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ESSO MINERALS CANADA

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BY COURIER

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MV: 473.B  
July 17, 1987

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Gentlemen:

**PROGRESS REPORT - TWIN PROPERTY - JUNE, 1987**

I have included a progress report on our work on the Twin Property that is joint ventured with your groups.

We had an interesting intersection in Twin 3. However, three placed around it, Twin 4-6 inclusive, failed to offer much encouragement. Assays to date are incomplete, however, gold assays for significant intervals have been completed and are reported in the accompanying pages. Base metal assays are incomplete, but are expected to be low and of little interest.

Please do not hesitate to phone if you have any questions.

Yours sincerely,

J.A. McDonald  
Exploration Manager  
Western Region

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Encl.

## WORK SUMMARY - JUNE, 1987

### TWIN PROJECT

**Grid Work:** 5.1 line km of VLF surveying was completed along proportions of the "Rea" and "Silver" zones to detail graphic markers that are used to spot drill hole collars.

Detailed grid mapping and ground evaluation of 9 EM conductors was completed on the Twin Mountain showing. This old showing occurs in a different rock package than the "Rea" and "Silver" zones; it is only of peripheral interest at this time.

**Trenches:** Eight trenches (400 m) were excavated on the Twin claims in an attempt to expose the "Rea" and "Silver" zones. Excessive overburden depth prevented successful completion of many of these trenches. However, sufficient work was done to indicate that the "Silver" zone does not project across the Twin ground in recognizable form.

**Diamond Drilling:** To month end, 4 holes (321.7 m) had been completed of a planned 8-9 hole (1200 m) program. Holes 5 and 6, incorporated in this summary, were completed July 4.

Twin 1 was drilled to intersect the "Silver Zone"; this zone was absent in the hole although the foot and hanging walls were intersected. Twin 2-6 inclusive were drilled on the "Rea Zone" as indicated on the accompanying diagram.

A significant interval of mineralization was cut in Hole 3 (see attached). Our drilling to date around this hole indicates that the Twin 3 intersection may have only limited continuity. It does, however, confirm the potential for mineralization on the property.

Diamond drilling is continuing and will be reported on in monthly progress reports.

To date, assays are incomplete although results have been obtained and are included for the most significant intervals. Base metal values, yet to come for Twin 2, 4, 5 and 6 are low by visual estimates.

**TWIN 2**

Coordinates: 3+72S, 79+97E  
Azimuth: 225  
Inclination: 45°  
Total Length: 118.9m

SUMMARY LOG

<u>Interval</u>	<u>Lithology</u>
0 - 4.6 m	Overburden
4.6 - 53.3 m	Fine-grained mafic flows and lesser lean lapilli
53.3 - 68.0 m	Major fault or strain facies
68.0 - 100.6 m	Vesicular mafic flow
100.6 - 105.1 m	Sericitic chert
105.1 - 107.3 m	Pyritic tuff
107.3 - 118.9 m	Quartzites wackes and turbidites
118.9 m	End of Hole

**TWIN 3**

Coordinates: 5+20S, 77+65E  
Azimuth: 225  
Inclination: -60°  
Total Length: 79.9m

SUMMARY LOG

<u>Interval</u>	<u>Lithology</u>
0 - 3.7 m	Casing
3.7 - 21.5	Green/buff vesicular volcanic flows
21.5 - 59.6 m	"Rea" Horizon: sericitic tuffs, cherts and black clastics
59.6 - 62.8 m	Pyritic tuff
62.8 - 65.1 m	Bedded barite with massive sulphides
65.1 - 68.3 m	Pyritic tuff
68.3 - 79.9 m	Quartz wackes and interbedded black turbidites
79.9 m	End of Hole

#### TWIN 4

Coordinates: 5+20S, 77+65E  
Azimuth: 225  
Inclination: -90°  
Total Length: 135.2m

#### SUMMARY LOG

<u>Interval</u>	<u>Lithology</u>
0 - 3.0 m	Casing
3.0 - 31.6 m	Carbonitized mafic flow
31.6 - 107.3 m	Sericitic chert and lesser chert breccias
107.7 - 121.7 m	Pyritic tuff
121.7 - 135.2 m	Quartz wackes, black clastics, turbidite cycles
135.2 m	End of Hole

#### TWIN 5

Coordinates: 4+90S, 76E  
Azimuth: 225  
Inclination: -45°  
Total Length: 153.9m

