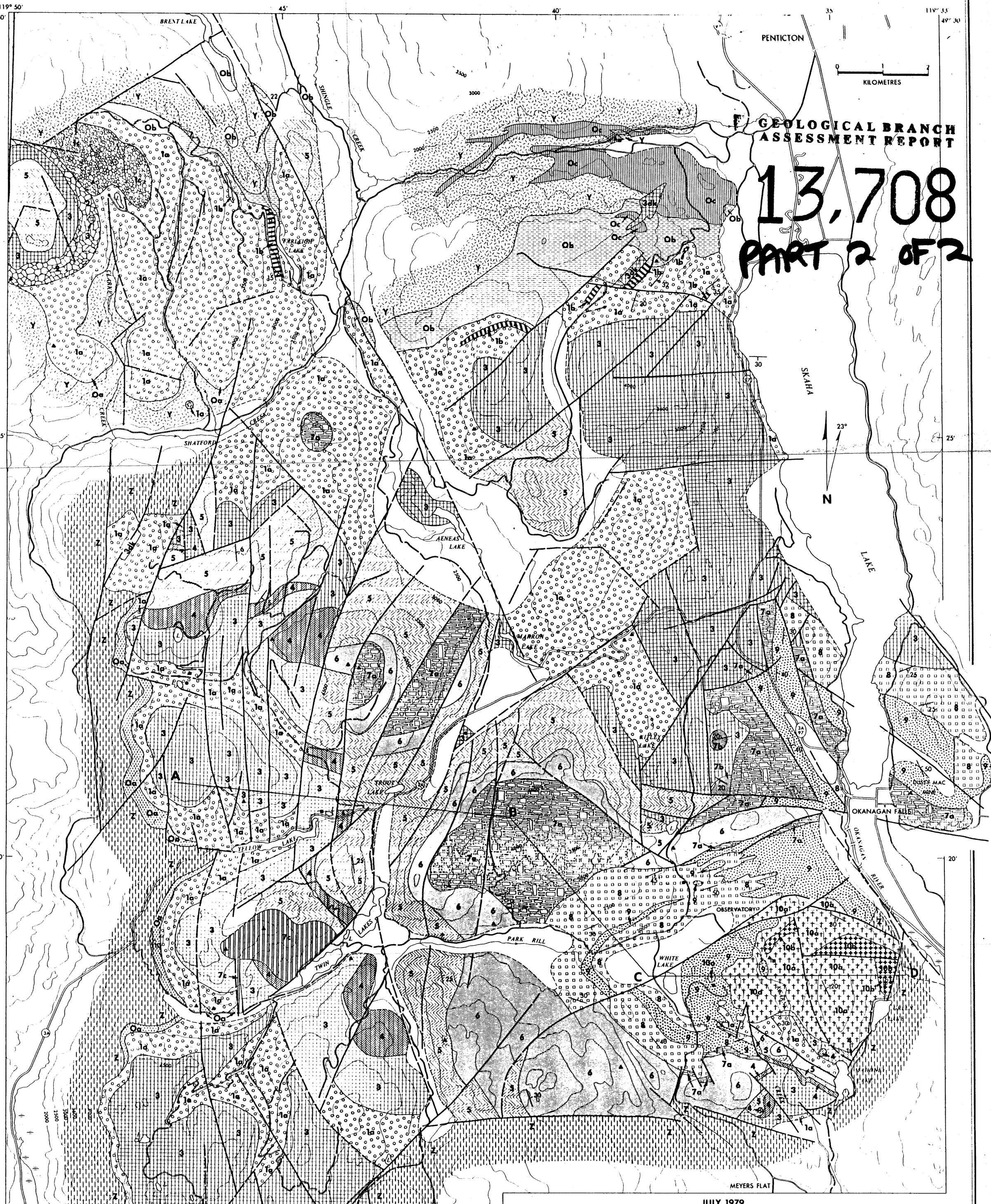
13708
PART
2 OF 2

MAPS TO ACCOMPANY
GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL
REPORT ON
DUSTY MAC - 85 GROUP
82E/5E
by
WALTER MELNYK

ESSO MINERALS CANADA
April 15, 1985



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708

PART 2 OF 2

JULY 1979

PRELIMINARY MAP 35

GEOLOGY OF THE PENTICTON TERTIARY OUTLIER

BY B. N. CHURCH

SKAHA FORMATION

- MOSTLY CHERT AND GREENSTONE SLIDE BRECCIA AND SOME TEPHRITE LAVA OVERLAIN BY POLYMICTIC FANGLOMERATE
- CHANNEL DEPOSIT OF GRANITE BOULDER CONGLOMERATE AND BRECCIA AND ARKOSIC SANDSTONES

WHITE LAKE FORMATION

- MOSTLY VOLCANIC BRECCIAS INCLUDING PYROCLASTIC ROCKS AND LAHARS, MINOR TRACHYTIC AND ANDESITIC LAVAS
- VOLCANIC CONGLOMERATE, SANDSTONES, AND SHALES

MARAMA FORMATION

- MASSIVE APHANITIC DACITE LAVA AND SOME BRECCIA FORMING MOSTLY REMNANTS OF VOLCANIC DOMES
- VOLCANIC CONGLOMERATE WITH CLASTS FROM THE MARRON FORMATION
- RHYOLITE PYROCLASTIC ROCKS AND SOME LAVA

MARRON FORMATION

- PARK RILL MEMBER: MEROCRYSTALLINE ANDESTIC LAVA AND MINOR BRECCIA
- NIMPIT LAKE MEMBER: TAN TRACHYTE AND TRACHYANDESITE LAVA AND MINOR BRECCIA
- KEARNS CREEK MEMBER: OFTEN HIGHLY VESICULAR PYROXENE–RICH BASALTIC ANDESITE LAVA
- KITLEY LAKE MEMBER: MOSTLY TRACHYANDESITE LAVA WITH CONSPICUOUS GLOMEROPHENOCRYSTIC CLOTS OF FELDSPAR

MARRON FORMATION

- SHATFORD CREEK MEMBER: LOCAL DEPOSIT OF BROWN ANDESITE LAVA AND BRECCIA WITH SOME QUARTZ–FILLED AMYGDALES
- YELLOW LAKE MEMBER: MOSTLY PYROXENE–RICH MAFIC PHONOLITE LAVA WITH LOCAL WELL–DEVELOPED PHENOCRYSTS OF RHOMB–ANORTHOCLASE AND SOME PRIMARY ANALCITE, ABUNDANT ZEOLITE FILLINGS IN CRACKS AND AMYGDALES
- PURPLE AND GREY VOLCANIC WACKE FROM EROSION OF 1a AND PINK RADIOACTIVE FELDSPATHIC TRACHYTIC ASH FLOW SANDSTONE, AND CONGLOMERATE
- CLARK CREEK PORPHYRY: A SILL–LIKE BODY RELATED TO 1a WITH COARSE FELDSPAR PHENOCRYSTS

SPRINGBROOK FORMATION

- POLYMICTIC CONGLOMERATE AND BRECCIA WITH CLASTS DERIVED MAINLY FROM PRE–TERTIARY BEDDED ROCKS

KETTLE RIVER FORMATION

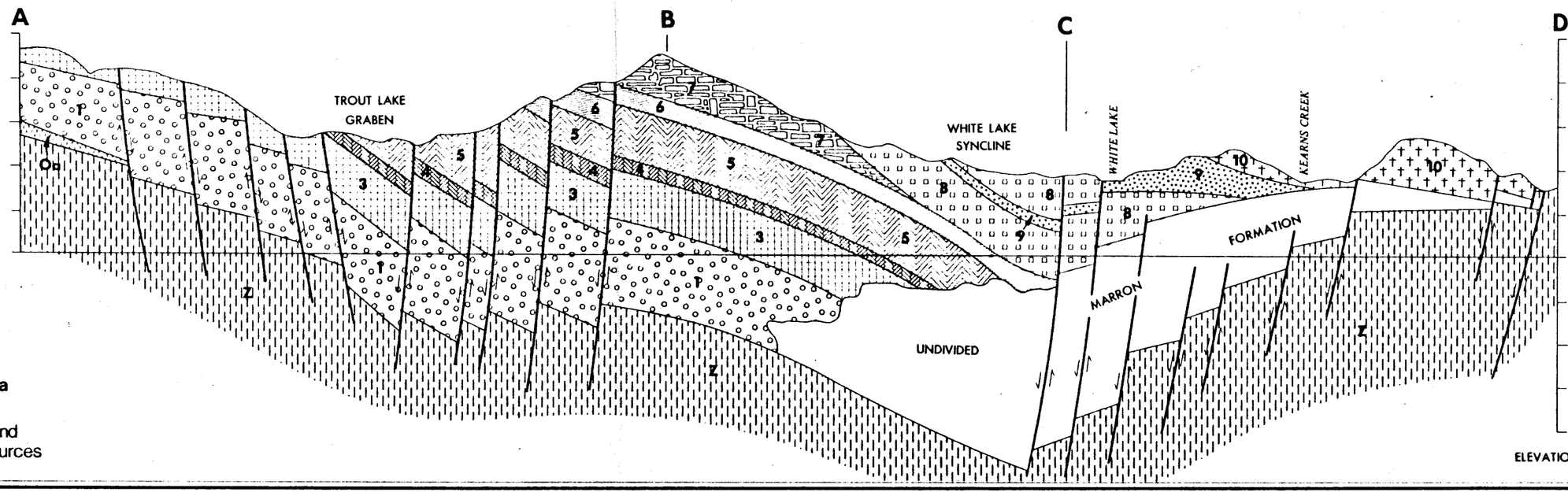
- MAINLY GRANITE BOULDER CONGLOMERATES, ARKOSE, VOLCANIC WACKE, AND RHYOLITE BRECCIA
- SHINGLE CREEK PORPHYRY: A COARSE SANIDINE QUARTZ PORPHYRY INTRUSION FEEDER TO THE RHYOLITE VOLCANICS OF 8b

PRE–TERTIARY BASEMENT ROCKS:

