

DIAMOND DRILLING



42A11NE0557 36 WARK

010

TOWNSHIP: Wark

REPORT No.: 36

WORK PERFORMED BY: Placer Development Ltd.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 568451	W3-82-1 b	201.5m	Mar/82	(1)
P 595996	W3-82-2 c	128.9m	Mar/82	(1)
P 568452	W4-82-1 d	191.4m	Mar/82	(1)
P 568454	W4-82-2 e	139.3m	Mar/82	(1)
P 568455	W4-82-3 f	169.8m	Mar/82	(1)
P 597306	W5-82-1 g	200.2m	Mar/82	(1)
P 597324	W6-82-1 h	142.3m	Mar/82	(1)
P 597325	W6-82-2 i	167.6m	Mar/82	(1)
P 595988	W7-82-1 j	187.1m	Mar/82	(1)

NOTES: (1) #472-476, 1982

#472 - 476-82

ASSESSMENT REPORT ON
DIAMOND DRILLING
WARK TOWNSHIP, ONTARIO
V.184
BY
PLACER DEVELOPMENT LIMITED

Toronto, Ontario
December, 1982

INTRODUCTION

From March 25th until May 15th, 1982 Placer Development Limited drilled 9 holes for a total of 1528.1 metres. The holes were drilled on five different groups of 4 claims each.

LOCATION AND ACCESS

The property consists of five parcels of 4 claims each (Claim Blocks III to VII inclusive) for a total of 20 claims in Wark Township. The claims lie in Lots 4-8, Concessions IV and V approximately 15 miles north of Timmins, Ontario. (Figure 1).

Access is via highway from Timmins to Feldman Lake, then all-weather road north along the hydro line for approximately 3 miles. Old bush roads then branch off and pass through each claim group.

WORK DONE

During January and February 1982 lines were cut on all groups and ground geophysics carried out. A proton magnetometer and an Apex MaxMin II E.M. using 2 frequencies were used in the geophysical surveys. (J.B. Boniwell, July 1982).

DRILLING PROGRAM

A nine hole drill program was carried out to test some of the E.M. conductive zones located during the surveys.

contd. ...

Claim Block III. Dwg.No.184-43

Hole W3-82-001. Claim No.P.568451. This hole was collared at 4+80E on line 9+00N and drilled to a depth of 201.5 metres. A zone of graphite and sulphides was intersected.

Hole W3-82-002. Claim No.P.595996. This hole was collared at 3+00E on line 12+00N and drilled to a depth of 128.9 metres. Sections of graphite and massive sulphides were intersected.

Claim Block IV. Dwg.No.184-44

Hole W4-82-001. Claim P.568452. This hole was collared at 3+80N on line 7+00E and drilled to a depth of 191.4 metres. Conductor due to pyritic and graphitic argillite over 26.8 metres.

Hole W4-82-002. Claim No.P.568454. This hole was collared at 1+20S on line 5+00E and drilled to a depth of 139.3 metres. MaxMin conductor due to graphitic and pyritic section from 103.8 to 110.2 metres.

Hole W4-82-003. Claim No.P.568455. This hole was collared at 0+75N on line 4+00E and drilled to a depth of 169.8 metres. Graphite and pyrrhotite was intersected from 157.8 to 160.3 metres.

Claim Block V, Dwg.No.184-45

Hole W5-82-001. Claim No.P.597306. This hole was collared at 2+60W on line 7+00N and drilled to a depth of 200.2 metres. Graphite and sulphide mineralization from 109.5 to 170.5 metres are probable cause of conductor.

contd. ...

Claim Block VI, Dwg.No.184-46

Hole W6-82-001. Claim No.P.597324. This hole was collared at 1+00W on line 5+00N and drilled to a depth of 142.3 metres. Graphite and sulphides intersected in hole.

Hole W6-82-002. Claim No.P.597325. This hole was collared at 2+25E on line 5+00N and drilled to a depth of 167.6 metres. Graphite and sulphides are probable cause of E.M. conductor.

Claim Block VII, Dwg.No.184-47

Hole W7-82-001. Claim No.P.595988. This hole was collared at 6+25E on line 6+00N and drilled to a depth of 187.1 metres. Graphitic intersection from 149.0 to 187.0 metres.

SUMMARY

Although no commercial values were encountered all conductors drilled to date have been explained by intersecting either graphite and/or sulphide mineralization in the drill hole. A total of 190 samples from nine drill holes were sent for assay. No significant gold values were encountered with the highest assay being 230 ppb Au in W5-82-001.

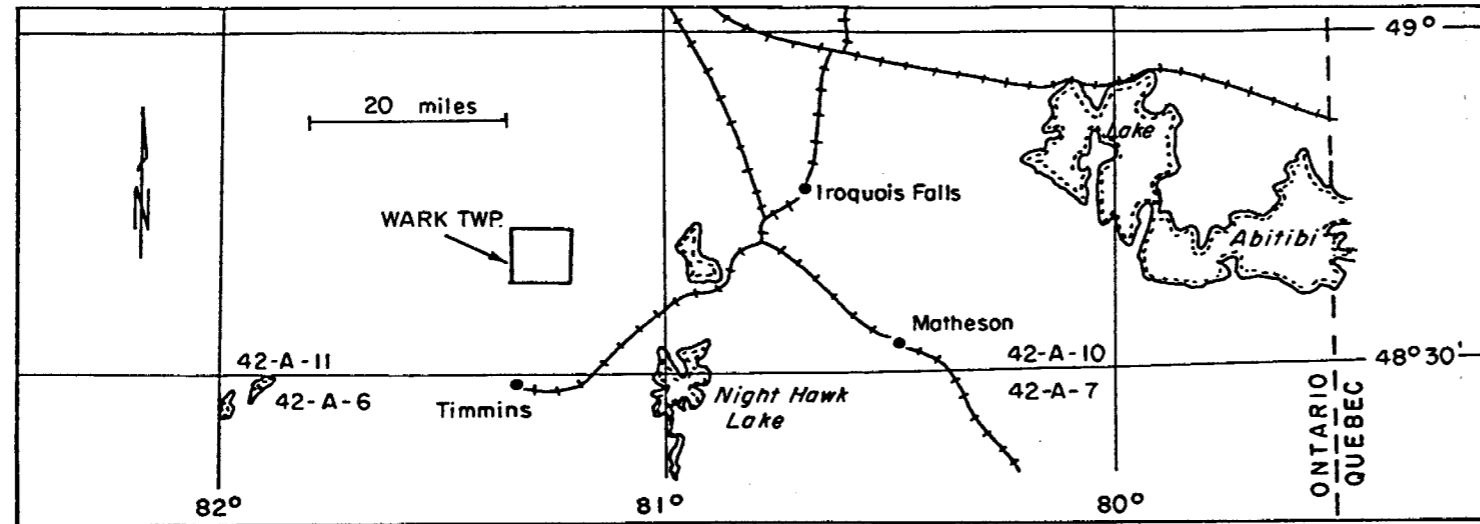
Respectfully Submitted

FHF/of



F.H. Faulkner

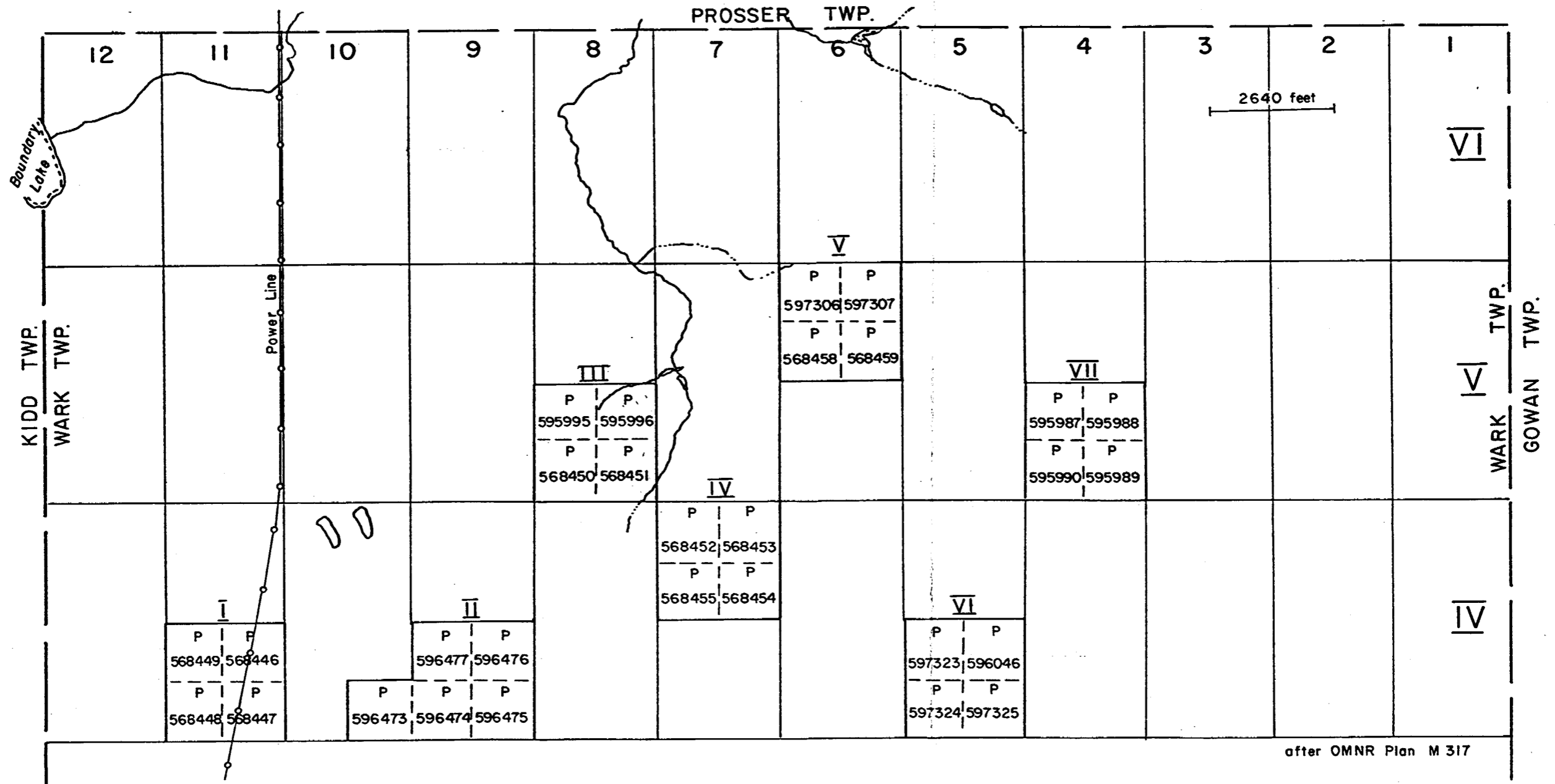
Figure 1.