#### SUMMARY LOG

<u>Interval</u>	<u>Lithology</u>
0 - 7.9 m	Casing
7.9 - 21.9 m	Mafic lapilli pyroclastic
21.9 - 30.3 m	Sericitic mafic ash flow
30.3 - 44.5 m	Porphyritic mafic flows
44.5 - 48.5 m	Sericitic silica injected fault zone
48.5 - 62.2 m	Mafic ash flow with lesser lapilli fragment
62.2 - 90.9 m	Quartz-carbonate injected mafic volcanic flow
90.9 - 124.1 m	Sericitic tuffaceous cherts, pyritic chert breccias and lesser interbedded black clastics
124.1 - 126.9 m	Pyritic tuff
126.9 - 131.7 m	Pyritic siltite
131.7 - 132.9 m	Quartz wackes
132.9 - 138.1 m	Pyritic cherts and grey chert breccias
138.1 - 140.6 m	Pyritic tuff
140.6 - 142.6 m	Grey pyritic cherts
142.6 - 147.5 m	Pyritic tuff
147.5 - 147.8 m	Fault
147.8 - 153.9 m	Intermediate lapilli
153.9 m	End of Hole

**TWIN 6**

Coordinates: 4+25S, 78+75E  
Azimuth: 225  
Inclination: -45°  
Total Length: 160.3m

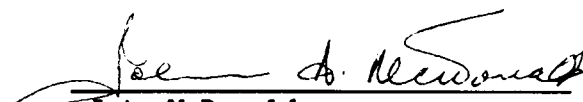
SUMMARY LOG

<u>Interval</u>	<u>Lithology</u>
0 - 4.9 m	Casing
4.9 - 38.3 m	Carbonitized: mafic flow
38.3 - 53.0 m	Quartz-carbonate injected sericitized mafic flow
53.0 - 60.2 m	Porphyritic mafic flow
60.2 - 64.8 m	Carbonate injected mafic flow
64.8 - 102.2 m	Porphyritic-vesicular mafic flows
102.2 - 106.5 m	Black chert - tuffaceous sericitic chert
106.5 - 114.2 m	Sericitic pyritized mafic flow
114.2 - 149.9 m	Sericitic tuffaceous chert - pyritic chert breccias lesser black clastics
149.9 - 150.2 m	Pyritic tuff
150.2 - 150.6 m	Grey pyritic cherts
150.6 - 150.8 m	Pyritic tuff
150.8 - 160.3 m	Turbidites, wackes and conglomerates
160.3 m	End of Hole