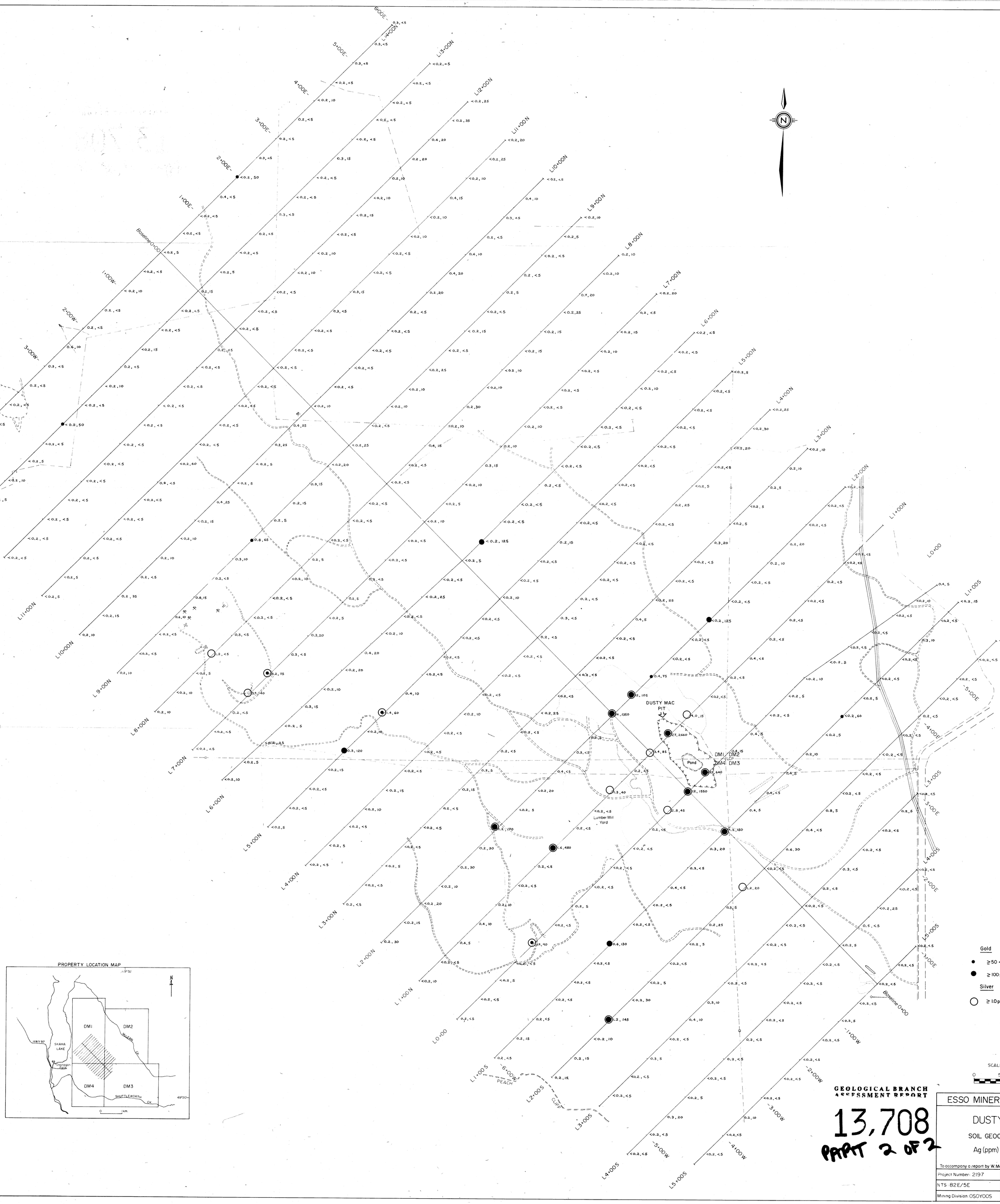
- MAINLY GRANITIC INTRUSIONS
- MAINLY CHERTS, GREENSTONES, SCHISTOSE ROCKS, AND MINOR INTRUSIONS

SYMBOLS

- DRIFT–COVERED AREA
- GEOLOGICAL BOUNDARY (APPROXIMATE)
- BEDDING: HORIZONTAL, INCLINED
- FAULT: APPROXIMATE, ASSUMED
- TOPOGRAPHICAL CONTOUR (INTERVAL, 500 FEET)
- STRUCTURE SECTION — A D
- STREAM
- MAIN ROAD
- CHEMICAL ANALYSIS STATION
- K/Ar SPECIMEN LOCALITY
- DYKE — dk
- DIAMOND–DRILL HOLE
- LAKE — L



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources



PROPERTY LOCATION MAP

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708
PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

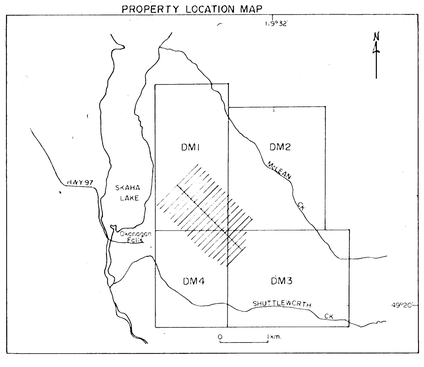
SOIL GEOCHEMISTRY

Ag (ppm), Au (ppb)

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
N.T.S.: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197 - 5

PROPERTY LOCATION MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708
PART 2 OF 2

SCALE 1:2000
0 50 100 metres

ESSO MINERALS CANADA

DUSTY MAC

SOIL SAMPLE LOCATIONS

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197-4

LEGEND

WHITE LAKE FORMATION

- 5 — Volcanic Conglomerate, Sandstone, and Shales.
- 4 — Tuff-Breccia, a) Sandstone, Shale; facies equivalent to 5.
- 3 — Blocky Feldspar Porphyry Lahar. a) Lava b) Sandstone, Shale. c) With Acc. Quartz Pebbles.
- 2 — Blocky Lahar with Accessory Dacite Fragments throughout, a) minor Tuff-Breccia and Sandstone.

MARAMA FORMATION

- 1 — Dacite Lava, Minor Breccia.

- Quartz Breccia
- Brecciated Quartz Veins (bx. qtz.)
- Tectonic Breccia

GEOLOGICAL FEATURES

- Rock outcrop
- Float, rubble
- Geological boundary (defined, approx.)
- Bedding (inclined, vertical)
- Fault (defined, approx.)
- Joint (inclined, vertical)

CULTURES

- Trench
- Adit
- Rock dump
- Old workings
- Diamond drill hole
- Driveable road
- Claim line
- Fence
- Contours (feet)
- Dry gulleys
- Lake

ALTERATION

- A — PHYLLIC: Varying intensities of quartz sericite, and pyrite
- B — PROPYLITIC: Strong epidote, chlorite, carbonate ± hematite.
- C — CARBONATE: Varying intensities, both pervasive, and fracture fillings.
- D — QUARTZ BRECCIA: Generally Massive, Milky White, sugary, brecciated quartz. Locally chalcedonic.
- E — BRECCIATED QUARTZ VEINS: Fragmented quartz veins, usually not rotated, disjointed. Veins exhibit fine laminations.
- QUARTZ VEINS: Intact quartz veins.

DRILL HOLE DATA

DUSTY MAC PIT

DDH	Interval (m)	Au (gpt)	Ag (gpt)	Depth (m)
469	1.5	0.210	0.37	1.5 - 3.0
	1.5	0.215	0.29	21.3 - 22.9
470	1.5	0.330	0.29	10.9 - 12.5
471	1.5	0.210	0.26	22.9 - 24.5
472	1.5	0.240	0.33	21.3 - 22.9
457	1.5	0.099	0.07	25.9 - 27.5

WESTERN ZONE

DDH	Interval (m)	Au (gpt)	Ag (gpt)	Depth (m)
462	1.5	0.070	0.07	24.4 - 25.9
	4.6	0.012	0.03	25.9 - 30.5
464	14.3	0.010	0.04	16.2 - 30.5
468	3.2	0.334	0.34	7.6 - 10.7
	1.5	0.240	0.12	9.1 - 10.7
467	--	--	--	--
468	3.1	0.018	0.17	3.0 - 6.1
271	--	--	--	--
276	7.6	0.018	0.20	4.6 - 12.2
	6.1	0.020	0.20	21.3 - 27.4
232	3.1	0.040	0.20	6.1 - 9.1

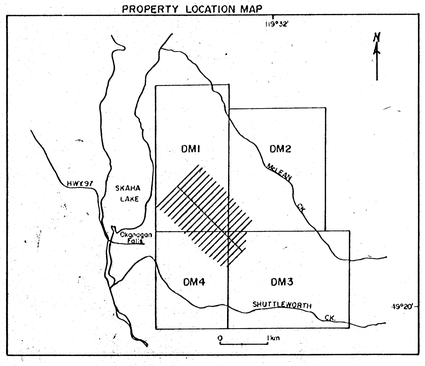
'A' ZONE

DDH	Interval (m)	Au (gpt)	Ag (gpt)	Depth (m)
131	1.5	0.130	16.70	0.6 - 2.1
132	--	--	--	--
133	--	--	--	--
473	1.5	0.460	0.62	1.5 - 3.0
474	--	--	--	--
475	--	--	--	--
276	--	--	--	--
275	--	--	--	--

NORWEST ZONE

DDH	Interval (m)	Au (gpt)	Ag (gpt)	Depth (m)
476	--	--	--	--
477	1.5	0.010	0.40	7.6 - 9.1
478				

PROPERTY LOCATION MAP



SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,708

PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

GEOLOGY
ALTERATION

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: WDM
NTS: 82E/5E	Date: Sept. 1984
Mining Division: OSOYOOS	Map Number: 2197-3

LEGEND

WHITE LAKE FORMATION

- 5 — Volcanic Conglomerate, Sandstone, and Shales.
- 4 — Tuff-Breccia, a) Sandstone, Shale; facies equivalent to 5.
- 3 — Blocky Feldspar Porphyry Lahar, a) Lava, b) Sandstone, Shale. c) With Acc. Quartz Pebbles.
- 2 — Blocky Lahar with Accessory Dacite Fragments throughout, a) minor Tuff-Breccia and Sandstone.

MARAMA FORMATION

- 1 — Dacite Lava, Minor Breccia.

- Quartz Breccia
- Brecciated Quartz Veins (bx. qtz.)
- Tectonic Breccia

GEOLOGICAL FEATURES

- Rock outcrop
- Float, rubble
- Geological boundary (defined, approx.)
- Bedding (inclined, vertical)
- Fault (defined, approx.)
- Joint (inclined, vertical)

CULTURES

- Trench
- Adit
- Rock dump
- Old workings
- Diamond drill hole
- Driveable road
- Claim line
- Fence
- Contours (feet)
- Dry gulleys
- Lake

SHELL HOLE DATA

DUSTY MAC PIT

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
469	1.5	0.010	0.27	1.5 - 3.0
	1.5	0.015	0.26	23.3 - 22.9
470	1.5	0.350	0.27	0.0 - 1.5
472	1.5	0.310	0.26	22.9 - 24.4
473	1.5	0.040	0.33	24.4 - 25.9
457	1.5	0.595	0.07	25.9 - 27.4

WESTERN ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
462	1.5	0.070	0.37	24.4 - 25.9
	4.6	0.012	0.03	25.9 - 30.5
463	14.3	0.010	0.04	16.2 - 30.5
466	3.2	0.336	0.74	2.1 - 5.6
	1.5	0.240	0.27	9.1 - 10.7
467	--	--	--	--
468	3.1	0.018	0.17	3.0 - 6.1
271	--	--	--	--
276	7.6	0.018	0.20	4.6 - 12.2
	6.1	0.020	0.20	21.3 - 27.4
272	3.1	0.040	0.20	6.1 - 9.1

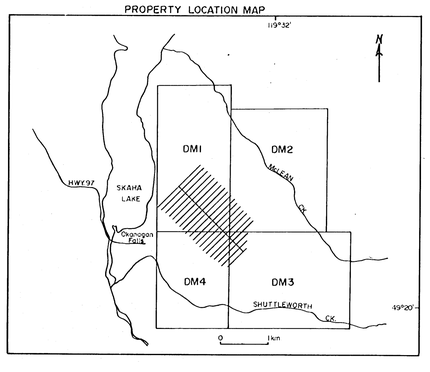
'A' ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
131	1.5	0.130	16.70	0.6 - 2.1
132	--	--	--	--
135	--	--	--	--
273	--	--	--	--
475	1.5	0.460	0.62	1.5 - 3.0
47-	--	--	--	--
475	--	--	--	--
274	--	--	--	--
275	--	--	--	--

NORWEST ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
476	--	--	--	--
477	1.5	0.010	0.40	7.6 - 9.1
478				

PROPERTY LOCATION MAP



SCALE 1:2000

0 50 100 metres

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,708

PART 2 OF 2

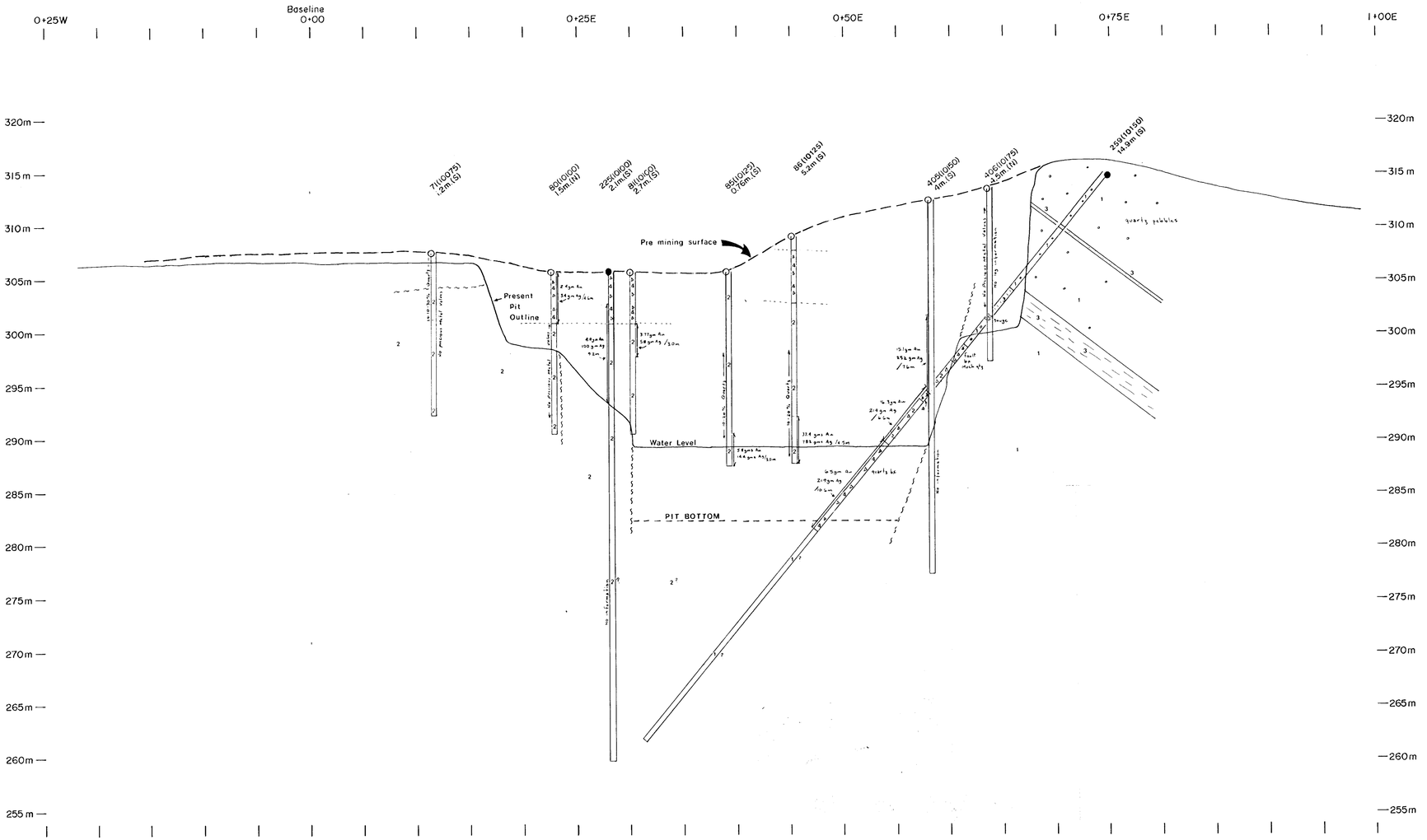
ESSO MINERALS CANADA

DUSTY MAC

GEOLOGY

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: WDM
NTS: 82E/5E	Date: Sept. 1984
Mining Division: OSOYOOS	Map Number: 2197 - 2



LEGEND

- 1 — LAHAR; May be brecciated, muddy volcanic agglomerate, mudflow
- 2 — BASIC LAVA; Generally massive, also brecciated.
- 3 — SHALE, SANDSTONE, Black, shaly, slickensided, carbonaceous to arkosic sandstone.
- 4 — QUARTZ BRECCIA; Green and black matrix, locally containing volcanic component.

○ Percussion drill hole
● Diamond drill hole

405(1050) 4m(S) — 405-Drill hole number. (1015O)-Dusty Mac drill hole section. 4m(S)-Distance in metres south of section (or north(N)).

7.06,157/1.5 — Grams/tonne Au, grams/tonne Ag / Interval

SCALE 1:250

0 5 10m.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ESSO MINERALS CANADA

DUSTY MAC
PIT SECTION
(Looking NW)
SECTION 0+25N

Project No 2197	Mining Div OSOYOOS
NTS 82E/5E	Drawn By W. MELNYK
Date DEC. 1984	Map No 2197 – 10

LEGEND

WHITE LAKE FORMATION

- Upper Lahar unit / quartz pebbles
- 2 Andesitic Flow
- 3 Shale
- 4 Sandstone
- 5 Quartz breccia

- Fault trace, relative movement.
- Strike and dip of fault plane.
- Strike and dip of stratigraphy.
- Much faulting, shearing.
- Badly broken, brecciated ground.
- Broken ground, talus, dump material, waste.
- Broken, segmented qtz. veins.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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SCALE 1:250

0 5 10 metres

ESSO MINERALS CANADA

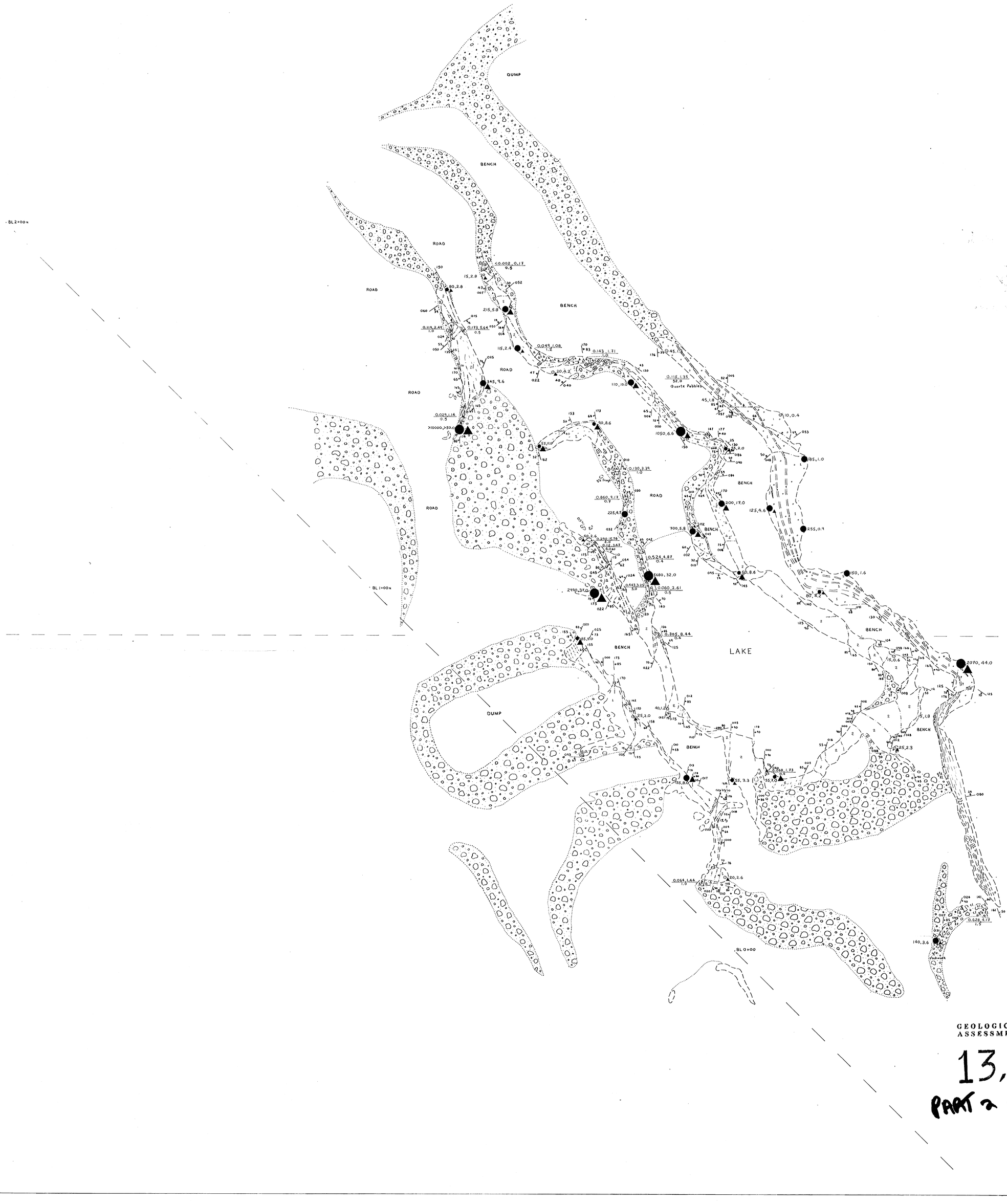
DUSTY MAC

PIT

LITHOGEOCHEMISTRY AND ASSAY LOCATIONS

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS 82E/5E	Date: Aug. 1 1984
Mining Division-OSOYOOS	Map Number: 2197 – 11



LEGEND

WHITE LAKE FORMATION

- Upper Lahar unit / quartz pebbles
- 2 Andesitic Flow
- 3 Shale
- 4 Sandstone
- 5 Quartz breccia
- Fault trace, relative movement.
- Strike and dip of fault plane.
- Strike and dip of stratigraphy
- Much faulting, shearing
- Badly broken, brecciated ground
- Broken ground, talus, dump material, waste.
- Broken, segmented qtz veins.