PLACER DEVELOPMENT LIMITED
LOCALITY & CLAIMS MAP
WARK TWP., ONTARIO

NTS 42-A-11
June, 1982

V 184 (II)



after OMNR Plan M 317

Placer Development Limited
V.184(II) Claim Block III
Wark Twp., Ontario

HOLE W382001
CLAIM NO. P 568451
BB GRID NORTH 900.00 GRID EAST +480.00
AZIMUTH OF HOLE 315.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 201.50mt.
Logged by: J. R. COTE on (day/mo/yr)...07APR82

FROM 0.00mt. TO 31.70mt.
OVERBURDEN CLAY

FROM 31.70mt. TO 35.00mt.
OVERBURDEN BOULDERS

NOTE: FOR FRAGMENTAL ROCKS (IE. PYROCLASTICS OR BRECCIAS) / TIER GRAIN
SIZE DATA REFERS TO THE TEXTURE OF CLAST FORMING MATERIAL, NOT TO
THE FRAGMENTS COLLECTIVELY.

FROM 35.00mt. TO 60.60mt.
medium green ANDESITE with 2.5% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE, BRECCIATED
Structures noted: FOLIATION dip 75, FRACTURE SET dip 30
1% QUARTZ as aagdaloids, minor microveins, &/or scattered xtals
.1% PYRITE as disseminations and scattered crystals
2.5% CHLORITE as laminations, bedded
2.5% CALCITE as macroveins, and veins
2.5% LEUCOXENE as perv./dis. vns, micro vns, selv., brecc., stock.,
sheet.
.1% PYRRHOTITE as disseminations and scattered crystals
25.60 recovered core in this interval
WEAKLY BRECCIATED ANDS IN GRAPHIC MATRIX.
FOLIATION VERY STEEP, FRACTURE FILLING CA DIPPING
APPROX 30.
LU > 1% FROM 49.6 TO 59.5.
LOWER CONTACT GRADATIONAL FROM 59.5 TO 60.6.

FROM 60.60mt. TO 77.10mt.
med. light green ANDESITE
Textures noted: EQUIGRANULAR, MASSIVE, BRECCIATED
Structures noted: FOLIATION dip 70,
5% QUARTZ as macroveins, and veins
.01% CHALCOPYRITE as disseminations and scattered crystals
1% CHLORITE as veins
2.5% CALCITE as veins
1% GRAPHITE as breccia fillings
.1% PYRRHOTITE as microveins
.01% PLAGIOCLASE as veins
16.50 recovered core in this interval
ROUND QUARTZ EYES (PORPHYROBLASTS ?) AND LENSES FROM
1 TO 2 MM PRESENT, OFTEN WITH PR.
GR DISSEMINATED IN QZ MATRIX, AND MATRIX IS APPROX

Hole W382001

GR DISSEMINATED IN QZ MATRIX, AND MATRIX IS APPROX
8% OF THE ROCK.

FROM 77.10mt. TO 88.20mt.

med. light green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE , BRECCIATED
10% QUARTZ as macroveins, and veins
2.5% CHLORITE as breccia fillings
5% CALCITE as macroveins, and veins
1% GRAPHITE as breccia fillings
.03% PYRRHOTITE as microveins

11.10 recovered core in this interval
SIGNIFICANT INCREASE IN QZ-CA VEINING.
PINKISH QZ AT 82.6.

FROM 88.20mt. TO 104.20mt.

med. light green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE , BRECCIATED
Structures noted: FOLIATION dip 80,
2.5% QUARTZ as macroveins, and veins
.03% PYRITE as microveins
1% CHLORITE as breccia fillings
2.5% CALCITE as macroveins, and veins
.3% GRAPHITE as breccia fillings
.03% PYRRHOTITE as microveins

16.00 recovered core in this interval
SIMILAR TO 60.6 TO 77.1 METERS.
PINKISH QZ AT 94.1.

FROM 104.20mt. TO 138.80mt.

medium green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE
2.5% QUARTZ as macroveins, and veins
1% CHLORITE as macroveins, and veins
2.5% CALCITE as macroveins, and veins
2.5% LEUCOXENE as disseminations and scattered crystals

34.60 recovered core in this interval
REAPPEARANCE OF LU.

FROM 138.80mt. TO 155.60mt.

light green ANDESITE with 5%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE , BRECCIATED
Structures noted: CLEAVAGE dip 65,
.3% QUARTZ as veins
.3% PYRITE as breccia fillings
.01% CHALCOPYRITE as breccia fillings
1% CHLORITE as breccia fillings
.1% CALCITE as veins
2.5% PYRRHOTITE as breccia fillings

16.80 recovered core in this interval

Hole W382001

PROBABLE CONDUCTIVE ZONE, 0.5 TO 5.0 CM ANDS BRECCIA
FRAGMENTS IN SULFIDE-GRAPHITE MATRIX.

FROM 155.60mt. TO 160.00mt.

extremely dark black ARGILLITE with 10% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE
Structures noted: CLEAVAGE dip 60, CONTACT
1% QUARTZ as veins
1% PYRITE as veins
.3% CALCITE as veins
.3% PYRRHOTITE as veins

4.40 recovered core in this interval
MINOR ANDS FRAGMENTS, POSSIBLY PYROCLASTIC

FROM 157.40mt. TO 157.70mt. 100% of this subinterval is
light green ANDESITE

Textures noted: EQUIGRANULAR, MASSIVE
1% PYRRHOTITE as disseminations and scattered crystals

FROM 160.00mt. TO 162.70mt.

light green ANDESITE with 5% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE
Structures noted: FOLIATION dip 80,
.1% PYRITE as veins

2.70 recovered core in this interval
ANDS IS AGGLOMERATIC, MATRIX IS GRAPHITIC ARGL.
CONTACTS GRADATIONAL ABOVE AND BELOW.

FROM 162.70mt. TO 201.50mt.

medium green ANDESITE
Textures noted: EQUIGRANULAR, MASSIVE, BRECCIATED
1% QUARTZ as veins
.3% CALCITE as veins
.03% PYRRHOTITE as disseminations and scattered crystals

38.80 recovered core in this interval
POSSIBLY A FLOW BRECCIA, MATRIX AND FRAGMENTS APPEAR
TO HAVE APPROX. SAME COLOUR AND TEXTURE.

IN-HOLE SURVEY AT 61.00 mt.

GRID AZIMUTH OF HOLE 315.00 VERTICAL ANGLE -55.00

IN-HOLE SURVEY AT 121.90 mt.

GRID AZIMUTH OF HOLE 315.00 VERTICAL ANGLE -48.00

IN-HOLE SURVEY AT 183.90 mt.

GRID AZIMUTH OF HOLE 315.00 VERTICAL ANGLE -44.00

IN-HOLE SURVEY AT 201.50 mt.

GRID AZIMUTH OF HOLE 315.00 VERTICAL ANGLE -44.00

RSUM

RSUM MAX-MIN CONDUCTOR DUE TO A SHARPLY DEFINED ZONE OF GRAPHITE AND

Hole W382001

RSUM SULFIDE MINERALIZATION FROM 138.8 TO 160.0 METERS.
 RSUM
 A001

AUMM SAMPLE PPBAU PPNAG PPHAS PPMCU PPMZN
 ALAB ND. SWAST SWAST SWAST SWAST SWAST
 ATYP H-COR H-COR H-COR H-COR H-COR
 AMTH FA/AA FA/AA FA/AA FA/AA FA/AA
 RASY SWAST=SWASTIKA LABORATORIES, H-COR=HALF CORE
 RASY FA/AA=FIRE ASSAY/ATOMIC ABSORPTION

A001	6900	7000	1796	0	0.0	13	58	102
A001	7000	7100	1797	0	0.0	5	65	105
A001	7710	7810	1798	0	0.0	8	55	128
A001	8180	8280	1799	0	0.0	6	16	108
A001	8280	8380	1800	0	0.0	4	60	120
A001	9360	9460	2326	20	0.0	5	91	148
A001	9800	9900	2327	0	0.0	9	68	123
A001	10620	10720	2328	0	0.0	10	67	124
A001	10920	11020	2329	5	0.0	3	130	169
A001	13780	13880	2330	0	0.0	4	73	100
A001	13880	13980	2331	0	0.2	4	80	116
A001	13980	14080	2332	0	0.0	5	64	107
A001	14080	14180	2333	0	0.0	6	49	110
A001	14180	14280	2334	10	0.0	5	61	137
A001	14280	14380	2335	0	0.0	3	59	111
A001	14380	14480	2336	0	0.0	6	59	145
A001	14480	14580	2337	0	0.0	6	73	131
A001	14580	14680	2338	5	0.0	7	60	122
A001	14680	14780	2339	0	0.0	5	110	109
A001	14780	14880	2340	0	0.0	12	52	130
A001	14880	14980	2341	0	0.0	8	61	229
A001	14980	15080	2342	0	0.2	4	172	270
A001	15080	15180	2343	0	0.0	5	60	235
A001	15180	15280	2344	0	0.0	1	58	271
A001	15280	15380	2345	0	0.0	20	86	165
A001	15380	15480	2346	0	0.2	21	70	146
A001	15480	15580	2347	0	0.2	12	63	175
A001	15580	15680	2348	20	0.2	35	100	289
A001	15680	15780	2349	0	0.2	17	76	420
A001	15780	15880	2350	70	0.2	7	84	494
A001	15880	15980	2351	5	0.2	42	97	411
A001	15980	16080	2352	5	0.3	12	104	589

RASY
 RASY
 RASY
 RASY 7145 7245
 RASY 18310 18320

ADDITIONAL SAMPLING
 PET=PETROGRAPHIC, HRA=WHOLE ROCK ANALYSIS

GEOLOGIST.....*J.P. Robinson*

/END

Placer Development Limited
V.184(II) Claim Block III
Wark Twp., Ontario

HOLE W382002
CLAIM NO. P 595995
80 GRID NORTH 1200.00 GRID EAST 300.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 128.90mt.
Logged by: D. D. DAVIDSON on (day/mo/yr)... MAY82

FROM 0.00mt. TO 20.50mt.
OVERBURDEN

FROM 20.50mt. TO 95.80mt.
med. light green ANDESITE
Textures noted: MASSIVE, PILLOWED
Structures noted: VEIN dip 10, FRACTURE SET dip 25
5% QUARTZ as microveins
.1% PYRITE as disseminations and scattered crystals
2.5% EPIDOTE as microveins
10% CHLORITE as pervasive mineralization
5% CALCITE as microveins
.1% PYRRHOTITE as disseminations and scattered crystals
75.00 recovered core in this interval
SECTION REPRESENTS SEVERAL POSSIBLE FLOWS.

FROM 88.50mt. TO 95.80mt. 5% of this subinterval is
very dark grey CHERT with 5% GRAPHITE 5% CHLORITE
Structures noted: CONTACT dip 45,
.1% PYRITE as disseminations and scattered crystals
THESE IRREGULAR BANDS MAY BE INTERFLOW SEDIMENTS OR
RIPPED UP FROM UNDERLAYING SEDS DURING EXTRUSION.

FROM 73.00mt. TO 73.90mt. 100% of this subinterval is
extremely dark green DIORITE
Textures noted: MASSIVE
Structures noted: CONTACT dip T10, CONTACT dip B15
5% Biotite as disseminations and scattered crystals
5% CALCITE as veins
CHILLED CONTACTS. TWO COMPOSITE > OF QZ+CA+KfP

FROM 77.10mt. TO 77.60mt. 100% of this subinterval is
extremely dark green DIORITE
Textures noted: MASSIVE
Structures noted: CONTACT dip T10, CONTACT dip B00
5% Biotite as disseminations and scattered crystals
2.5% CARBONATE as microveins
NUMEROUS < FILLED WITH CA.

FROM 95.80mt. TO 96.10mt.
light grey TALC SCHIST with 1% GRAPHITE 20% TALC
Textures noted: SCHISTOSE
Structures noted: SCHISTOSITY dip 40, CONTACT dip T40
2.5% PYRITE as disseminations and scattered crystals

Hole W382002

2.5% PYRITE as disseminations and scattered crystals
0.30 recovered core in this interval
ROCK APPEARS TO BE A MIXTURE OF TA AND SE,
CONSEQUENTLY HIGHLY SCHISTOSE.

FROM 96.10mt. TO 96.85mt.
extremely dark black ARGILLITE with 40% GRAPHITE
Structures noted: CONTACT dip T40, CONTACT dip B40
5% QUARTZ as microveins
5% PYRITE as laminations, bedded
.1% CALCITE as microveins
0.70 recovered core in this interval

FROM 96.85mt. TO 102.50mt.
medium grey TALC SCHIST with 30% TALC
Textures noted: SCHISTOSE
Structures noted: SCHISTOSITY dip 40,
.1% PYRITE as disseminations and scattered crystals
2.5% PYRRHOTITE as disseminations and scattered crystals
4.70 recovered core in this interval
FROM 99.5 TO 101.50 UNIT IS NOT SCHISTOSE.
GENESIS OF ROCK IS QUESTIONABLE.

FROM 102.50mt. TO 102.80mt.
extremely dark black ARGILLITE
Textures noted: BANDED, SOFT SEDIMENT SLUMPING
Structures noted: BANDING dip 40,
1% QUARTZ as microveins
2.5% PYRITE as laminations, bedded
.03% CHLORITE as microveins
0.30 recovered core in this interval

FROM 102.80mt. TO 103.70mt.
med. dark grey ARENITE with 2.5% GRAPHITE
Textures noted: BEDDED, SOFT SEDIMENT SLUMPING
Structures noted: BANDING dip 30,
2.5% QUARTZ as microveins
2.5% CARBONATE as microveins
2.5% PYRITE as disseminations and scattered crystals
2.5% CHLORITE as microveins
0.90 recovered core in this interval
MAY BE VOLCANOCLASTIC. PALE YELLOW MINERAL ASSOCIATED
WITH QZ MAY BE CARBONATE. QZ VEINING IS IRREGULAR.

FROM 103.70mt. TO 105.60mt.
very dark black ARGILLITE with 10% GRAPHITE
Textures noted: BEDDED, SOFT SEDIMENT SLUMPING, GRADED BEDDING
Structures noted: BEDDING dip U25,
1% QUARTZ as macroveins
.1% PYRITE as disseminations and scattered crystals
1% CALCITE as macroveins

Hole W382002

2.5% PYRRHOTITE as patches
1.90 recovered core in this interval
GRADED BEDDING INDICATES TOPS UP HOLE.

FROM 105.60mt. TO 106.60mt.
med. light tan MASSIVE SULFIDES with 70%PYRITE
Textures noted: BRECCIATED , SOFT SEDIMENT SLUMPING
Structures noted: CONTACT dip B25,
70% PYRITE as individual crystals
.1% SPHALERITE as disseminations and scattered crystals
1.00 recovered core in this interval
MASSIVE TO SEMI-MASSIVE PYRITE. CONTORTED NEAR
CONTACTS. PY IS PARTIALLY RECRYSTALLIZED.

FROM 106.60mt. TO 108.10mt.
light grey FELSIC VOLCANICLASTIC with 20%SERPENTINE 10%PYRRHOTITE
Textures noted: BRECCIATED
Structures noted: CONTACT dip B35,
2.5% QUARTZ as macroveins
1% CARBONATE as macroveins
5% PYRITE as stockworks
1% CHLORITE as microveins
10% PYRRHOTITE as stockworks
1.50 recovered core in this interval
INTENSE SILICIFICATION MAY HAVE PRODUCED THIS ROCK.

FROM 108.10mt. TO 114.40mt.
medium green ANDESITE
Textures noted: MASSIVE
Structures noted: VEIN dip 30,
1% QUARTZ as microveins
2.5% PYRITE as microveins
2.5% CHLORITE as microveins
2.5% PYRRHOTITE as microveins
6.30 recovered core in this interval
BLEACHED ZONES SILICIFIED, OFTEN ASSOCIATED
WITH SULFIDES.

FROM 114.40mt. TO 128.90mt.
medium green ANDESITE with 10%GRAPHITE
Textures noted: BRECCIATED
Structures noted: VEIN dip 30,
2.5% QUARTZ as microveins
2.5% CHLORITE as microveins
2.5% CALCITE as microveins
1% PYRRHOTITE as disseminations and scattered crystals
14.50 recovered core in this interval
ROCK APPEARS BRECCIATED DUE TO RETICULATED PATTERN
OF GRAPHITE + CHLORITE STOCKWORK.

EOH @ 128.90 METRES.

Hole W382002

IN-HOLE SURVEY AT 61.00 mt.
 GRID AZIMUTH OF HOLE 125.00 VERTICAL ANGLE -50.00

IN-HOLE SURVEY AT 128.90 mt.
 GRID AZIMUTH OF HOLE 125.00 VERTICAL ANGLE -45.00

A001
 AUMM
 ALAB
 ATYP
 AMTH
 RASY
 RASY

SAMPLE PPBAU PPMAG PPMAS PPMCU PPMZN
 ND. SWAST SWAST SWAST SWAST SWAST
 H-COR H-COR H-COR H-COR H-COR
 FA/AA FA/AA FA/AA FA/AA FAS/AA
 SWAST=SWASTIKA LABORATORIES, H-CORE=HALF CORE
 FA/AA=FIRE ASSAY/ATOMIC ABSORPTION

A001	9510	9610	3340	5	0.0	9	70	156
A001	9610	9685	3341	0	0.2	15	63	574
A001	9685	9785	3342	0	0.2	95	54	63
A001	9785	9985	3343	0	0.0	61	28	29
A001	9985	10085	3344	0	0.0	42	41	37
A001	10085	10185	3345	0	0.0	55	42	42
A001	10185	10250	3346	0	0.0	65	47	78
A001	10250	10370	3347	0	0.0	3	41	183
A001	10370	10560	3348	5	0.2	0	62	195
A001	10560	10660	3349	30	0.2	110	40	120
A001	10660	10810	3350	0	0.0	1	47	236
A001	10810	10910	3213	0	0.0	6	51	170
A001	10910	11010	3214	5	0.0	8	71	131
A001	11010	11110	3215	5	0.0	3	103	188

RASY
 RASY
 RASY 9600 9600
 RASY 10000 10000
 RASY 10620 10620
 RASY 10790 10790
 RASY 11020 11020

SAMPLE TAKEN FOR PETROGRAPHIC WORK

GEOLOGIST *J.P. [Signature]*

/END

Placer Development Limited
V.184(II) Claim Block IV
Wark Twp., Ontario

HOLE W482001
CLAIM NO. P 569452
80 GRID NORTH 380.00 GRID EAST 700.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 191.40mt.
Logged by: J. R. COTE on (day/mo/yr)...21APR82

FROM 0.00mt. TO 56.60mt.
OVERBURDEN

FROM 56.60mt. TO 63.50mt.
pale green FELSIC VOLCANICLASTIC with 2.5%CHLORITE
Textures noted: EQUIGRANULAR , MASSIVE
2.5% QUARTZ as veins
.1% PYRITE as pervasive mineralization
.1% PYRRHOTITE as pervasive mineralization

6.90 recovered core in this interval
FROM 56.6 TO 59.8 ROCK APPEARS VERY FRESH.
MED. GRAY TUFFACEOUS FLVC FROM 60.0 TO 60.6 WITH BLUE
QZ EYES.
POSSIBLY A CRYSTAL TUFF OF RHYOLITIC COMP.

FROM 63.50mt. TO 80.60mt.
med. light green FELSIC VOLCANICLASTIC with 2.5%CHLORITE
Textures noted: EQUIGRANULAR , MASSIVE , VUGGY
2.5% QUARTZ as veins
.1% PYRITE as pervasive mineralization
.1% PYRRHOTITE as pervasive mineralization

17.10 recovered core in this interval
VUGGY IN PLACES AND ORANGE LIMONITIC STAINING COMMON.
POSSIBLE XENOLITH AT 72.3.

FROM 66.90mt. TO 67.90mt. 100% of this subinterval is
dark grey ARGILLITE with .3%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: BEDDING dip 40,
SLIGHTLY GRAPHITIC ARGILLITE INTERBEDDED WITH GREENISH
GRAY CHERT. UPPER CONTACT IS GRADATIONAL, LOWER CONTACT
IS A FRACTURE SURFACE. SIMILAR ARGL FROM 77.6 TO 77.8.

FROM 80.60mt. TO 107.40mt.
extremely dark grey ARGILLITE with 10%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING ,
CONCRETIONARY
Structures noted: BEDDING dip 40,
.3% PYRITE as pervasive mineralization
.01% CALCITE as pervasive mineralization
.01% UNIDENTIFIED MINERAL as microveins

26.80 recovered core in this interval
CA ASSOCIATED WITH PY BLEBS. PY ALSO PRESENT AS
SCATTERED EUHEDRAL CRYSTALS, THIN LAMINATIONS, AND
CONCRETIONS.
MINERAL XX IS BRIGHT GREEN, ANHEDRAL, VERY SOFT COATINGS

Hole W482001

MINERAL XX IS BRIGHT GREEN, ANHEDRAL, VERY SOFT COATING
ON FRACTURE SURFACES.

FROM 80.60mt. TO 107.40mt. 30% of this subinterval is
medium green FELSIC VOLCANICLASTIC
Textures noted: EQUIGRANULAR , MASSIVE , INTERBEDDED
Structures noted: BEDDING dip 40,
FLVC PROBABLY OF PYROCLASTIC OR VOLCANIC ORIGIN.

FROM 81.80mt. TO 82.40mt. 100% of this subinterval is
light grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: CONTACT dip T35, CONTACT dip B35
5% QUARTZ as veins

FROM 88.90mt. TO 91.40mt. 100% of this subinterval is
light grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE , VUGGY
Structures noted: CONTACT dip T30, CONTACT dip B35
5% QUARTZ as veins
.01% PYRITE as disseminations and scattered crystals
.03% CHLORITE as veins

FROM 101.20mt. TO 101.85mt. 100% of this subinterval is
med. light grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: CONTACT dip T20, CONTACT dip B20
.03% PYRITE as disseminations and scattered crystals
CHERTY FOR 20 MM BELOW UPPER CONTACT.

FROM 104.80mt. TO 107.40mt. 80% of this subinterval is
medium grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: CONTACT dip B25,
.03% PYRITE as disseminations and scattered crystals
SLIGHT GREEN COLOUR, GRADES INTO NEXT UNIT DOWN HOLE.

FLVC IS ARKOSIC IN COMPOSITION AND POSSIBLY THE
RESULT OF A RE-WORKED FELSIC PYROCLASTIC OR VOLCANIC.

FROM 107.40mt. TO 129.10mt.
med. dark green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: BANDING dip 20, CONTACT dip B15
1% QUARTZ as veins
.1% PYRITE as pervasive mineralization
.03% CHLORITE as microveins
.1% CALCITE as veins
.1% PYRRHOTITE as pervasive mineralization

21.70 recovered core in this interval
COLOUR BANDING BETWEEN 36 AND 56. MINOR CROSS-CUTTING
TO SUB PARALLEL QZ-CA VEINING. POSSIBLY TUFFACEOUS.
LENSES OF GRAPHITIC ARGIL AT 117.9, 121.2, AND 124.3.

Hole W482001

FROM 129.10mt. TO 139.10mt.

medium grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: CONTACT dip B05,
.01% PYRITE as microveins

10.00 recovered core in this interval

ARKOSIC IN APPEARANCE AND COMP, POSSIBLY REWORKED TUFF.

FROM 131.10mt. TO 132.10mt. 100% of this subinterval is

med. dark green ANDESITE

Textures noted: EQUIGRANULAR , MASSIVE

Structures noted: CONTACT dip T00, CONTACT dip B15

FROM 139.10mt. TO 161.20mt.

med. dark green ANDESITE

Textures noted: EQUIGRANULAR , MASSIVE

1% QUARTZ as veins

.03% PYRITE as pervasive mineralization

.3% CALCITE as veins

.1% PYRRHOTITE as pervasive mineralization

22.10 recovered core in this interval

THIN (10 MM) GRAPHITIC LENSES, 0.1% OF SECTION.

BRECCIATED FROM 139.5 TO 139.9.

FROM 161.20mt. TO 163.50mt.

medium green ANDESITE with 2.5% GRAPHITE

Textures noted: EQUIGRANULAR , MASSIVE

2.30 recovered core in this interval

NOTE: / TIER GRAIN DATA REFERS TO ANDS CLASTS.

ANDS AGGLOMERATE CLASTS IN GRAPHITIC MATRIX.

BOTH UPPER AND LOWER CONTACTS ARE GRADATIONAL.

FROM 163.50mt. TO 173.10mt.

med. dark grey ARKOSE

Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING ,
INTERBEDDED

.03% PYRITE as disseminations and scattered crystals

9.60 recovered core in this interval

RE-WORKED FELSIC PYROCLASTIC OR VOLCANIC BUT MORE
SEDIMENTARY IN APPEARANCE THAN FLVC.

FROM 163.50mt. TO 173.10mt. 10% of this subinterval is

extremely dark grey ARGILLITE with 5% GRAPHITE

Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING
, INTERBEDDED

Structures noted: BEDDING dip 25,

GRAPHITIC ARGL ONLY FROM 165.8 TO 166.0, AND

FROM 116.15 TO 116.30.

Hole W482001

FROM 173.10mt. TO 191.40mt.

extremely dark grey ARGILLITE with SIGGRAPHITE

Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING ,
INTERBEDDED

5% QUARTZ as veins

18.30 recovered core in this interval

QZ VEIN FROM 173.1 TO 173.3.

FROM 173.10mt. TO 191.40mt. 40% of this subinterval is

med. dark grey ARKOSE

Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING
, INTERBEDDED

BOTH ARGL AND ARKS ARE INTIMATELY MIXED.

IN-HOLE SURVEY AT 61.00 mt.

GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -57.00

IN-HOLE SURVEY AT 122.00 mt.

GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -47.00

IN-HOLE SURVEY AT 191.40 mt.

GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -42.00

RSUM

RSUM MAX-MIN CONDUCTOR DUE TO PYRITIC AND GRAPHITIC ARGILLITE FROM 80.6

RSUM TO 107.4 METERS. MAGNETIC HIGH MAY BE DUE TO DISSEMINATED PYRRHOTITE

RSUM IN ANDESITE FROM 107.4 TO 129.1.

RSUM

A001

A001	AUMM	SAMPLE	PPBAU	PPNAG	PPMAS	PPMCU	PPMZN	
ALAB	ATYP	AMTH	RASY	RASY	NO. SWAST SWAST SWAST SWAST SWAST			
			H-COR H-COR H-COR H-COR H-COR					
			FA/AA FA/AA FA/AA FA/AA FA/AA					
			SWAST=SWASTIKA LABORATORIES LTD., H-COR=HALF CORE					
			FA/AA=FIRE ASSAY/ATOMIC ABSORPTION					
A001	9850 9950	2368	0	0.0	83	92	452	
A001	9950 10050	2369	0	0.0	118	109	598	
A001	10050 10150	2370	0	0.0	104	80	381	
A001	10450 10550	2371	0	0.0	16	37	103	
A001	10550 10650	2372	0	0.0	9	32	110	
A001	10650 10750	2373	0	0.0	31	44	258	
A001	17950 18050	2374	0	0.0	14	48	95	
RASY		ADDITIONAL SAMPLES						
RASY		PET=PETROGRAPHIC, HRA=WHOLE ROCK ANALYSIS						
RASY	5725 5735							
RASY	6730 6740							
RASY	9135 9150							
RASY	11780 11790							
RASY	16255 16265							

Hole W4001

/END

GEOLOGIST.....*W. W. Wickham*.....

Placer Development Limited
V.184(II) Claim Block IV
Wark Twp., Ontario

HOLE W482002
CLAIM NO. F 568454
EQ GRID NORTH -120.00 GRID EAST 500.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 139.30mt.
Logged by: J.R. COTE on (day/mo/yr)...26APR82

FROM 0.00mt. TO 58.00mt.
OVERBURDEN CLAY

FROM 58.00mt. TO 59.20mt.
OVERBURDEN BOULDERS

FROM 59.20mt. TO 64.90mt.
OVERBURDEN CLAY

FROM 64.90mt. TO 65.20mt.
OVERBURDEN BOULDERS
N CASING TO 62.5, B CASING TO 65.2 METRES.

FROM 65.20mt. TO 72.30mt.
med. dark grey ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE , VUGGY
Structures noted: BEDDING dip 30,
.1% QUARTZ as microveins
.01% CHALCOPYRITE as microveins
.3% CALCITE as microveins
1% GRAPHITE as pervasive mineralization
7.10 recovered core in this interval
STRUCTURE IS POSSIBLE BEDDING.

FROM 72.30mt. TO 91.70mt.
med. light green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE , VUGGY , BRECCIATED
Structures noted: BANDING dip 30,
.3% QUARTZ as veins
.03% PYRITE as disseminations and scattered crystals
1% GRAPHITE as breccia fillings
19.40 recovered core in this interval
POSSIBLE FLOW BRECCIA WITH SLIGHTLY GRAPHITIC MATRIX.
CHERTY AT 72.5.

FROM 75.40mt. TO 76.30mt. 100% of this subinterval is
med. light green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE
AGGLOMERATIC TO COARSELY TUFFACEOUS.

HIGHLY CONTORTED BANDING FROM 88.4 TO 91.7, POSSIBLY
A FLOW BOTTOM, AND LIMONITIC STAINING COMMON.

Hole W482002

FROM 91.70mt. TO 91.80mt.
extremely dark grey MASSIVE SULFIDES with 30%PYRITE 40%GRAPHITE
Textures noted: EQUIGRANULAR
0.10 recovered core in this interval
SEMI-MASSIVE SULFIDE IRON FORMATION.

FROM 91.80mt. TO 95.20mt.
extremely dark black ARGILLITE with 10%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE , CONCRETIONARY , SOFT SEDIMENT
SLUMPING
Structures noted: CLEAVAGE dip 25,
.1% PYRITE as blebs
3.40 recovered core in this interval
CONCRETIONS OF PY AND SILICA.

FROM 93.60mt. TO 95.20mt. 50% of this subinterval is
ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE , INTERBEDDED , SOFT
SEDIMENT SLUMPING
Structures noted: BEDDING dip 30, CONTACT dip 830

FROM 95.20mt. TO 98.80mt.
light grey FELSIC VOLCANICLASTIC with ARKOSE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: CONTACT dip 845,
.03% PYRITE as disseminations and scattered crystals
3.60 recovered core in this interval
RE-WORKED TUFFACEOUS MATERIAL. SEVERAL ANGULAR ARGL
CLASTS AT 97.8.

FROM 97.00mt. TO 98.80mt. 10% of this subinterval is
dark grey ARGILLITE
Textures noted: EQUIGRANULAR , MASSIVE , INTERBEDDED
Structures noted: BEDDING dip 30,
SHALEY TO SILTY ARGL, WEAKLY GRAPHITIC.

FROM 98.80mt. TO 103.80mt.
dark grey ARGILLITE
Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING ,
INTERBEDDED
Structures noted: BEDDING dip 30, CONTACT dip 820
.01% PYRITE as disseminations and scattered crystals
1% GRAPHITE as pervasive mineralization
5.00 recovered core in this interval
INTERBEDDED SILTY AND SHALEY ARGL. ABUNDENT MICRO-
FAULTING. WEAKLY GRAPHITIC.

FROM 98.80mt. TO 103.80mt. 20% of this subinterval is
light grey FELSIC VOLCANICLASTIC
Textures noted: EQUIGRANULAR , MASSIVE

Hole W482002

FROM 103.80mt. TO 110.20mt.

extremely dark grey ARGILLITE with 5% GRAPHITE 2.5% PYRITE
Textures noted: EQUIGRANULAR, MASSIVE, VUGGY, CONCRETIONARY
Structures noted: BEDDING dip 25, CONTACT dip 820
.3% CARBONATE as blebs

6.40 recovered core in this interval

DDLONITE ASSOCIATED WITH PY. VUGGY AND UPTO 35% PY
FROM 106.55 TO 107.0.

FROM 103.80mt. TO 110.20mt. 5% of this subinterval is

dark grey ARKOSE

Textures noted: EQUIGRANULAR, MASSIVE, INTERBEDDED

FROM 110.20mt. TO 139.30mt.

medium grey ARKOSE with LAPILLI

Textures noted: EQUIGRANULAR, MASSIVE, GRADED BEDDING, INTERBEDDED

Structures noted: BEDDING dip 25,

.03% PYRITE as disseminations and scattered crystals

29.10 recovered core in this interval

QZ SHARDS IN COARSER ZONES.

FROM 110.20mt. TO 139.30mt. 20% of this subinterval is

dark grey ARGILLITE

Textures noted: EQUIGRANULAR, MASSIVE, INTERBEDDED, SOFT
SEDIMENT SLUMPING

ARGL GRADES INTO FLVC THROUGH THE PREDOMINANT ARKS.

GRADED BEDDING IS TYPICAL OF THIS UNIT, EX. 114.7 TO

114.1, 115.9 TO 115.5, 130.3 TO 130.1. TOPS ARE IN

UP HOLE DIRECTION. ARGL IS WEAKLY GRAPHITIC.

QZ VEIN AT 116.9.

FROM 131.6 TO EOH SOFT SED. SLUMPING IS MORE COMMON,
AND GRADED BEDDING ALMOST ABSENT.

EOH @ 139.3 METRES.

IN-HOLE SURVEY AT 61.00 mt.

GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00

IN-HOLE SURVEY AT 139.30 mt.

GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -42.00

RSUM

RSUM MAX-MIN CONDUCTOR DUE TO GRAPHITIC AND PYRITIC ARGILLITE

RSUM FROM 103.8 TO 110.2 METRES.

Hole W482002

A001								
AUMM								
ALAB								
ATYP								
AMTH								
RASY								
RASY								
A001	8770	8870	2951	5	0.0	13	100	130
A001	8870	8970	2952	5	0.0	12	108	198
A001	8970	9070	2953	0	0.0	16	119	177
A001	9070	9170	2954	5	0.0	7	91	171
A001	9170	9270	2955	20	0.4	3	103	655
A001	10350	10450	2956	5	0.0	48	85	354
A001	10450	10550	2957	5	0.0	32	107	521
A001	10550	10650	2958	5	0.0	78	100	347
A001	10650	10750	2959	0	0.3	8	82	532
A001	10750	10850	2960	10	1.1	94	209	734
A001	10850	10950	2961	5	0.3	47	101	414
A001	10950	11050	2962	0	0.0	29	60	153
A001	11050	11150	2963	0	0.0	7	50	80
A001	11650	11750	2964	0	0.0	9	51	94

SAMPLE PPBAU PPNAG PPMAS PPMCU PPMZN

NO. SWAST SWAST SWAST SWAST SWAST

H-COR H-COR H-COR H-COR H-COR

FA/AA FA/AA FA/AA FA/AA FA/AA

SWAST=SWASTIKA LABORATORIES LTD., H-COR=HALF CORE

FA/AA= FIRE ASSAY/ATOMIC ABSORPTION.

RASY

RASY

RASY

RASY 6875 6885

RASY 7545 7555

RASY 9070 9080

RASY 9255 9265

/END

ADDITIONAL SAMPLES

PET=PETROGRAPHIC, HRA=WHOLE ROCK ANALYSIS.

GEOLOGIST.....*[Signature]*

Placer Development Limited
V.184(II) Claim Block IV
Wark Twp., Ontario

HOLE W482003
CLAIM NO. P 568455
BG GRID NORTH 75.00 GRID EAST 400.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 169.80mt.
Logged by: J.R. COTE on (day/mo/yr)...02MAY82

IN-HOLE SURVEY AT 82.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -48.00

IN-HOLE SURVEY AT 139.30 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -41.00

IN-HOLE SURVEY AT 166.70 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -36.00

IN-HOLE SURVEY AT 169.80 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -36.00

FROM 0.00mt. TO 74.50mt.
OVERBURDEN

FROM 74.50mt. TO 100.50mt.
med. light green ANDESITE with LAPILLI 10%CALCITE
Textures noted: INEQUIGRANULAR
10% QUARTZ as pervasive mineralization
.03% BIOTITE as euhedral crystals
.01% CHALCOPYRITE as disseminations and scattered crystals
1% CHLORITE as eyes, augen
26.00 recovered core in this interval
ANDESITIC LAPILLI TUFF.
TUFFACEDUS WITH QZ-CL LAPILLI IN A CARBONATIZED MATRIX.
QZ-CA VEINING MAKES UP 5% OF SECTION, AND VEINS ARE
1 TO 4 CM WIDE. CL ON NUMEROUS SHEAR SURFACES.

FROM 95.90mt. TO 98.00mt.
100% of this subinterval is
med. dark grey ANDESITE with 2.5%GRAPHITE 2.5%CALCITE
Textures noted: INEQUIGRANULAR
.3% BIOTITE as euhedral crystals
SLIGHTLY GRAPHITIC, LAPILLI ARE CALCARIOUS.

FROM 100.50mt. TO 129.30mt.
med. light green ANDESITE with FELSIC
Textures noted: INEQUIGRANULAR , PORPHYRITIC
2.5% QUARTZ as veins
.3% BIOTITE as disseminations and scattered crystals
.01% CHALCOPYRITE as veins
5% CALCITE as pervasive mineralization
.01% PYRRHOTITE as veins
28.80 recovered core in this interval
ANDESITIC CRYSTAL TUFF WITH CARBONATIZED MATRIX.
QZ-CA VEINING WITH TRACE SULFIDES, THICK VEIN FROM

QZ-CA VEINING WITH TRACE SULFIDES, THICK VEIN FROM
114.2 TO 114.7. POSSIBLE BOMBS PRESENT.

FROM 100.50mt. TO 129.30mt.

20% of this subinterval is

red. light green ANDESITE with LAPILLI

Textures noted: INEQUIGRANULAR

Structures noted: CONTACT dip 15, BANDING dip 25

.3% BIOTITE as disseminations and scattered crystals

.01% PYRITE as disseminations and scattered crystals

.01% CHALCOPYRITE as disseminations and scattered crystals

.01% PYRRHOTITE as disseminations and scattered crystals

LAPILLI TUFF SIMILAR TO 74.5 TO 100.5 METRES.

CONTACTS SHARP OR GRADATIONAL OVER 20 CM.

FROM 129.30mt. TO 138.00mt.

pale green ANDESITE

Textures noted: EQUIGRANULAR, MASSIVE, BRECCIATED

1% QUARTZ as veins

.3% BIOTITE as veins

.3% CALCITE as veins

8.70 recovered in this interval

MODERATLY FINE GRAINED MASSIVE ANDS, POSSIBLY

ASH TUFF OR FLOW. POSSIBLE CHILLED FLOW BOTTOM

FROM 137.8 TO 138.0.

STRONGLY GRAPHITIC FROM 129.3 TO 130.0.

FROM 135.80mt. TO 136.00mt.

100% of this subinterval is

medium green ANDESITE

Structures noted: CONTACT dip D30,

5% BIOTITE as pervasive mineralization

.01% CHALCOPYRITE as disseminations and scattered crystals

THIN FLOW OR DYKE, CHILL MARGIN IS VAGUE.

FROM 138.00mt. TO 157.60mt.

med. dark green ANDESITE

Textures noted: EQUIGRANULAR, MASSIVE, BRECCIATED

Structures noted: BANDING dip 25,

1% QUARTZ as veins

.3% BIOTITE as disseminations and scattered crystals

.3% CHLORITE as laminations and disseminations &/or veins

.3% CALCITE as veins

.1% LEUCOXENE as pervasive mineralization

.01% PYRRHOTITE as disseminations and scattered crystals

19.60 recovered in this interval

COARSELY BRECCIATED, CLASTS OFTEN SLIGHTLY FINER

GRAINED AND LIGHTER COLOURED THAN MATRIX.

BLEACHED BANDS MAY BE FLOW MARGINS. LEUCOXENE FROM

151.8 TO 151.95 METRES.

FROM 151.95mt. TO 153.10mt.

100% of this subinterval is

Hole W482003

medium grey DIORITE
 Textures noted: EQUIGRANULAR , MASSIVE
 Structures noted: CONTACT dip T20,
 VERY FINE FRESH DIORITE DYKE. QZ-CA VEIN FROM 152.85
 TO 153.1 METRES.

FROM 157.60mt. TO 169.80mt.

med. dark grey ANDESITE with 1% GRAPHITE
 Textures noted: EQUIGRANULAR , MASSIVE , BANDED
 .3% BIOTITE as disseminations and scattered crystals
 1% PYRRHOTITE as laminations, bedded

12.20 recovered in this interval

PR FROM 157.8 TO 160.3 IS 5% OF ROCK.
 INTERBANDED GRAY TO GREEN, PROBABLY REWORKED TUFF.

FROM 160.80mt. TO 164.25mt.

100% of this subinterval is

medium green ANDESITE
 Textures noted: EQUIGRANULAR , MASSIVE
 WEAKLY GRAPHITIC AND POSSIBLY TUFFACEOUS. APPEARS NOT
 TO BE REWORKED. CONTACTS GRADATIONAL.

RSUM
 RSUM MAX-MIN CONDUCTOR DUE TO LAMINATED GRAPHITIC AND PYRRHOTITIC
 RSUM MINERALIZATION FROM 157.8 TO 160.3 METRES IN RE-WORKED ANDESITIC TUFF.
 RSUM

RSUM			SAMPLE					
A001			PPBAU	PPMAG	PPMAS	PPMCU	PPMZN	
AUMM			NO.	SWAST	SWAST	SWAST	SWAST	
ALAB			H-COR	H-COR	H-COR	H-COR	H-COR	
ATYP			FA/AA	FA/AA	FA/AA	FA/AA	FA/AA	
AMTH								
A001	7450	7550	2965	10	0.0	6	51	61
A001	7550	7650	2966	5	0.0	12	88	68
A001	7650	7750	2967	0	0.2	19	72	70
A001	7750	7850	2968	0	0.0	9	111	89
A001	7850	7950	2969	0	0.2	14	98	83
A001	7950	8050	2970	0	0.2	15	88	81
A001	8050	8150	2971	0	0.0	16	81	100
A001	8150	8250	2972	0	0.0	17	112	78
A001	8250	8350	2973	0	0.0	18	89	61
A001	8350	8450	2974	0	0.0	16	77	82
A001	8450	8550	2975	0	0.0	17	71	80
A001	8550	8650	2976	10	0.0	13	81	100
A001	8650	8750	2977	5	0.0	15	81	83
A001	8750	8850	2978	5	0.0	16	82	93
A001	9300	9400	2979	0	0.2	2	117	80
A001	9400	9500	2980	0	0.0	5	65	60
A001	9500	9600	2981	0	0.0	7	80	109
A001	9600	9700	2982	0	0.2	17	70	146
A001	9700	9800	2983	10	0.0	23	550	102
A001	15650	15750	2984	10	0.0	1	114	108
A001	15750	15850	2985	10	0.0	3	98	165
A001	15850	15950	2986	5	0.0	2	66	98
A001	15950	16050	2987	5	0.0	3	42	79
A001	16050	16150	2988	0	0.0	2	50	77

Hole W482003

RASY
RASY
RASY 8335 8350
RASY 12020 12035
RASY 13975 13990
RASY 15260 15275

ADDITIONAL SAMPLES

/END

GEOLOGIST. *J. J. Anderson*

Placer Development Limited
V.184(II) Claim Block V
Wark Twp., Ontario

HOLE W582001
CLAIM NO. P 597305 AND P 597307
BO GRID NORTH 700.00 GRID EAST -260.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 200.20mt.
Logged by: J.R. COTE on (day/mo/yr)... APR82

FROM 000.00mt. TO 31.00mt.
OVERBURDEN CLAY

FROM 31.00mt. TO 34.00mt.
OVERBURDEN BOULDERS

FROM 34.00mt. TO 62.00mt.
OVERBURDEN CLAY

NOTE: FOR FRAGMENTAL ROCKS (IE. PYROCLASTIC OR BRECCIAS) / TIER GRAIN SIZE
DATA REFERS TO THE TEXTURE OF CLAST FORMING MATERIAL, NOT TO THE
FRAGMENTS COLLECTIVELY.

FROM 62.00mt. TO 75.20mt.
very dark green TREMLITIC ULTRAMAFIC with TREMLITE , TALC ,
Textures noted: EQUIGRANULAR , MASSIVE , BRECCIATED
1% MAGNETITE as disseminations and scattered crystals
2.5% CALCITE as veins
2.5% SERPENTINE as microveins
13.20 recovered core in this interval
METAMORPHOSED ULTRAMAFIC, POSSIBLY PERIDOTITE.
APPRDX. HARDNESS OF 1.5 TO 2.0. MG NOT VISIBLE BUT MAG
SUSCEPTABILITY IS 1.2. BRECCIATION FROM 71.9 TO 75.0
IS A POSSIBLE FAULT ZONE.

FROM 75.20mt. TO 109.50mt.
dark grey TALCOSE ULTRAMAFIC with TALC , CALCITE , and 20%CARBONATE
Textures noted: INEQUIGRANULAR , PORPHYRITIC , GREASY,SECTILE
20% CARBONATE as pervasive mineralization
.01% PYRITE as veins
.01% CHALCOPYRITE as veins
5% CALCITE as veins
34.30 recovered core in this interval
METAMORPHOSED ULTRAMAFIC, POSSIBLY DUNITE.
VERY SOFT. PORPHYROBLASTS PROBABLY MAGNESITE WITH
MINDR CA.

FROM 109.50mt. TO 127.00mt.
very dark grey TALCOSE ULTRAMAFIC with TALC , , and 10%GRAPHITE
Textures noted: EQUIGRANULAR , BRECCIATED
1% PYRITE as pervasive mineralization
5% CALCITE as veins
17.50 recovered core in this interval
GRADATIONAL CONTACT ZONE, GR POSSIBLY ASSIMILATED
FROM LOWER ARL. PY AND GR INCREASE WITH DEPTH.

Hole W582001

FROM LOWER ARG. PY AND GR INCREASE WITH DEPTH.
FRACTURED FROM 103.3 TO 103.8.

FROM 127.00mt. TO 140.60mt.

extremely dark black ARGILLITE with PYRITE, and 10% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE, CONCRETIONARY, SOFT SEDIMENT
SLUMPING

Structures noted: BEDDING dip 25,
5% PYRITE as nodules
1% HEMATITE as nodules
.01% UNIDENTIFIED MINERAL as microveins

13.60 recovered core in this interval

PY CONCRETIONS PARALLEL TO BEDDING, 0.5% AS VEIN
FILLING. HE IN PY CONCRETIONS OR FORMING VERY THIN
LAMINA. MINERAL XX BRIGHT GREEN, VERY SOFT, ANHEDRAL,
ON FRACTURE AND SHEAR SURFACES.

FROM 127.00mt. TO 140.60mt. 5% of this subinterval is
med. dark grey SILTSTONE

Textures noted: EQUIGRANULAR, MASSIVE
SHARP CONTACT BETWEEN ALTERNATING ARG. AND SILT.

FROM 134.80mt. TO 136.20mt. 100% of this subinterval is
LOST CORE

LOST CORE

FROM 140.60mt. TO 144.50mt.

med. dark grey SILTSTONE with .3%
Textures noted: EQUIGRANULAR, MASSIVE, VUGGY
Structures noted: BEDDING dip 35,
2.5% QUARTZ as veins
.1% PYRITE as disseminations and scattered crystals
5% CALCITE as pervasive mineralization
.03% HEMATITE as laminations, bedded

3.90 recovered core in this interval

TUFFACEDUS AT 143.3 TO 143.35. CA PERVASIVE IN SILT AND
IN SOME VEINS. VEINS ARE CROSS CUTTING OR SUB-PARALLEL
TO BEDDING. VEINS > 2 CM WIDE ARE VUGGY, POSSIBLY DUE
TO CARBONATE LEACHING.

FROM 140.60mt. TO 144.50mt. 30% of this subinterval is

extremely dark grey ARGILLITE with 2.5% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE
1% PYRITE as disseminations and scattered crystals
5% CALCITE as pervasive mineralization
BEDDING FROM 0.1 TO 5.0 CM THICK.

FROM 144.50mt. TO 160.90mt.

extremely dark grey ARGILLITE with 2.5% GRAPHITE
Textures noted: EQUIGRANULAR, MASSIVE
Structures noted: BEDDING dip 35,
5% PYRITE as pervasive mineralization

Hole W582001

.1% CALCITE as veins
1% HEMATITE as laminations, bedded
16.40 recovered core in this interval
BEDDING 0.1 TO 20.0 CM THICK, BUT GENERALLY < 3.0 CM.
HE IN THIN (0.1 CM) LAMINATIONS
PY IN SUB-PARALLEL TO CROSS CUTTING VEINS,
DISSEMINATED, AND LAMINATIONS.

FROM 144.50mt. TO 160.90mt. 20% of this subinterval is
med. light grey SILTSTONE with F
Textures noted: EQUIGRANULAR , MASSIVE
5% CALCITE as pervasive mineralization
BEDDING < 1.0 CM THICK. CA PERVASIVE IN 75% OF
THE SILT LAMINATIONS.

FROM 160.90mt. TO 169.00mt.
extremely dark grey ARGILLITE with 10%PYRITE 5%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: BEDDING dip 35,
10% PYRITE as pervasive mineralization
1% CALCITE as blebs
8.10 recovered core in this interval
PYRITIC-GRAPHITIC ARGILLITE.
PY INCREASES FROM 8 TO 13%. PRESENT AS DISCRETE
BOTROIDAL AGGREGATES, DISSEMINATED, CONCRETIONARY
BLEBS, OR IN SEMI-MASSIVE LAMINATIONS FROM 0.2 TO 10.0
THICK. BLEBS OFTEN SURROUNDED BY CA.

FROM 160.90mt. TO 163.90mt. 5% of this subinterval is
med. dark grey SILTSTONE with F
Textures noted: EQUIGRANULAR , MASSIVE
.3% CALCITE as pervasive mineralization
DECREASES WITH DEPTH, ABSENT BELOW 163.9.

FROM 169.00mt. TO 170.50mt.
extremely dark grey ARGILLITE with 30%PYRITE 10%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: BEDDING dip 50,
1% QUARTZ as veins
30% PYRITE as laminations, bedded
2.5% CALCITE as veins
1.50 recovered core in this interval
PY LAMINATIONS ARE WHISPY.
DARK GRAYISH GREEN FRAGMENTS MAY BE BOMBS OF
INTERMEDIATE VOLCANIC.
GRADATIONAL CONTACT ZONE.

FROM 170.50mt. TO 180.20mt.
med. light green ANDESITE with 5%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE
Structures noted: FOLIATION dip 30,
.3% PYRITE as breccia fillings

Hole W582001

2.5% CALCITE as veins
9.70 recovered core in this interval
ANDS FRAGMENTS 0.1 TO 10.0 CM IN A GRAPHITIC MATRIX.
FRAGMENTS ARE POSSIBLY PYROCLASTIC BOMBS, AND
THE ROCK AN AGGLOMERATE.

FROM 180.20mt. TO 183.50mt.

med. light green ANDESITE
Textures noted: EQUIGRANULAR , MASSIVE
.1% PYRITE as disseminations and scattered crystals
.01% CHLORITE as veins
10% CALCITE as veins
3.30 recovered core in this interval
MASSIVE AND MATRIX IS ABSENT.

FROM 183.50mt. TO 200.20mt.

med. light green ANDESITE with 5%GRAPHITE 10%CALCITE
Textures noted: EQUIGRANULAR , MASSIVE
2.5% QUARTZ as veins
.3% PYRITE as disseminations and scattered crystals
10% CALCITE as veins
16.70 recovered core in this interval
AGGLOMERATE SLIGHTLY LESS GRAPHITIC, UPTO 10% CA
VEINING.

FROM 189.30mt. TO 190.00mt. 100% of this subinterval is
very dark grey ARGILLITE with 5%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE
1% PYRITE as disseminations and scattered crystals
.3% CALCITE as pervasive mineralization
CONTACTS SHARP, ANGULAR, BOUNDED BY CA-QZ VEINS.

EDH @ 200.2 METERS.

IN-HOLE SURVEY AT 61.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00

IN-HOLE SURVEY AT 125.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -53.00

IN-HOLE SURVEY AT 200.20 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -49.00

RSUM MAX-MIN CONDUCTOR DUE TO GRAPHITE AND SULFIDE MINERALIZATION
RSUM FROM 109.5 TO 170.5 METERS.