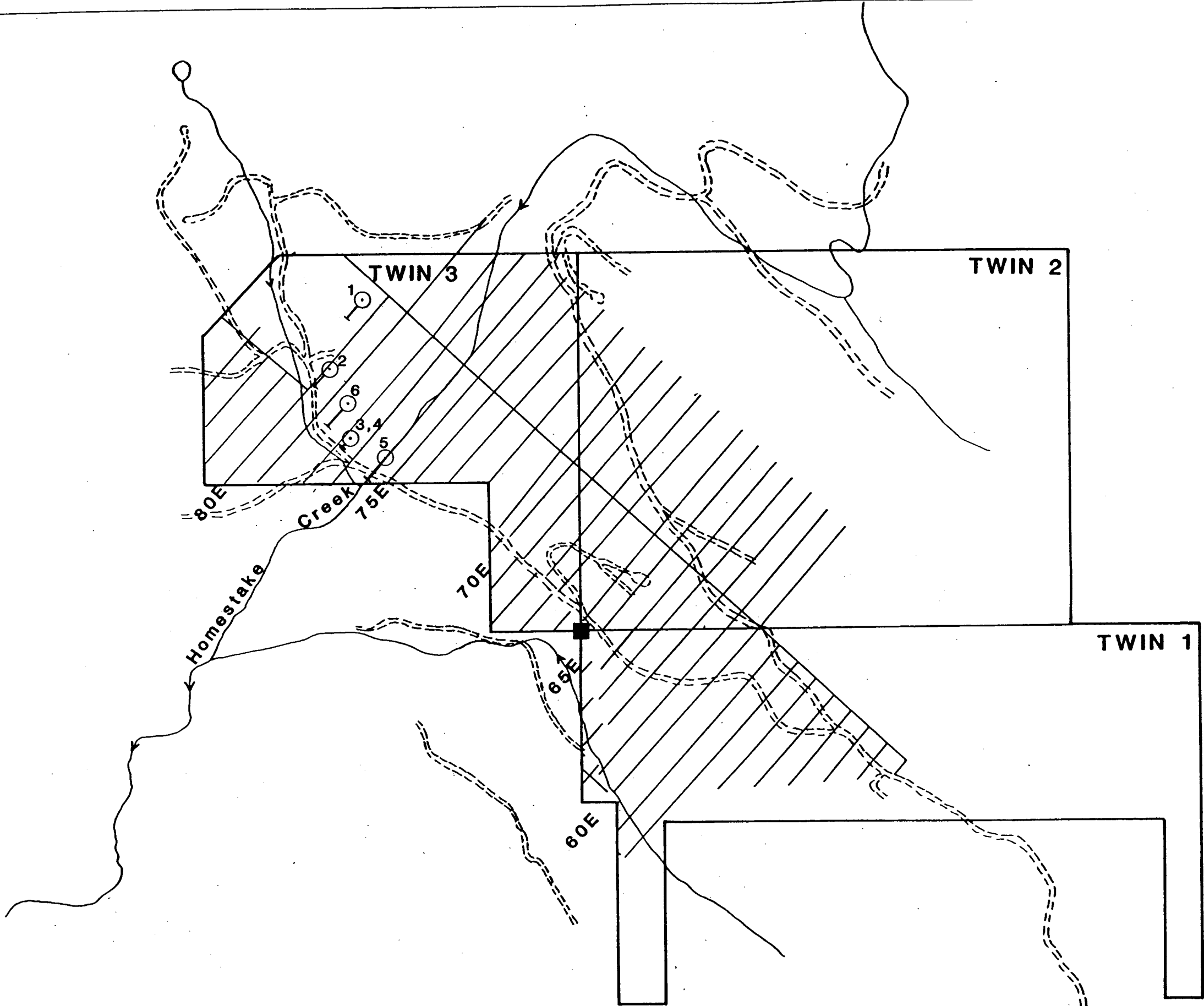
ASSAY VALUES TO DATE

DRILL HOLES TWIN 2 - 6 INCLUSIVE

<u>HOLE</u>	<u>FROM</u> (m)	<u>TO</u> (m)	<u>INTERVAL</u> (m)	<u>Ag</u> (g/t)	<u>Au</u> (g/t)	<u>% Cu</u>	<u>% Pb</u>	<u>% Zn</u>
TWIN 2								
"REA ZONE"	101.2	102.7	1.5		0.07			
	102.7	104.0	1.3		0.13			
	104.0	105.2	1.2		0.02			
	106.9	107.3	0.4		1.83			
TWIN 3								
"REA ZONE"	55.6	56.5	0.9	51.8	0.62	0.17	5.2	0.75
	59.0	59.5	0.5	39.1	0.98	0.47	3.1	0.76
	59.5	60.5	1.0	6.2	1.08	0.05	0.4	0.26
	60.5	62.0	1.5	35.6	2.81	0.21	1.1	0.65
	62.0	62.85	0.85	72.3	43.15	0.07	2.2	0.76
	62.85	63.85	1.0	398.0	19.84	0.41	1.9	0.77
	63.85	65.0	1.2	7.2	0.84	0.01	0.07	0.15
	65.0	66.5	1.5	2.2	0.61	0.01	0.01	0.02
TWIN 4								
"REA ZONE"	71.1	72.6	1.5		0.06			
	84.8	85.6	0.8		0.03			
	92.3	93.1	0.8		0.07			
	102.2	103.0	0.8		0.23			
TWIN 5								
"REA ZONE"	114.5	116.0	1.5		0.09			
TWIN 6								
"REA ZONE"	123.6	125.1	1.5		0.17			
	125.1	126.6	1.5		0.09			
	128.0	129.3	1.3		0.15			
	143.8	145.2	1.4		0.12			
	149.5	151.0	1.5		0.54			

  
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REVISIONS

By	Date	Apprv. By

**ESSO MINERALS CANADA**  
**TWIN PROPERTY**  
**Diamond Drill Locations**  
**To July 4**

0 500m

To accompany a report by

Project No: 117	Report No:
Mining Div: Kamloops	NYS 82M/4W
Survey By:	Drafted By:
Date:	Map No: