



ESSO MINERALS CANADA

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File: MA17.A.05  
September 8, 1987

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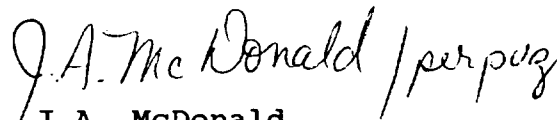
Gentlemen:

**SUBJECT: PROGRESS REPORT - AUGUST, 1987 - TWIN PROPERTY**

Enclosed is our report on the Twin Property activities for the month of August.

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

Yours sincerely,

  
J.A. McDonald  
Exploration Manager  
Western Region

/pvz  
567.B

Encl.

cc: J.M. Marr

## TWIN PROPERTY

### PROGRESS REPORT - AUGUST, 1987

#### GENERAL

Work on the Twin Property has been completed for the year. Final assay results on all holes drilled are not yet available, however, we do not anticipate that economically significant values will be returned. To date, the only interesting intersections are those from Twin 3 and Twin 9, as previously reported.

Some reclamation work has begun on the property and is focussed on drill roads, drill sites and trenches put in earlier in the season.

Although data collected this year is still to be evaluated, we remain encouraged by what we see on the property and anticipate more work will be done in the coming year.

#### GRID WORK

Twenty humus samples have been taken across the lens found in Twin 3 and Twin 9 holes to provide an orientation survey. If results are positive, we may extend this type of work next year.

#### DIAMOND DRILLING

A total of 8 additional holes (1057.3 m) were drilled in the month of August. The total drilled to date is 18 holes (1841.8 m). These are summarized in the following pages. As supplied to you in an interim report for August, assay values from the mineralized intersection on Twin 9 are as follows:

<u>From</u> (m)	<u>To</u> (m)	<u>Width</u> (m)	<u>g/t Au</u>	<u>g/t Ag</u>	<u>% Pb</u>	<u>% Zn</u>	<u>% Cu</u>
80.6	81.4	0.8	5.59	104.1	3.50	4.40	0.78
81.4	82.2	0.8	9.45	127.5	2.50	3.10	0.37
82.2	83.0	0.8	11.32	600.0	2.21	1.90	0.50
Average over 2.4 m			<u>8.79</u>	<u>277.3</u>	<u>2.74</u>	<u>3.13</u>	<u>0.55</u>

A summary of drill hole locations and depths is provided in Table 1. Also included are summary logs for holes 11 to 18 inclusive. A property map shows the location of the August drill collars on the property.

*J.A. McDonald /pvz*  
J.A. McDonald, Exploration Manager  
Western Region

September 8, 1987

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**TABLE 1 TWIN PROPERTY, 1987 DRILLHOLES**

DDH #	NORTHING	EASTING	ELEVATION	DEPTH	DIP	AZM
TWIN 1	0+80 S	80+65 E	1391m	187.7m	-45°	225°
TWIN 2	3+72 S	79+97 E	1389m	118.9m	-45°	225°
TWIN 3	5+20 S	77+65 E	1361m	79.9m	-60°	225°
TWIN 4	5+20 S	77+66 E	1361m	135.2m	-90°	
TWIN 5	4+90 S	76+00 E	1363m	153.9m	-45°	225°
TWIN 6	4+25 S	78+75 E	1381m	160.3m	-45°	225°
TWIN 7	0+69 S	69+27 E	1412m	132.9m	-45°	225°
TWIN 8	3+73 S	66+96 E	1381m	111.6m	-45°	225°
TWIN 9	4+99 S	78+01 E	1369m	90.2m	-45°	225°
TWIN 10	4+99 S	78+01 E	1369m	157.6m	-90°	
TWIN 11	5+07 S	77+22 E	1359m	73.4m	-45°	225°
TWIN 12	5+07 S	77+22 E	1359m	139.3m	-90°	
TWIN 13	4+35 S	77+78 E	1379m	164.9m	-60°	225°
TWIN 14	4+73 S	78+30 E	1374m	136.2m	-60°	225°
TWIN 15	4+73 S	78+30 E	1374m	174.3m	-90°	
TWIN 16	4+50 S	79+50 E	1390m	142.0m	-60°	225°
TWIN 17	4+25 S	78+75 E	1390m	163.4m	-60°	225°
TWIN 18	5+36 S	78+30 E	1367m	64.0m	-60°	225°

Note: Drillholes 9 to 18 were drilled in August.

DRILLHOLE: Twin 11

COORDINATES:

AZIMUTH: 225° DIP: -45°

DEPTH: 73.4M HORIZONTAL PROJ:

VERT PROJ:

START: Aug 1 FINISH: Aug 2, 1987.

FROM	TO	ROCK
0.0	6.1	OVERBURDEN
6.1	13.2	MAFIC LAPILLI TUFFS
	9.25	10.0 INTERMEDIATE LAPILLI TUFFS: PY 1-3%
13.2	31.2	INTERMEDIATE TUFFS
	23.7	24.0 QZ-DOL VEIN BRECCIA
	30.2	30.3 QZ-DOL VEIN: PY 1%
31.2	40.2	SERICITIC ASH TUFF AND FELSIC LAPILLI TUFF
	31.2	32.5 CHLORITIC TUFF
	32.5	33.7 INTERBEDDED CHLORITIC AND SERICITIC TUFF: PY 5%
	33.7	34.7 LAMINATED SERICITIC TUFF: PY 10%
	34.7	36.4 CHLORITIC TUFF WITH PYRITIC STRINGERS: PY 7%
40.2	46.1	FAULT BRECCIA
46.1	50.3	SERICITIC TUFF: PY 5-10%
	46.1	46.8 ARGILLITE
	48.0	48.1 LAMINATED PYRITIC CHERT: PY 15%
50.3	53.5	MASSIVE GREY CHERT: PY 8%
	50.3	50.5 CHERT BRECCIA WITH ANKERITE LAMINAE: PY 25%
	53.4	53.5 SEMI-MASSIVE PYRITE: 40% PY IN A CHERT MATRIX
53.5	54.3	PYRITIC ARGILLITE/FELSIC TUFF: PY 1%
54.3	55.5	FELSIC TUFF: PY 10%
55.5	56.1	INTERBEDDED PYRITIC ARGILLITE AND SERICITIC TUFF
56.1	59.6	PYRITIC FELSIC LAPILLI TUFF: PY 20%, SP 5%,
59.6	61.4	PYRITIC FELSIC TUFF: SP TR-3%, PY 20%.
	60.6	60.8 ARGILLITE BAND
	61.3	61.4 MINERALIZED TUFF BRECCIA: PY 15%, SP 10%, CP 1%, GL 1-3%, AS 1-5%, TT TR-1%.
61.4	66.2	PYRITIC TUFFS: PY 15%
66.2	68.7	PYRITIC SILTITE ("MUDDY TUFF"): PY 40%
	66.2	67.9 FAULT
68.7	73.4	BLACK CLASTICS
73.4	73.4	END OF HOLE

PURPOSE: Test for continuation of the Twin 3 zone to the southeast.

RESULTS: Weak galena and sphalerite mineralization was intersected in a felsic tuff breccia horizon (59.4-61.4m).

DRILLHOLE: Twin 12

COORDINATES: 77+22E, 5+07S AZIMUTH: 225° DIP: -90°

DEPTH: 140.2M HORIZONTAL PROJ: VERT PROJ:

START: Aug 2 FINISH: Aug 4, 1987.

<u>FROM</u>	<u>TO</u>	<u>ROCK</u>
0.0	3.0	OVERBURDEN
3.0	8.2	INTERMEDIATE/MAFIC TUFF
	6.8 8.2	FAULT
8.2	16.7	BLEACHED MAFIC VOLCANICS
	12.2 12.8	SERICITIZED AND CARBONATIZED MAFIC ROCK: PY 1-3%
16.7	17.9	FAULT
	17.5 17.7	QZ VEIN: PY TR.
17.9	25.4	INTERMEDIATE TUFF
	16.7 16.9	QZ STRINGERS
	25.1 25.4	FAULT
25.4	32.1	BEDDED FELSIC ASH TUFFS (40%) AND INTERMEDIATE TUFFS (60%): PY 5%
32.1	34.6	FAULT BRECCIA
34.6	48.6	INTERMEDIATE CRYSTAL TUFF: PY TR
	44.8 48.6	BRECCIA (TECTONIC): PY 3%
48.6	55.0	FAULT BRECCIA: PY TR
	49.5 49.7	SILICIFIED DOLOMITE VEIN BRECCIA
	54.2 55.0	QUARTZ VEIN STOCKWORK: PY 1-3%, TT <1%
55.0	59.9	SILICIFIED FELSIC TUFFS
	56.6 58.6	CHERT WITH GRAPHITIC ARGILLITE BANDS: PY <1%
	58.5 59.9	FINELY BANDED PYRITIC ARGILLITE, SERICITIC TUFF AND GREY CHERT:
59.9	73.0	RIBBON BANDED CHERT
	60.7 70.2	FAULT
73.0	89.7	SERICITIC TUFF: PY 5-10%
	75.0 75.7	INTERBEDDED PYRITIC CHERT AND ARGILLITE: PY 5-10%, SL <1%.
	75.7 76.3	TECTONIC BRECCIA IN CHERT-ARGILLITE
	77.1 77.9	FAULT BRECCIA
	77.9 80.3	TUFFACEOUS CHERT WITH PYRITIC SILTITE BANDS: PY 20%
	84.0 84.3	FAULT
	88.1 89.0	FAULT
89.7	93.0	PYRITIC SILTITE (MUDDY TUFF): PY 40%
	91.2 91.7	FELSIC LAPILLI TUFF
93.0	96.2	FELSIC ASH TUFF
	94.5 94.6	FAULT
	65.1 96.2	FAULT BRECCIA
96.2	117.5	SERICITIC TUFF: PY 5%
	116.0 117.5	BANDED FELSIC ASH TUFF: PY 15%
117.5	118.3	FAULT
118.3	123.1	PYRITIC SILTITE: PY 40-50%
123.1	140.2	BLACK ARGILLITE
140.2	140.2	END OF HOLE

PURPOSE: Test for possible easterly plunge to the Twin lens.

RESULTS: Significant clastic input dilutes Rea stratigraphy.  
No significant mineralization was encountered at target horizon.

DRILLHOLE: Twin 13

COORDINATES: 77+78E, 4+35S AZIMUTH: 225° DIP: -60°

DEPTH: 164.9M HORIZONTAL PROJ: VERT PROJ:

START: Aug 5 FINISH: Aug 7, 1987.

FROM	TO	ROCK
0.0	3.7	OVERBURDEN
3.7	29.9	MAFIC-INTERMEDIATE TUFFS
	3.7 3.9	FAULT
	5.9 7.3	FAULT
	8.4 13.8	CARBONATIZED MAFIC TUFF: PY 20%
	15.7 16.0	CARBONATIZED MAFIC TUFF: PY TR
29.9	35.3	BLEACHED MAFIC TUFF: PY 5-10%
35.3	42.3	CARBONATIZED MAFIC TUFFS
	37.2 38.6	INTENSLY CARBONATIZED MAFIC (?) TUFFS: PY 10%
42.3	50.7	INTERMEDIATE TO FELSIC LAPILLI AND CRYSTAL TUFFS: PY 5-10%
	43.5 43.6	QZ-CB VEIN
	46.2 46.3	QZ VEIN
50.7	73.4	FELSIC ASH TUFF: PY <1%
	52.6 53.0	FAULT BRECCIA
	53.9 54.5	FAULT BRECCIA
73.4	78.5	INTERMEDIATE FELDSPAR CRYSYAL TUFF: PY 1-3%
	78.2 78.4	FAULT
78.5	84.0	FAULT BRECCIA
84.0	95.0	SERICITIC TUFF
	87.9 88.5	BLACK PYRITIC CHERT: PY 10%
	94.4 94.9	GREY CHERT: PY 5%, SL TR
95.0	108.0	SERICITIC TUFF WITH CHERT INTERBEDS: PY 15%
	98.5 99.3	FAULT
105.1	105.6	BLACK ARGILLITE
108.0	111.5	BLACK RIBBON BANDED CHERTS
	108.0 108.7	CHERT BRECCIA: PY TR
111.5	123.3	MASSIVE GREY CHERT: PY 5% SL+GL+AS 1%
	120.2 120.8	MINERALIZED CHERT: PY 10%, SL 3%, GL 1%, AS TR, TT TR
	121.6 121.7	DOLOMITE VEIN: SL 5%, GL 1%, PY 3%, AS TR
123.3	127.0	SERICITIC TUFF
	124.8 125.5	RIBBON BANDED CHERT
127.0	129.0	INTERBEDDED WACKE AND PYRITIC SILTITE: PY 5-10%
	127.2 127.3	DOLOMITE VEIN
	127.3 128.1	FELDSPAR CRYSTAL ASH TUFF
129.0	149.0	SERICITIC FELSIC LAPILLI TUFF
	137.6 138.7	PYRITIC SILTITE (MUDDY TUFF): PY 35%
	143.6 145.1	CHERTY TUFF/GREY CHERT: PY 1-3%, SL 1%, GL+AS+TT 1%
	144.2:	CP TR, SL 1-3%, GL <1%
	147.7 148.0	SEMI-MASSIVE SULPHIDE: PY 60%, GL+SL <1%
149.0	157.4	PYRITIC SILTITE (MUDDY TUFF)
157.4	164.9	INTERBEDDED BLACK ARGILLITES AND WACKES



162.9 163.9 FAULT BRECCIA  
164.9 164.9 END OF HOLE

PURPOSE: Test for possible northwest plunge to Twin Lens.

RESULTS: Well developed grey chert at target horizon. Weak galena, sphalerite and tetrahedrite mineralization over 0.6m interval (120.2-120.8m).

DRILLHOLE: Twin 14

COORDINATES: 78+30E, 4+73S AZIMUTH: 225<sup>o</sup> DIP: -60<sup>o</sup>

DEPTH: 136.2M HORIZONTAL PROJ: VERT PROJ:

START: Aug 5 FINISH: Aug 9, 1987.

FROM	TO	ROCK
0.0	3.6	OVERBURDEN
3.6	24.5	CARBONATIZED MAFIC TUFFS: PY 3-5%
	3.6 3.9	ANKERITE-SERICITE PHYLLITE
	7.9 10.9	CHLORITE-DOLOMITE PHYLLITE
	10.9 13.3	ANKERITE PHYLLITE
	13.3 15.9	CHLORITE-DOLOMITE PHYLLITE
	15.9 17.3	ANKERITIC PHYLLITE
	20.2 21.0	PERVASIVE QZ-CB ALTERED MAFIC VOLCANIC
24.5	27.7	FAULT
27.7	37.3	MAFIC CRYSYAL ASH TUFF: PY TR
	30.0 30.3	QZ-DOL VEIN: PY 15%
37.3	62.9	CARBONATIZED MAFIC VOLCANIC: PY 5%
62.9	64.1	SERICITIC TUFF: PY 5-8%
	70.5 71.1	BLACK ARGILLITE: PY 5%
64.1	67.2	BLACK ARGILLITE/CHERT BRECCIA
67.2	75.3	SERICITE-DOLOMITE PHYLLITE: PY 5-10%
75.3	97.8	SERICITIC TUFF WITH INTERBEDDED CHERT: PY 15-20%
	79.7 81.0	ARGILLITE
	81.4 81.7	FAULT
	86.4 89.0	CHERT/SERICITIC TUFF: PY 15%
	89.0 97.8	BANDED SERICITIC TUFF, CHERT AND PHYLLITE
97.8	101.2	INTERBEDDED SERICITIC TUFF AND GREY CHERT: PY 8%,
	97.8 99.3	MASSIVE GREY CHERT: PY 5-10%, CP 1%, TT 1-3%, GL TR-3%, AS 20%
	99.3 99.6	TUFFACEOUS CHERT: PY 1%
101.2	106.4	VOLCANICLASTIC BRECCIA: PY 5%
	100.2 101.5	PYRITIC FELDSPAR CRYSTAL TUFF: PY 5%
106.4	108.7	SERICITIC TUFF
	107.5 107.5	FAULT
	107.8 108.1	FAULT
	108.3 108.5	FAULT
108.7	114.7	VOLCANICLASTIC BRECCIA/PYRITIC SILTITE: PY 20%
	112.8 113.0	FAULT
	114.4 114.6	FAULT
	114.8 114.9	PYRITIC SILTITE (MUDDY TUFF)
114.7	133.1	BLACK GRAPHITIC ARGILLITE
	127.6 127.8	QZ-DOL VEIN: PY TR, SL 3%
	128.1 129.2	FAULT
133.1	136.2	CHERT PEBBLE CONGLOMERATE
136.2	136.2	END OF HOLE

PURPOSE: Test for shallow northwesterly plunge to Twin Lens.

RESULTS: Well developed chert at target horizon. 1.5m section of galena, sphalerite, chalcopyrite, arsenopyrite and

tetrahedrite associated with dolomite veins in the chert  
(97.8-99.3m).

DRILLHOLE: Twin 15  
 COORDINATES: 78+30E, 4+73S AZIMUTH: 225<sup>o</sup> DIP: -90<sup>o</sup>  
 DEPTH: 174.3M HORIZONTAL PROJ: VERT PROJ:  
 START: Aug 9 FINISH: Aug 12, 1987.

FROM	TO	ROCK
0.0	3.7	OVERBURDEN
3.7	39.6	MAFIC LAPILLI TUFF
	30.6 31.3	FAULT
39.6	41.5	MAFIC FELDSPAR CRYSTAL TUFF: PY 1%
41.5	81.3	LAPILLI BEARING MAFIC ASH TUFF: PY 1-3%
	42.0 42.1:	CP TR,
	52.7 52.7	1CM PYRITE VEIN: GL TR
	53.1 53.4	QZ-DOL VEINS: GL 1%
	54.4 54.8	FAULT
	56.2 57.2	QZ-CB FLOODING: PY 1-3%
	81.1 81.22	QZ-DOL VEIN
81.4	104.1	SERICITIC CHERT BRECCIA WITH INTERBEDDED ARGILLITE (REA ZONE-BASE): PY 8%.
	81.8 81.9	FAULT
	83.2 83.3	FAULT
	86.0 87.0	FAULT WITH GRAPHITIC PARTINGS
	103.7 104.1	FAULT
104.1	114.9	SERICITIC TUFF: PY 3%
114.9	117.8	RIBBON BANDED BLACK CHERT: PY 5%
117.8	133.7	INTERBEDDED SERICITIC TUFF AND BLACK CHERT: PY 5%
	123.4 123.45	PYRITE BAND: PY 70%
	129.8 130.1	FAULT
133.7	143.0	MASSIVE GREY CHERT: PY 8%, GL 1-3%,
	139.6 139.7	SEMI-MASSIVE SULPHIDE BAND: PY 30%, SL, 10%, GL 1%
143.0	150.7	TUFFACEOUS CHERT: PY 10%, GL TR.
	147.7 148.3	BLACK CHERT
	148.3 149.0	PYRITIC TUFF: PY 15%
150.7	153.3	BLACK CHERT BRECCIA: PY 15%, SL 8%, GL 1-3%
	153.1 153.3	FAULT
153.3	165.6	TUFFACEOUS GREY CHERT/CHERT BRECCIA: PY 3-5%
	155.2 156.0	FAULT
	160.6 164.6	30% CORE RECOVERY
105.6	173.4	PYRITIC SILTITE (MUDDY TUFF): PY 25-30%
	156.6 166.0	FAULT
	166.4 166.7	QZ VEIN
	173.3 173.4	FAULT
173.4	174.3	LAMINATED BLACK ARGILLITE
174.3	174.3	END OF HOLE

PURPOSE: Test for down dip continuity of mineralization  
 present in Twin 14.

RESULTS: Well developed grey chert unit with disseminated  
 galena, sphalerite, and trace chalcopyrite intersected at target  
 horizon (133.7-143.0m).

DRILLHOLE: Twin 16

COORDINATES: 79+50E, 4+50S AZIMUTH: 225° DIP: -60°

DEPTH: 142.0M HORIZONTAL PROJ: VERT PROJ:

START: Aug 13 FINISH: Aug 15, 1987.

<u>FROM</u>	<u>TO</u>	<u>ROCK</u>
0.0	3.7	OVERBURDEN
3.7	8.8	CARBONATIZED MAFIC LAPILLI TUFFS
	10.3 11.0	LOST CORE
8.8	12.7	MAFIC FLOW
12.7	19.6	CARBONATIZED MAFIC LAPILLI TUFFS
19.6	24.8	MINERALIZED FAULT/VEIN: PY 20%, SL 3%, GL 1-3%, CP TR, TT TR.
24.8	32.5	BLEACHED MAFIC VOLCANICS: PY 20%
	26.7 26.75	QZ VEIN
32.5	36.9	CARBONATIZED MAFIC LAPILLI TUFF
36.9	46.4	CARBONATIZED MAFIC FLOW
46.4	47.0	CARBONATE FLOODED MAFIC VOLCANIC
47.0	57.0	QUARTZ FELDSPAR PORPHYRY FLOW OR SILL
57.0	68.1	INTERBEDDED FELDSPAR CRYSTAL TUFF AND ASH TUFF: PY 1-3%
68.1	68.9	QZ VEIN: PY 5-10%, GL 3%, CP 1%.
68.9	90.3	INTERMEDIATE CRYSTAL TUFF: PY 3-5%
	75.1 75.6	QZ VEIN BRECCIA: PY 1%
	78.0 78.3	QZ VEIN
90.3	95.1	BLACK CHERT BRECCIA: PY 10%
	91.0 91.9	CHLORITIC PHYLLITE
	93.3 93.4	FAULT
95.1	110.0	INTERBEDDED SERICITIC TUFF AND CHERT: PY 3%
	96.7 97.3	CHERT BRECCIA
	107.8 108.4	QZ VEIN
110.0	114.6	SILICIFIED GREY CHERT BRECCIA: PY 3%
	112.5 112.8	INTERSTITIAL SULPHIDE MINERALIZATION: PY 10%, SL 8%, GL 3%, TT <1%, CP 1%.
	111.6 113.1	20CM LOST CORE
	113.1 114.6	LOST CORE DUE TO MISLATCH
114.6	116.5	SERICITIC TUFFACEOUS CHERT: PY 5%
	116.2 116.3	FAULT
116.5	122.9	INTERBEDDED PYRITIC SILTITE (MUDDY TUFF) AND WACKE: PY <1%
122.9	128.3	POLYMICITIC VOLCANICLASTIC BRECCIA
128.3	131.4	FAULT
131.4	142.0	CHERT PEBBLE CONGLOMERATE
142.0	142.0	END OF HOLE

PURPOSE: 100m step-out down plunge from Twin 14 & 15 intersections, to test quality of the mineralized horizon.

RESULTS: Ribbon banded grey chert intersected at target horizon. Strong disseminated mineralization from 110.0-114.6m. Mismatch caused 1.3m of core to be lost from 113.1-114.6m. Pebbles of massive sulphide recovered indicating a potentially good zone.

DRILLHOLE: Twin 17

COORDINATES: 78+75E, 4+25S AZIMUTH: 225° DIP: -60°

DEPTH: 163.4m HORIZONTAL PROJ: VERT PROJ:

START: Aug 15 FINISH: Aug 17, 1987.

<u>FROM</u>	<u>TO</u>	<u>ROCK</u>
0.0	4.4	OVERBURDEN
4.4	8.1	MAFIC CRYSTAL ASH TUFF
	5.5 5.8	QZ EYE BEARING LAPILLI
8.1	16.5	MAFIC LAPILLI ASH TUFF
	10.4 10.7	QZ-DOL VEINS
	13.8 14.9	FAULT
	15.6 16.2	FAULT
16.5	39.8	MAFIC TUFF
	26.0 26.5	CARBONATIZED MAFIC TUFF: <1% PY
	39.1 39.3	BLEACHED MAFIC TUFF: PY 1%
39.8	48.6	CARBONATIZED MAFIC VOLCANICS: PY 1-5%
48.6	49.1	FAULT BRECCIA
49.1	55.9	CARBONATIZED MAFIC VOLCANIC: PY 5%
	49.1 51.5	CARBONATIZED MAFIC LAPILLI TUFF: PY 5%
	51.5 54.1	PERVASIVELY CARBONATIZED AND SERICITIZED MAFIC: PY 5%
55.9	67.7	INTERMEDIATE VOLCANICLASTIC: PY 1%
	63.5 63.7	QZ-DOL: PY TR
	64.5 64.6	QZ-DOL VEIN
67.7	94.3	INTERMEDIATE CRYSTAL LAPILLI TUFF: PY 1-3%
	69.7 70.4	CHLORITIZED AND CARBONATE VEINED TUFF: PY 8%, SL TR
	80.4 80.9	QZ-DOL VEIN: PY 8%, GL 3%, SL 3%
94.3	106.4	INTERMEDIATE LAPILLI CRYSTAL TUFF: PY TR-3%
	101.6 102.8	FAULT
	102.8 106.4	: PY 5-8%
106.4	109.3	GRAPHITIC FAULT BRECCIA: PY 1-3%
	106.4 108.4	FAULT
	109.1 109.3	QZ VEIN: PY TR
109.3	111.8	PYRITIC CHERTY TUFF: PY 10-15%
111.8	136.0	SERICITIC TUFF: PY 5-10%,
	117.6 118.2	INTERBEDDED CHERT AND ARGILLITE: PY 5%
	118.2 118.5	ANKERITIC SERICITE PHYLLITE: PY 1-3%
	118.7 119.5	GREY/BLACK CHERT: PY 1-3%
	121.2 122.1	GREY CHERT/SERICITIC TUFF
	122.7 124.8	BLACK CHERT/GREY CHERT
	128.5 129.3	DEPOSITIONAL CHERT BRECCIA: PY 15-20%
	129.3 129.4	QZ VEIN
	129.9 130.0	FAULT
	132.7 132.8	FAULT
136.0	150.1	MASSIVE GREY CHERT: PY 5-15%
	136.0 136.5	FAULT
	139.4 139.9	SERICITIC TUFF: PY 15%
	141.9 142.3	DEPOSITIONAL CHERT BRECCIA: SL 1-3%, GL TR
	141.0 141.1	CHERT BRECCIA: GL 5%, SL 3-5%
	145.0 145.3	PYRITIC CHERT BRECCIA: PY 30%,

148.3 148.9 SILICIFIED CHERT BRECCIA: SL 5%, PY  
 5-10%  
 150.1 153.3 SERICITIC FELSIC LAPILLI TUFF: PY 30-40%  
 153.3 154.9 INTENSLY CHLORITIC HETEROLITHIC FRAGMENTAL: PY  
 20%, SL TR  
 154.9 157.6 INTERBEDDED LAPILLI TUFFS AND LAMINATED PYRITIC  
 ASH TUFFS: PY 5-10%,  
 155.4 155.6 LAMINATED PYRITIC ASH TUFFS: PY 20%  
 156.0 156.2 FAULT  
 156.3 157.6 FAULT  
 157.6 158.3 FAULT/GOUGE ZONE  
 158.5 163.4 BLACK ARGILLITE AND SILTITES  
 163.4 163.4 END OF HOLE

PURPOSE: Fill in hole between Twin 16 and Twin 14/15 testing  
 northwesterly plunge of the Twin Zone.

RESULTS: Good development of massive grey chert on target  
 horizon. Small amounts of galena and sphalerite present between  
 136.0 and 150.1

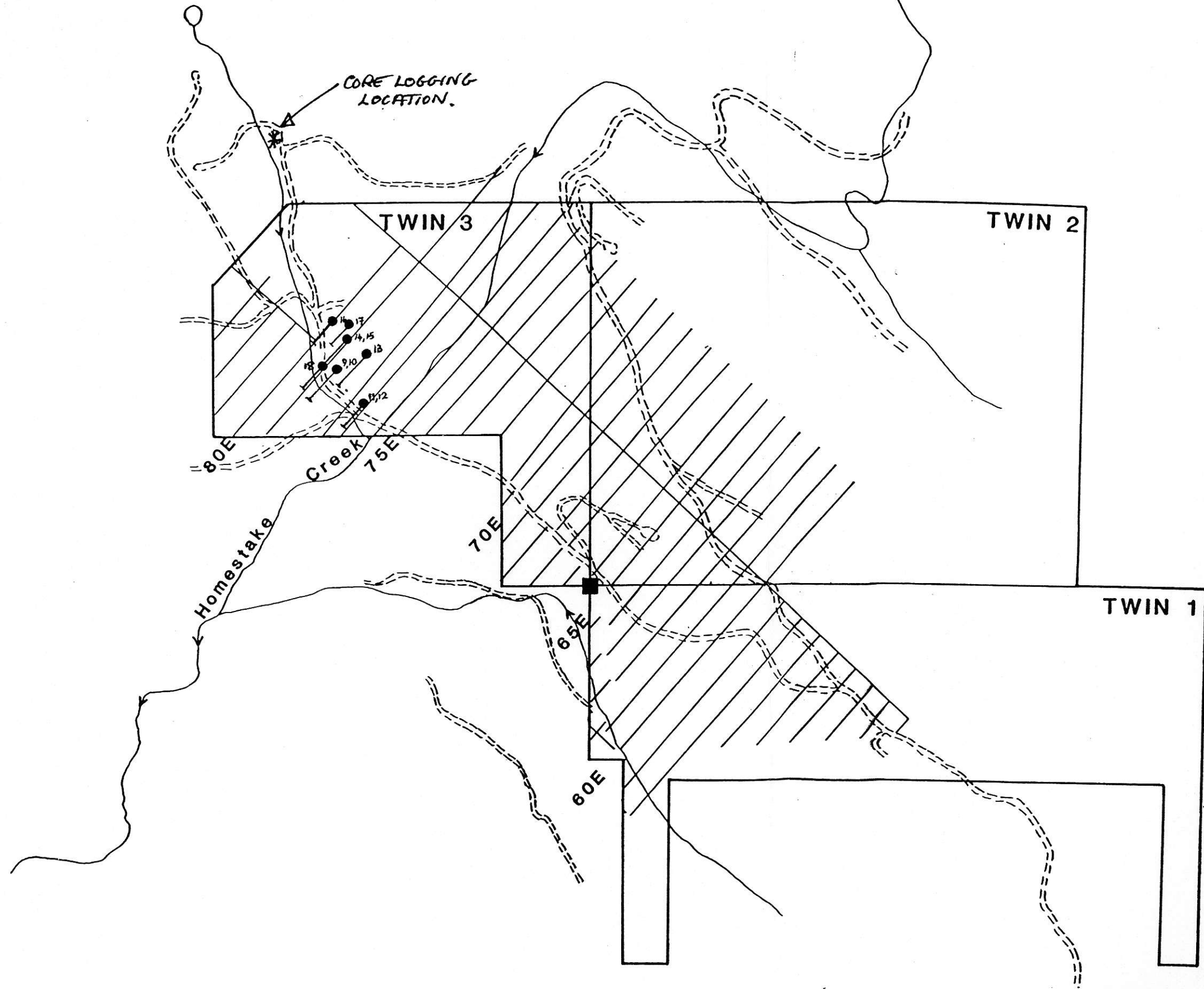
DRILLHOLE: Twin 18  
 COORDINATES: 78+30E, 5+36S AZIMUTH: 225° DIP: -60°  
 DEPTH: 64.0m HORIZONTAL PROJ: VERT PROJ:  
 START: Aug 17 FINISH: Aug 18, 1987.

FROM	TO	ROCK
0.0	6.1	OVERBURDEN
6.1	6.3	CARBONATIZED MAFIC CRYSTAL TUFF
6.3	9.8	GREY/BLACK CHERT: PY 1%
	6.3	9.8 LOST CORE
9.8	16.7	SERICITIC TUFF WITH INTERBEDDED CHERTS: PY 3%
	9.8	16.7 4.8m LOST CORE
16.7	24.6	LAMINATED GREY AND BLACK ARGILLITE: PY 1-3%
	16.7	17.8 LOST CORE
24.6	27.8	SERICITIC PYRITIC TUFF: PY 15%
	26.8	26.9 FAULT
	26.8	27.4 LOST CORE
	27.4	27.6 GREY CHERT
27.8	31.9	QUARTZ VEIN/FAULT: PY 5%
	27.8	31.9 2m LOST CORE
31.9	39.6	INTERBEDDED SERICITIC TUFF, CHERT AND ARGILLITE: PY 5%
	32.0	33.2 30 cm LOST CORE
	33.2	33.3 QUARTZ VEIN
	38.1	39.6 LOST CORE
39.6	40.9	PYRITIC SILTITE: PY 30%
40.9	46.1	PYRITIC FELSIC LAPILLI TUFF: PY 35%
	41.5	46.0 80 CM LOST CORE
46.1	50.4	MIXED FELSIC TUFF AND WACKE: PY 30%
	46.1	47.2 LOST CORE
50.4	58.9	INTERBEDDED ARGILLITE AND WACKE: PY 1-3%
	53.1	53.5 FAULT
	54.3	55.2 QUARTZ-DOLOMITE VEIN
	58.2	58.4 CHERT PEBBLE CONGLOMERATE
58.9	64.0	CHERT PEBBLE CONGLOMERATE
	59.8	60.4 ARGILLITE/WACKE UNIT
64.0	64.0	END OF HOLE

PURPOSE: Shallow hole to test continuity of the Twin Zone at a shallow depth.

RESULTS: Very poor recovery due to proximity to the surface. Massive sulphide horizon was not intersected. No significant mineralization was found.





ESSO MINERALS CANADA  
TWIN PROPERTY  
DRILLHOLE LOCATIONS  
AUGUST, 1987

0 500m

To accompany a report by

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

REVISIONS

By	Date	Approv. By

To accompany MONTHLY REPORT BY: TDW AUG 1987