GOLD

- • >50 < 100ppb
- ● >100 < 1000ppb
- ● >1000

SILVER

- ▲ >2 < 5ppm
- ▲ >5 < 30ppm
- ▲ >30ppm
- ⊙ Litho Au (ppb), Ag (ppm)
- ⊢⊣ Assay Au (opt), Ag (opt) / Length (m)

SCALE 1:250

0 5 10 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ESSO MINERALS CANADA

DUSTY MAC
PIT
Au, Ag Geochemistry

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS 82E/5E	Date: Aug. 1 1984
Mining Division: OSOYOOS	Map Number: 2197 – 12

LEGEND

WHITE LAKE FORMATION

- Upper Lahar unit / quartz pebbles.
- 2 Andesitic Flow
- 3 Shale
- 4 Sandstone
- 5 Quartz breccia

- Fault trace, relative movement.
- Strike and dip of fault plane.
- Strike and dip of stratigraphy.
- Much faulting, shearing
- Badly broken, brecciated ground
- Broken ground, talus, dump material, waste.
- Broken, segmented qtz veins.

K_2O / TiO_2

- ♦ <10
- ◇ >10 < 15
- ◇ >15 < 20
- ◇ >20

SCALE 1:250

0 5 10 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

PIT

LITHOGEOCHEMISTRY

K_2O / TiO_2

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS 82E/5E	Date: Aug. 1 1984
Mining Division: OSOYOOS	Map Number: 2197 – 13

LEGEND

WHITE LAKE FORMATION

- Upper Lahar unit / quartz pebbles.
- 2 Andesitic Flow
- 3 Shale
- 4 Sandstone
- 5 Quartz breccia

- Fault trace, relative movement.
- Strike and dip of fault plane.
- Strike and dip of stratigraphy.
- Much faulting, shearing
- Badly broken, brecciated ground
- Broken ground, talus, dump material, waste.
- Broken, segmented qtz. veins.

Rb / Sr

- ◆ <0.3
- ◇ >0.3 < 0.45
- ◇ ≥0.45

SCALE 1:250

0 5 10 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ESSO MINERALS CANADA

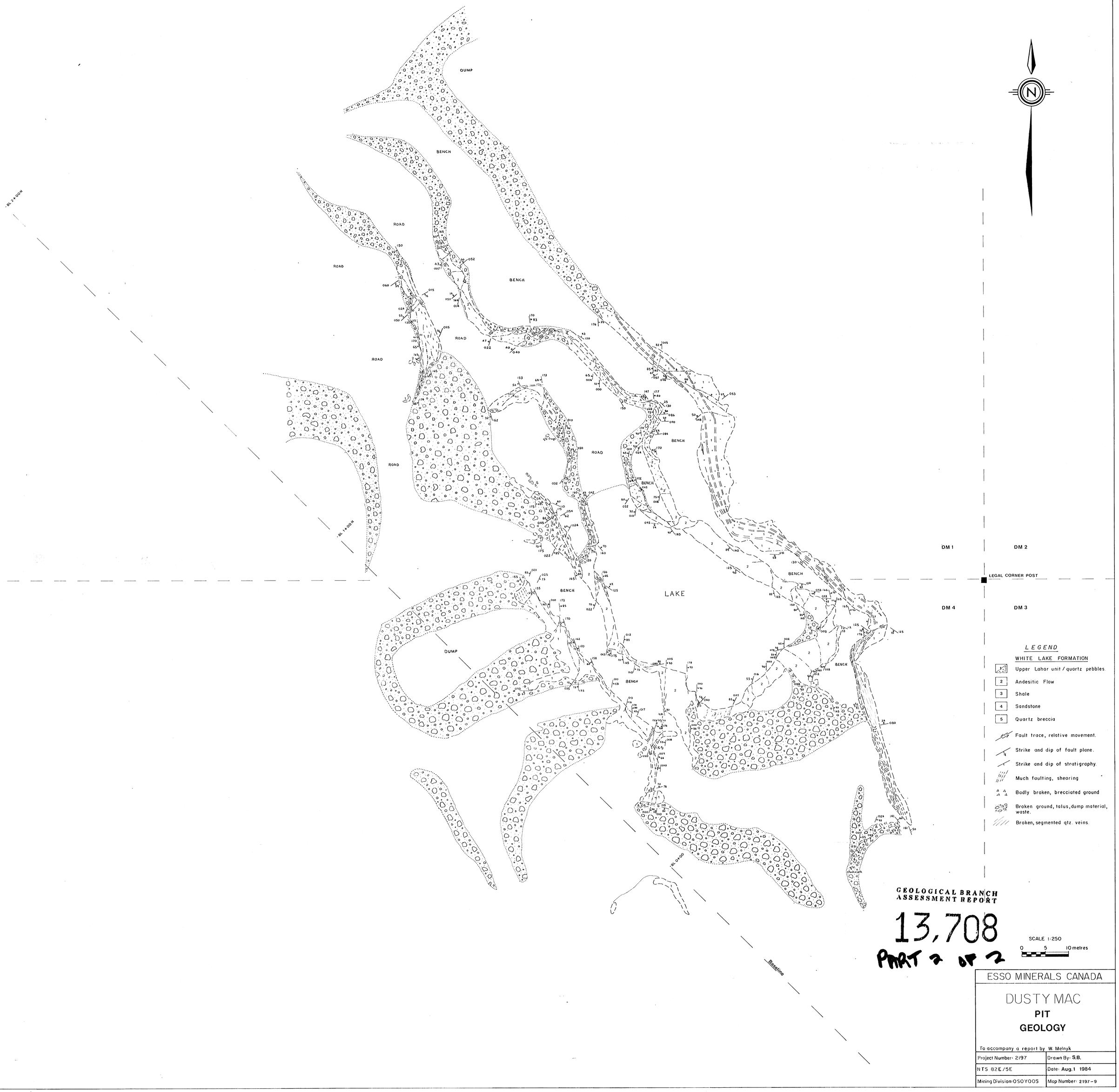
DUSTY MAC

PIT

LITHOGEOCHEMISTRY
Rb , Sr (ppm)
(Rb/Sr)

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS 82E/5E	Date: Aug.1 1984
Mining Division: OSOYOOS	Map Number: 2197 – 14



LEGEND

WHITE LAKE FORMATION

- Upper Lahar unit / quartz pebbles.
- 2 Andesitic Flow
- 3 Shale
- 4 Sandstone
- 5 Quartz breccia
- Fault trace, relative movement.
- Strike and dip of fault plane.
- Strike and dip of stratigraphy.
- Much faulting, shearing
- Badly broken, brecciated ground
- Broken ground, talus, dump material, waste.
- Broken, segmented qtz. veins.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708

PART 2 OF 2

SCALE 1:250

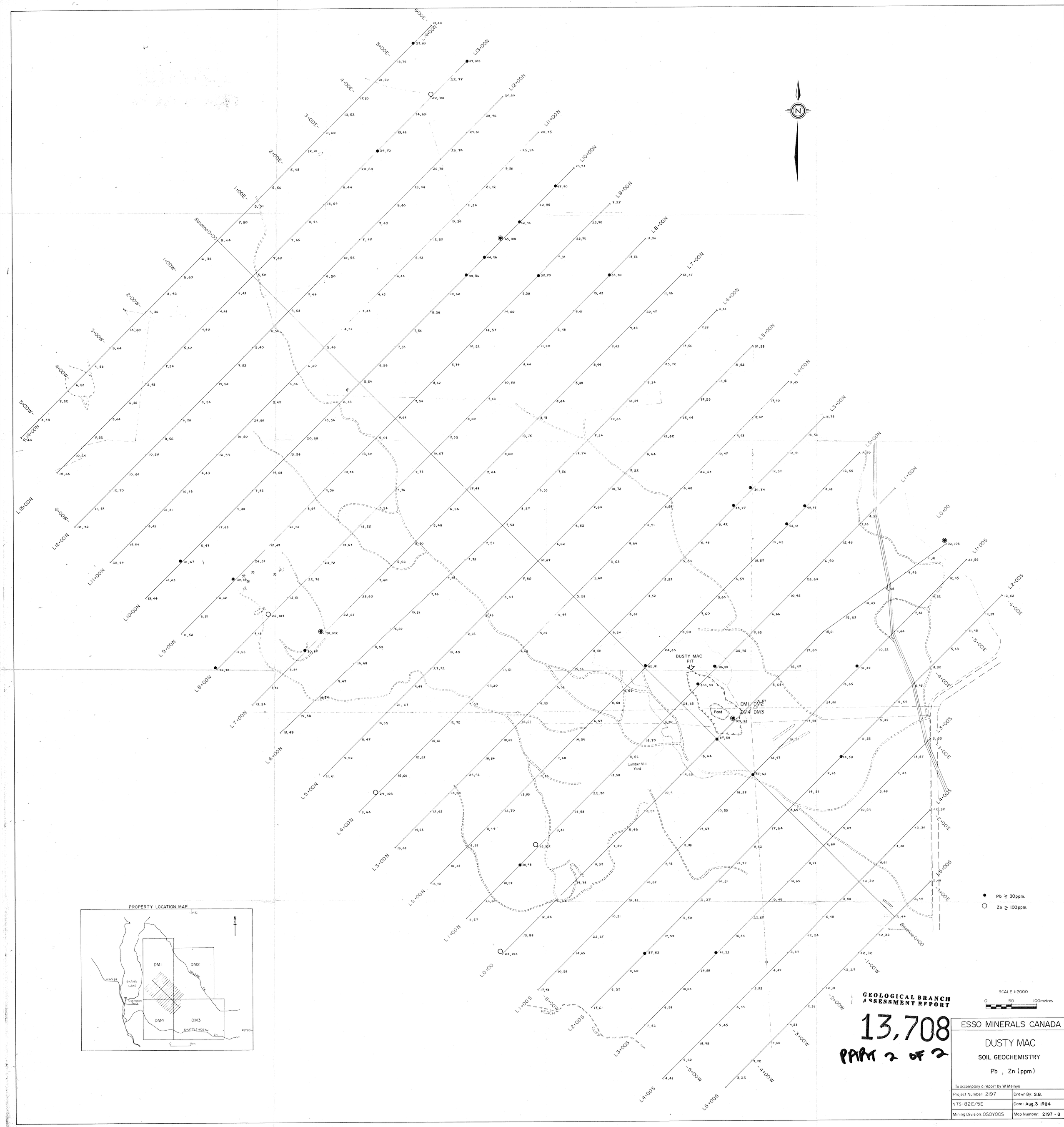
0 5 10 metres

ESSO MINERALS CANADA

DUSTY MAC
PIT
GEOLOGY

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS 82E/5E	Date: Aug.1 1984
Mining Division-OSOYOOS	Map Number: 2197-9



PROPERTY LOCATION MAP

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708

PART 2 OF 2

ESSO MINERALS CANADA

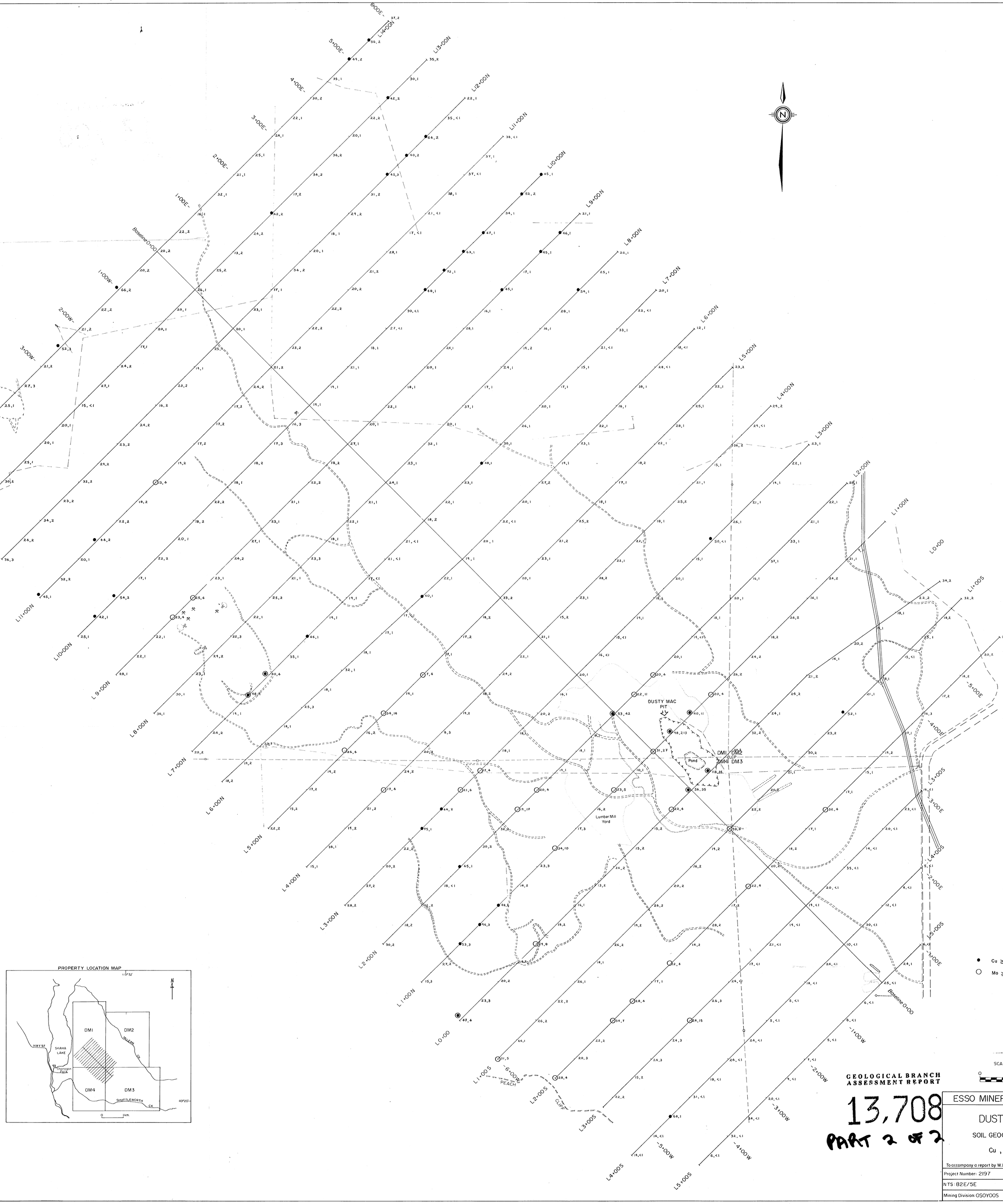
DUSTY MAC

SOIL GEOCHEMISTRY

Pb , Zn (ppm)

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197 - 8



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

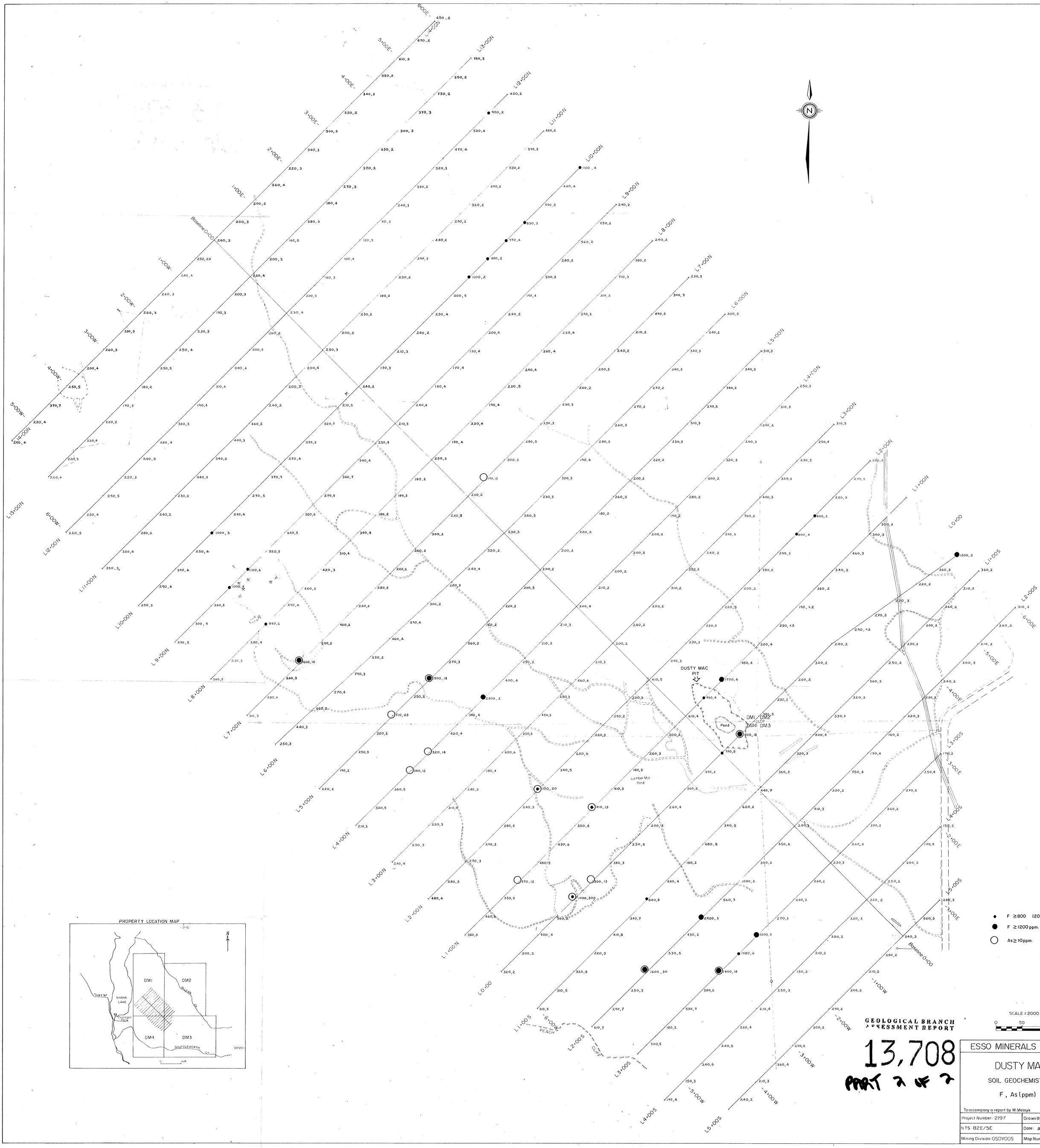
DUSTY MAC

SOIL GEOCHEMISTRY

Cu , Mo (ppm)

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197 - 7



PROPERTY LOCATION MAP

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

SCALE 1:2000
0 50 100metres

ESSO MINERALS CANADA

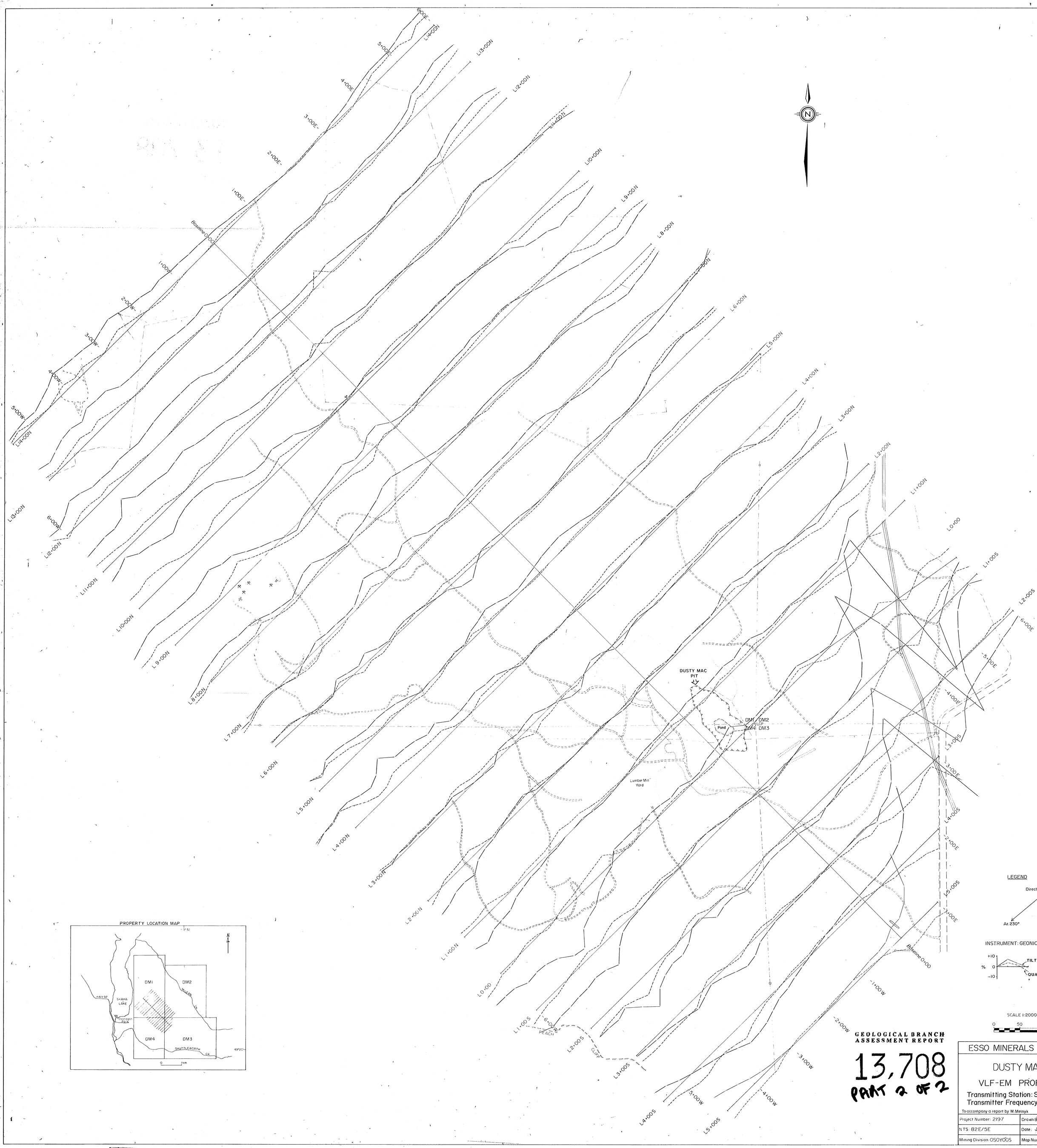
DUSTY MAC

SOIL GEOCHEMISTRY

F , As (ppm)

To accompany a report by W.Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197 - 6



PROPERTY LOCATION MAP

LEGEND

Direction To Station

Az. 230°

INSTRUMENT: GEONICS EM-16

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ESSO MINERALS CANADA

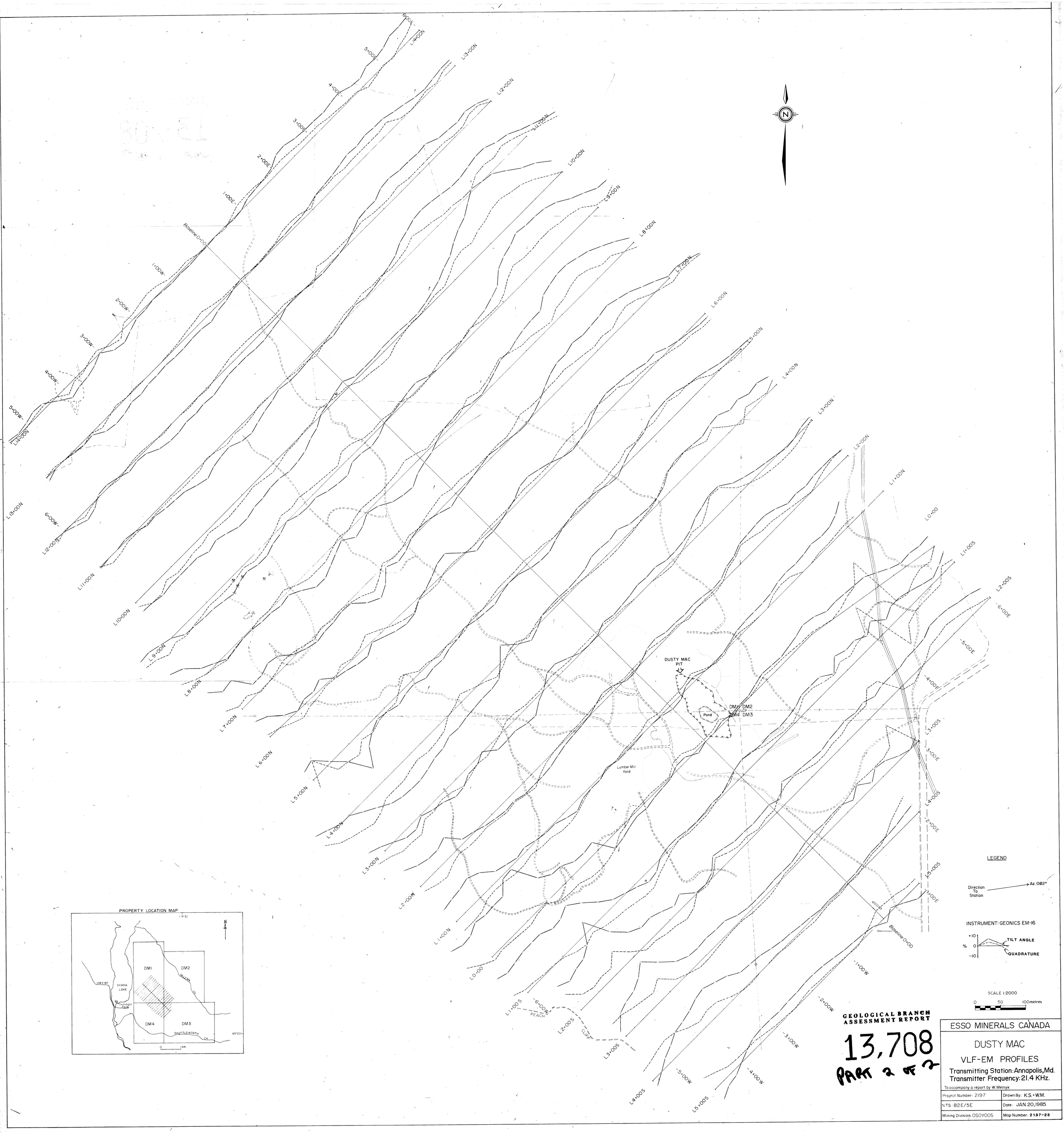
DUSTY MAC

VLF-EM PROFILES

Transmitting Station: Seattle, Wash.
Transmitter Frequency: 18.6 KHz.

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: K.S. + W.M.
N.T.S. 82E/5E	Date: JAN. 20, 1985
Mining Division: OSOYOOS	Map Number: 2197-22



PROPERTY LOCATION MAP

LEGEND

Direction To Station → Az. 082°

INSTRUMENT: GEONICS EM-16

+10
% 0
-10
TILT ANGLE
QUADRATURE

SCALE 1:2000

0 50 100 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

VLF-EM PROFILES

Transmitting Station: Annapolis, Md.
Transmitter Frequency: 21.4 KHz.

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: K.S. + W.M.
NTS: 82E/5E	Date: JAN. 20, 1985
Mining Division: OSOYOOS	Map Number: 2197-23

ZONE 1

ZONE 2

ZONE 3

Baseline 0+00

DUSTY MAC PIT

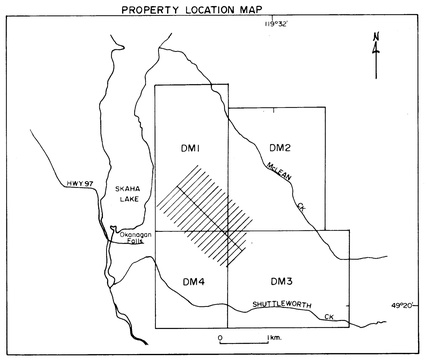
DM1 DM2 DM4 DM3

Pond

Lumber Mill Yard

PEACH CLIFF

PROPERTY LOCATION MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708
PART 2 of 2

SCALE 1:2000
0 50 100metres

ESSO MINERALS CANADA

DUSTY MAC
FILTERED VLF-EM DATA
$(\theta_3+\theta_4)-(\theta_1+\theta_2)$

Transmitter: Seattle, Wash.
Frequency: 18.6 KHz.

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: K.S. + W.M.
NTS: 82E/5E	Date: JAN. 20, 1985
Mining Division: OSOYOOS	Map Number: 2197 - 24

ZONE 1

ZONE 2

ZONE 3

Baseline 0+00

Lumber Mill Yard

DM1 DM2 DM3 DM4

PEACH CLIFF

SKAHA LAKE

HWY 97

Okanagan Falls

SHUTTLEWORTH CK

SCLICAN CK

49°20'

119°32'

PROPERTY LOCATION MAP

0 km.

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

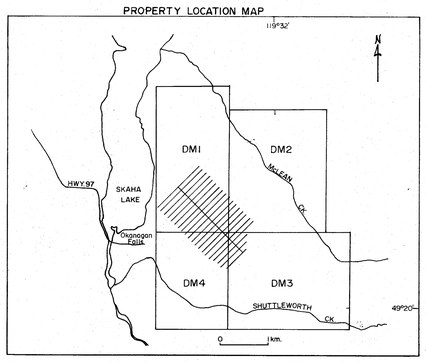
DUSTY MAC
FILTERED VLF-FM DATA
$(\Theta_3 + \Theta_4) - (\Theta_1 + \Theta_2)$

Transmitter : Annapolis, Md.
Frequency : 21.4 KHz

To accompany a report by W.Meinyk

Project Number: 2197	Drawn By: K.S. , W.M.
NTS: 82E/5E	Date: FEB. 1985
Mining Division: OSOYOOS	Map Number: 2197 - 25

PROPERTY LOCATION MAP



BACKGROUND OF 57500 γ_s REMOVED

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

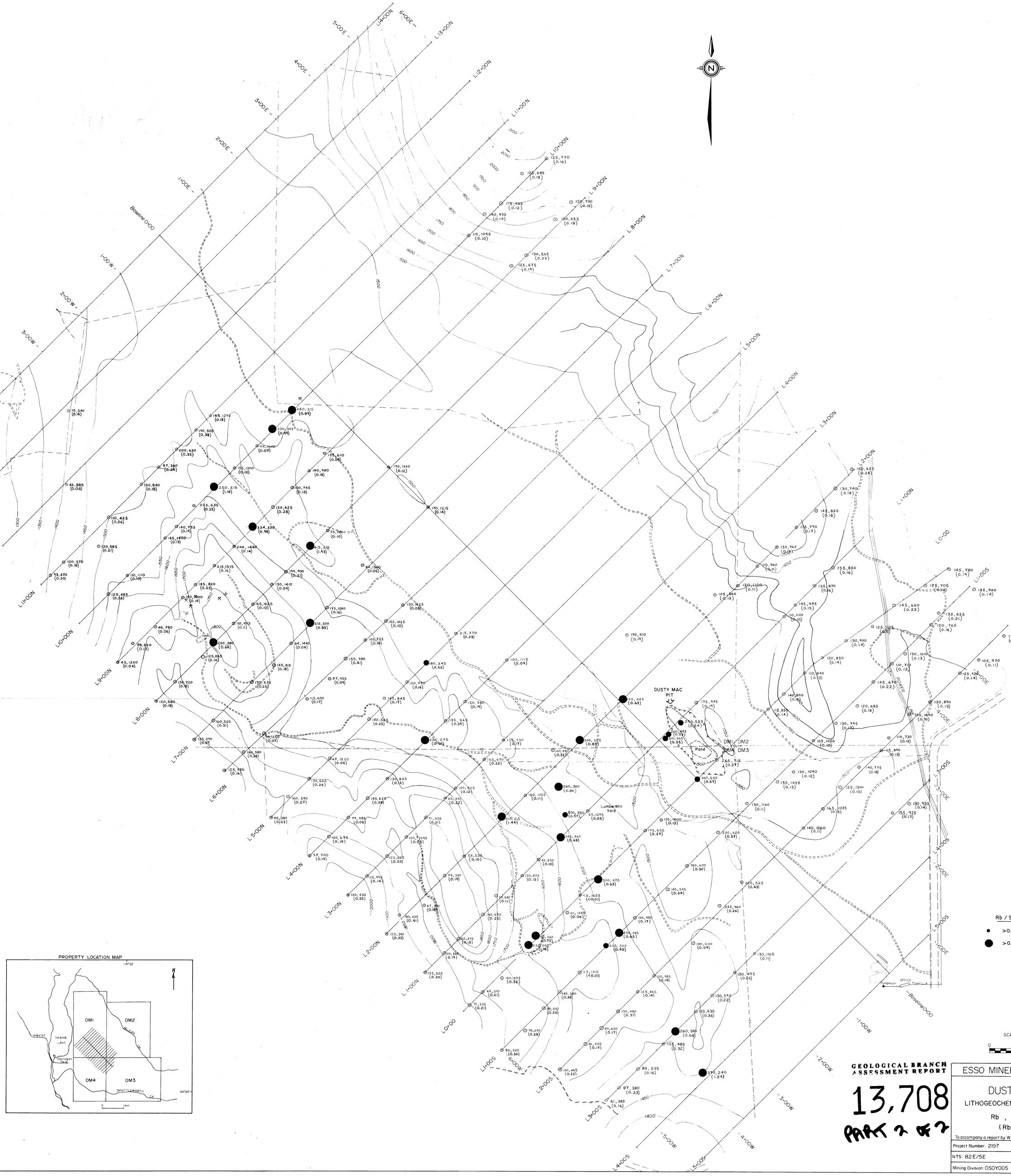
ESSO MINERALS CANADA

DUSTY MAC

RESIDUAL MAGNETIC FIELD STRENGTH

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: K.S. , W.M.
NTS: 82E/5E	Date: FEB. 1985
Mining Division: OSOYOOS	Map Number: 2197-21



GEOLOGICAL BRANCH ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

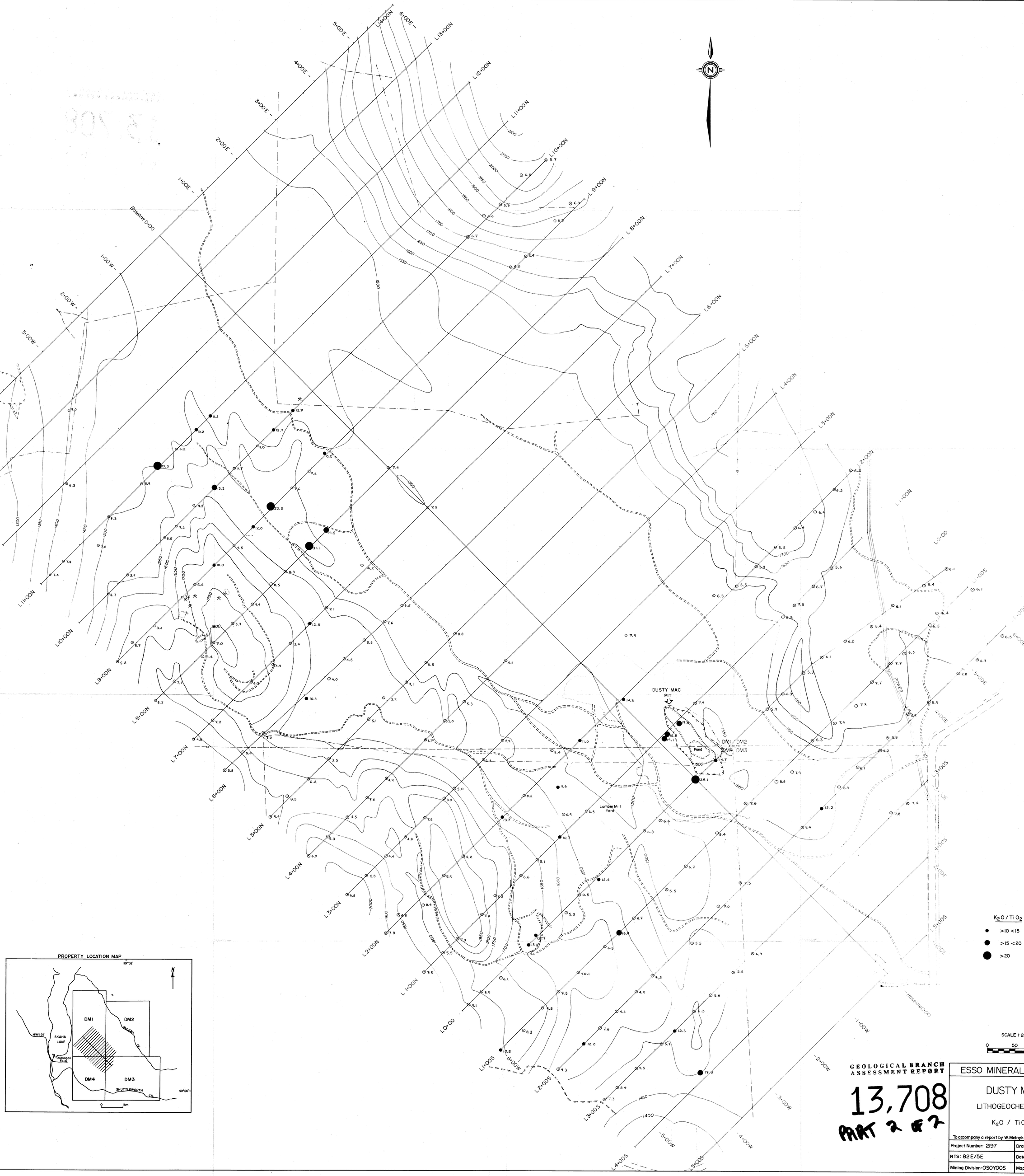
LITHOGEOCHEMISTRY RESULTS

Rb , Sr (ppm)

(Rb/Sr)

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug. 3 1984
Mining Division: OSOYOOS	Map Number: 2197-20



PROPERTY LOCATION MAP

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH ASSESSMENT REPORT

13,708

PART 2 OF 2

ESSO MINERALS CANADA

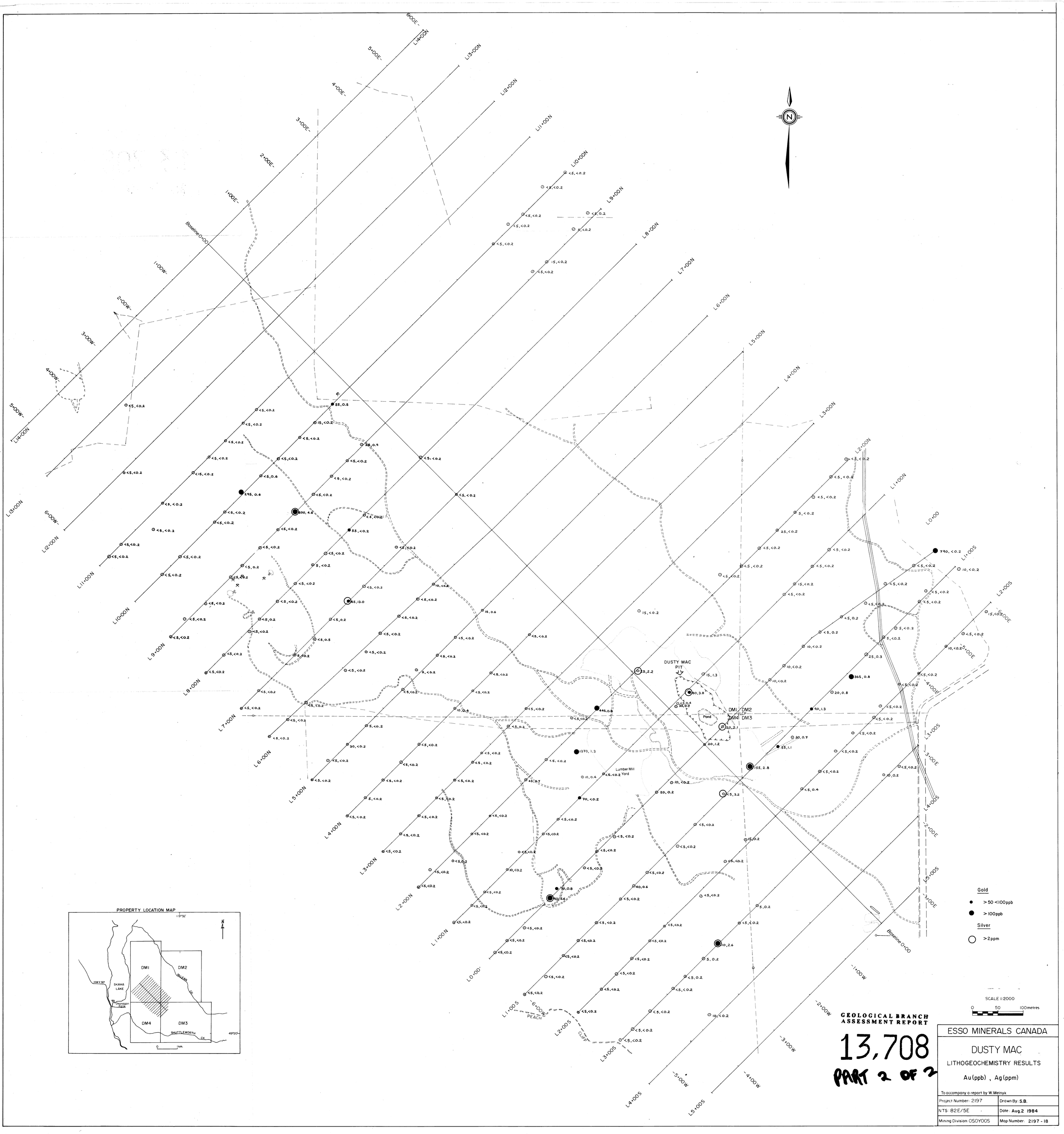
DUSTY MAC

LITHOGEOCHEMISTRY

K_2O / TiO_2

To accompany a report by W.Melnyk

Project Number: 2197	Drawn By:
NTS: 82E/5E	Date: 20/1/85
Mining Division: OSOYOOS	Map Number: 2197-19



PROPERTY LOCATION MAP

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

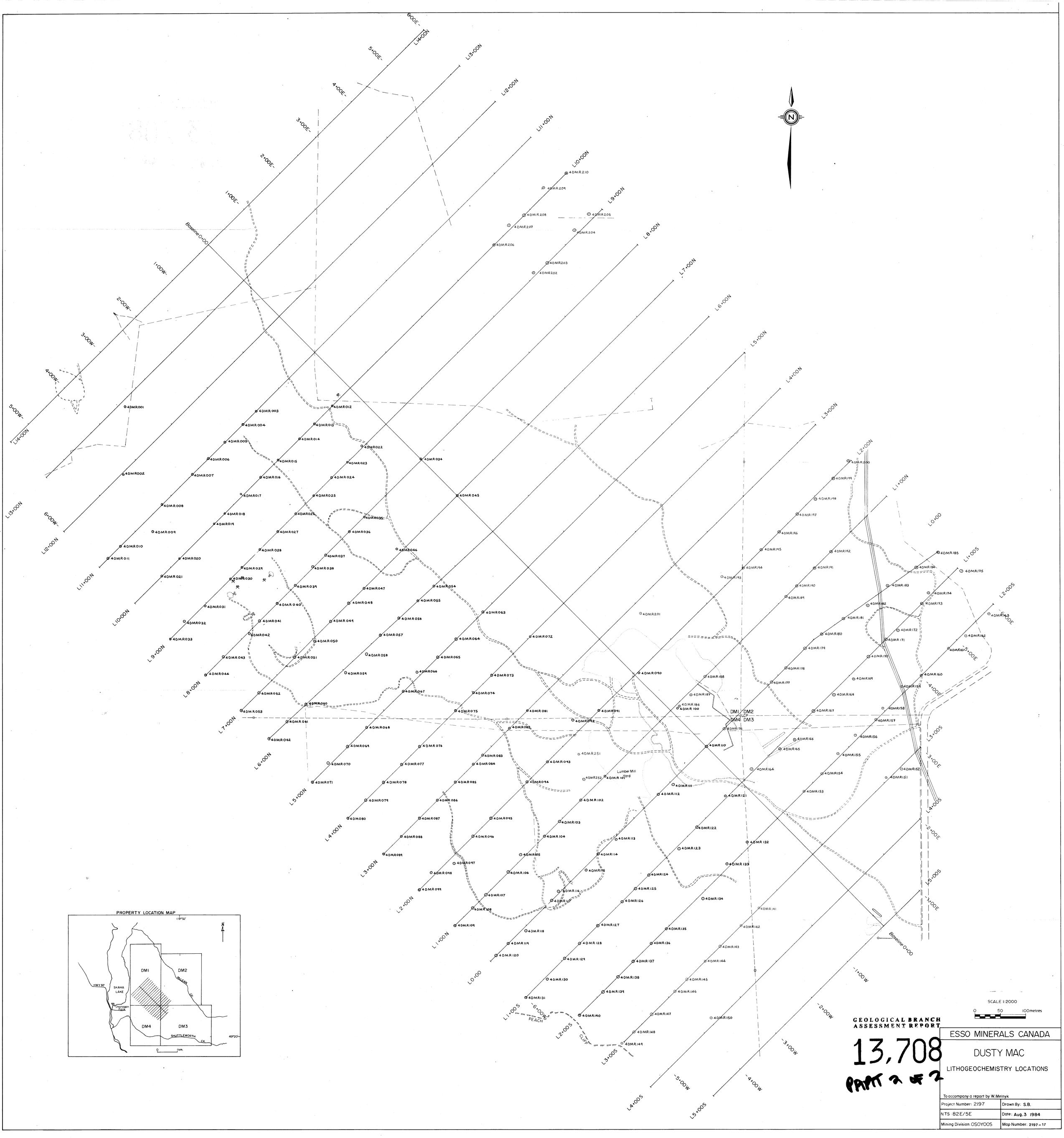
DUSTY MAC

LITHOGEOCHEMISTRY RESULTS

Au(ppb) , Ag(ppm)

To accompany a report by W.Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug.2 1984
Mining Division: OSOYOOS	Map Number: 2197 - 18



PROPERTY LOCATION MAP

SCALE 1:2000

0 50 100metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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PART 2 OF 2

ESSO MINERALS CANADA

DUSTY MAC

LITHOGEOCHEMISTRY LOCATIONS

To accompany a report by W.Melnyk

Project Number: 2197	Drawn By: S.B.
NTS: 82E/5E	Date: Aug.3 1984
Mining Division: OSOYOOS	Map Number: 2197 – 17

LEGEND

WHITE LAKE FORMATION

- 5 — Volcanic Conglomerate , Sandstone , and Shales.
- 4 — Tuff-Breccia , a) Sandstone , Shale ; facies equivalent to 5.
- 3 — Blocky Feldspar Porphyry Lahar , a) Lava b) Sandstone , Shale . c) With Acc. Quartz Pebbles.
- 2 — Blocky Lahar with Accessory Dacite Fragments throughout , a) minor Tuff-Breccia and Sandstone.

MARAMA FORMATION

- 1 — Dacite Lava , Minor Breccia.

- Quartz Breccia
- Brecciated Quartz Veins (bx. qtz.)
- Tectonic Breccia

GEOLOGICAL FEATURES

- Rock outcrop
- Float , rubble
- Geological boundary (defined , approx.)
- Bedding (inclined , vertical)
- Fault (defined , approx.)
- Joint (inclined , vertical)

CULTURES

- Trench
- Adit
- Rock dump
- Old workings
- Diamond drill hole
- Driveable road
- Claim line
- Fence
- Contours (feet)
- Dry gulleys
- Lake

DRILL HOLE DATA

DUSTY MAC PIT

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
469	1.5	0.015	0.17	1.5 - 3.0
	1.5	0.011	0.04	21.3 - 22.9
470	1.5	0.310	0.27	0.0 - 1.5
471	1.5	0.110	0.16	22.9 - 24.4
472	1.5	0.240	0.33	25.9 - 27.4
457	1.5	0.035	0.07	25.9 - 27.4

WESTERN ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
462	1.5	0.070	0.07	24.6 - 25.9
	4.6	0.012	0.03	25.9 - 30.5
464	14.7	0.010	0.04	16.0 - 30.5
466	3.1	0.334	0.34	0.4 - 3.6
	3.1	0.049	0.12	9.1 - 12.7
467	--	--	--	--
468	3.1	0.018	0.17	3.0 - 6.1
271	--	--	--	--
276	7.6	0.018	0.20	4.6 - 12.2
	6.1	0.020	0.20	21.3 - 27.4
272	3.1	0.040	0.20	6.1 - 9.1

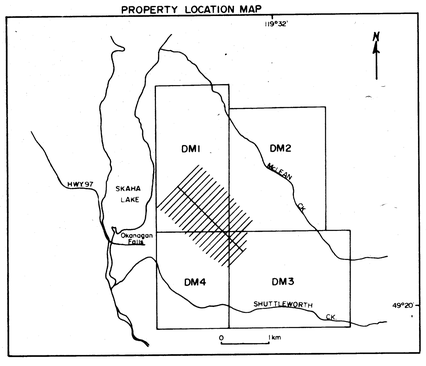
'A' ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
131	1.5	0.130	16.70	0.6 - 2.1
132	--	--	--	--
134	--	--	--	--
273	--	--	--	--
473	1.5	0.460	0.62	1.5 - 3.0
474	--	--	--	--
475	--	--	--	--
274	--	--	--	--
275	--	--	--	--

NORWEST ZONE

DDH	Interval (m)	Au (opt)	Ag (opt)	Depth (m)
476	--	--	--	--
477	1.5	0.010	0.40	7.6 - 9.1
478	--	--	--	--

PROPERTY LOCATION MAP



GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708

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SCALE 1:2000

0 50 100 metres

ESSO MINERALS CANADA

DUSTY MAC

GEOLOGY
ASSAY LOCATIONS

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: WDM
NTS: 82E/5E	Date: Sept. 1984
Mining Division: OSOYOOS	Map Number: 2197 - 16

L1+00N

L0+00

ESSO GRID BASELINE

DUSTY MAC MINES GRID

Baseline

-10400 -10375 -10350 -10325 -10300 -10275 -10250 -10225 -10200 -10175 -10150 -10125 -10100 -10075 -10050 -10025 -10000 -9975 -9950 -9925 -9900 -9875 -9850 -9825 -9800

Mon.1 Mon.2 Mon.3

NOTE :
ALL FAULTS ARE ASSUMED

N

LEGEND

- Percussion Drill hole
- 9.2 — Diamond Drill hole with foot x ounce factor
- 10 / 5 — Foot x ounce contours
- Fault trace (Assumed)
- Mon.1 — Concrete location monument

PART 2 OF 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,708

SCALE
0 20 40 60 feet

ESSO MINERALS CANADA

DUSTY MAC
ORE ZONE

GOLD (ft. x oz/T)
CONTOUR MAP

To accompany a report by W. Melnyk

Project Number: 2197	Drawn By: K.S. & S.B.
NTS: 82E / 5E	Date: Sept. 4 1984
Mining Division: OSOYOOS	Map Number: 2197 - 15