Hole W582001

A001	AUMM	ALAB	ATYP	AMTH	RASY	RASY	SAMPLE NO.	PFBAU	PPMAG	PPMAS	PPNCU	PPMZN
								SWAST	SWAST	SWAST	SWAST	SWAST
								H-COR	H-COR	H-COR	H-COR	H-COR
								FA/AA	FA/AA	FA/AA	FA/AA	FA/AA
								SWAST=SWASTIKA LABORATORIES, H-COR=HALF CORE				
								FA/AA= FIRE ASSAY/ATOMIC ABSORPTION				
A001	12001	12100					2353	0	0.0	73	20	40
A001	12100	12200					2354	0	0.0	119	41	39
A001	12330	12430					2355	0	0.0	52	52	100
A001	12430	12530					2356	0	0.0	42	76	132
A001	12530	12630					2357	0	0.0	21	61	170
A001	12630	12730					2358	0	0.2	10	97	217
A001	12730	12830					1325	210	0.3	8	158	410
A001	12830	12970					2375	5	0.3	4	180	488
A001	12970	13070					1551	230	0.4	51	172	314
A001	13760	13860					1552	20	0.2	22	78	120
A001	13860	13960					1553	5	0.2	4	75	208
A001	13960	14060					1554	10	0.3	11	118	209
A001	15130	15230					2359	0	0.2	392	74	211
A001	15230	15330					2360	0	0.2	45	83	288
A001	15330	15430					2361	0	0.2	17	105	259
A001	15430	15530					2362	10	0.2	24	66	644
A001	15530	15630					2363	10	0.2	31	120	630
A001	15630	15730					2364	0	0.2	21	102	380
A001	15730	15830					2365	10	0.2	17	110	409
A001	15830	15930					2366	10	0.3	45	57	598
A001	15930	16030					2367	5	0.0	84	60	550
A001	16030	16130					1555	20	0.3	67	128	675
A001	16130	16230					1556	20	0.4	121	102	554
A001	16230	16330					1557	20	0.2	94	84	562
A001	16330	16430					1558	20	0.3	134	104	272
A001	16430	16530					1559	30	0.7	195	150	655
A001	16530	16630					1560	20	0.4	235	254	1300
A001	16630	16730					1561	10	0.5	288	386	1900
A001	16730	16830					1562	20	0.4	148	204	1500
A001	16830	16930					1563	30	0.5	416	239	2100
A001	16930	17030					1564	30	0.4	215	108	498
A001	17030	17130					1565	0	0.0	175	232	326
A001	17130	17230					1566	10	0.6	30	242	314
A001	17850	17950					1567	0	0.0	6	72	169
A001	17950	18050					1568	0	0.0	5	82	168
A001	18050	18150					1569	0	0.0	3	90	172
A001	18150	18250					1570	5	0.0	5	69	114
A001	18250	18350					1571	0	0.0	3	62	98
A001	18350	18450					1572	0	0.0	2	68	102
A001	18800	18900					1573	0	0.0	2	47	122
A001	18900	19000					1574	10	0.0	1	102	104
A001	19000	19100					1575	0	0.3	5	94	129
A001	19230	19330					1790	0	0.0	2	69	160
A001	19330	19430					1791	0	0.0	4	80	145
A001	19430	19530					1792	0	0.0	3	72	125
A001	19530	19630					1793	0	0.0	4	64	144

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A001 19780 19880
A001 19880 20020
RASY
RASY
RASY 7000 7010
RASY 8050 8060
RASY 10470 10490
RASY 14320 14335
RASY 14940 14950
RASY 16430 16440
RASY 17260 17275

1794 0 0.0 11 80 135
1795 0 0.0 2 50 102

ADDITIONAL SAMPLES

PET=PETROGRAPGIC, HRA=WHOLE ROCK ANALYSIS

/END

GEOLOGIST.....*P. J. Anderson*.....

Placer Development Limited
V.184(II) Claim Block VI
Wark Twp., Ontario

HOLE W682001
CLAIM NO. P 597324
BR GRID NORTH 500.00 GRID EAST -100.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 142.30mt.
Logged by: J.R. COTE on (day/mo/yr)...06MA182

IN-HOLE SURVEY AT 61.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -47.00

IN-HOLE SURVEY AT 142.30 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -31.00

FROM 0.00mt. TO 27.40mt.
OVERBURDEN CLAY

FROM 27.40mt. TO 68.30mt.
OVERBURDEN GRAVEL

FROM 68.30mt. TO 90.85mt.
light green FELSIC VOLCANICLASTIC with 10% CHLORITE
Textures noted: EQUIGRANULAR, MASSIVE, GRADED BEDDING, SCHISTOSE
Structures noted: CLEAVAGE dip 25, BEDDING dip 20
5% QUARTZ as macroveins
.03% CARBONATE as macroveins
1% CHLORITE as microveins
.3% CALCITE as macroveins

22.50 recovered core in this interval
RE-WORKED TUFFACEOUS MATERIAL. NUMEROUS BLUE QZ EYES.
ARSL BRECCIA CLASTS IN FLVC MATRIX FROM 82.7 TO 83.2.
GRADINGS IN UP HOLE DIRECTION FROM 82.4 TO 82.7, 86.7 TO
87.1 ETC. SEVERAL SCHISTOSE CHLORITIC ZONES SHOW STRONG
CLEAVAGE. LIMONITIC STAINING ON SOME QZ VEINS.

FROM 83.15mt. TO 85.60mt. 50% of this subinterval is
med. light green FELSIC VOLCANICLASTIC
Textures noted: EQUIGRANULAR, MASSIVE, INTERBEDDED
Structures noted: BEDDING dip 20,

FROM 83.15mt. TO 85.60mt. 30% of this subinterval is
very dark grey ARGILLITE
Textures noted: EQUIGRANULAR, MASSIVE, INTERBEDDED, SOFT
SEDIMENT SLUMPING
Structures noted: BEDDING dip 20,

FROM 90.85mt. TO 93.10mt.
med. light green DIORITE with XENOLITHS
Textures noted: EQUIGRANULAR, MASSIVE
Structures noted: CONTACT dip T20, CONTACT dip B10
.1% CHLORITE as blebs
.03% MARIPOSITE as individual crystals

2.30 recovered core in this interval
MARAPPOSITE AT 91.7, BELOW THIN QZ-CA VEIN.
XENOLITHS < 2 CM, ELIPSOIDAL, ROUNDED.

Hole W682001

XENOLITHS < 2 CM, ELIPSOIDAL, ROUNDED.

FROM 93.10mt. TO 95.00mt.

med. light grey ARKOSE

Textures noted: EQUIGRANULAR , MASSIVE

.03% PYRITE as disseminations and scattered crystals

1.90 recovered core in this interval

CHERTY IN APPEARANCE, AND VERY HARD.

FROM 93.60mt. TO 93.90mt. 100% of this subinterval is

med. dark green DIORITE with 20%CHLORITE

Textures noted: EQUIGRANULAR , MASSIVE , SCHISTOSE

STRONG CL SCHISTOSITY, LIMONITIZED, QTZ VEINED.

FROM 95.00mt. TO 127.90mt.

medium grey ARKOSE with 2.5%GRAPHITE

Textures noted: EQUIGRANULAR , MASSIVE , SOFT SEDIMENT SLUMPING ,
INTERBEDDED

Structures noted: BEDDING dip 20,

5% QUARTZ as macroveins

.03% PYRITE as disseminations and scattered crystals

2.5% CALCITE as pervasive mineralization

.03% PYRRHOTITE as disseminations and scattered crystals

32.90 recovered core in this interval

BEDDING DISRUPTED BY INTENSE SOFT SED. DEFORMATION.

WEAKLY GRAPHITIC AND SILTY.

CA IN QZ-CA VEINS, OR AS EUHEDRAL RECRYSTALLIZATIONS.

SULFIDES AND BR INCREASE WITH LAST 3 METRES.

FROM 127.90mt. TO 133.30mt.

very dark grey ARGILLITE with 20%GRAPHITE

Textures noted: EQUIGRANULAR , CONCRETIONARY , BEDDED , SOFT SEDIMENT
SLUMPING

5% QUARTZ as pervasive mineralization

10% PYRITE as pervasive mineralization

.01% CHALCOPYRITE as disseminations and scattered crystals

2.5% CALCITE as pervasive mineralization

20% PYRRHOTITE as pervasive mineralization

.3% SPHALERITE as disseminations and scattered crystals

5.40 recovered core in this interval

SULFIDE MINERALIZATION CONCRETIONARY AND BANDED WITH

QZ-CA, AND DISSEMINATED.

SULFIDES SEMI-MASSIVE AT 128.3, 128.9, 131.0 METRES.

FROM 129.30mt. TO 130.70mt. 100% of this subinterval is

med. dark grey DIORITE with 5%GRAPHITE SILICEOUS

Textures noted: EQUIGRANULAR , MASSIVE

20% CARBONATE as euhedral crystals

1% PYRITE as pervasive mineralization

5% PYRRHOTITE as pervasive mineralization

EUHEDRAL RHOMBS POSSIBLY DOLOMITE.

Hole W682001

FROM 133.30mt. TO 142.30mt.

light green ANDESITE with BRECCIATED 2.5%GRAPHITE
 Textures noted: EQUIGRANULAR , MASSIVE
 Structures noted: VEIN dip 10, VEIN dip 30
 2.5% QUARTZ as veins
 .3% PYRITE as disseminations and scattered crystals
 5% CALCITE as pervasive mineralization
 .03% MARIPOSITE as disseminations and scattered crystals

9.00 recovered core in this interval

HEALED ANDS BRECCIA WITH HARD GRAPHITIC MATRIX, L TIER
 DATA REFERES TO CLASTS COLLECTIVELY.
 CA PERVASIVE AND SHOWS ORANGE LIMONITIC STAIN.

RSUM MAX-MIN CONDUCTOR DUE TO GRAPHITE AND SULFIDE MINERALIZATION
 FROM 127.9 TO 133.3 METRES.

A001			SAMPLE	PPBAU	PPMAG	PPMAS	PPMCU	PPMZN
AUMM			NO.	SWAST	SWAST	SWAST	SWAST	SWAST
ALAB			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
ATYP			FA/AA	FA/AA	FA/AA	FA/AA	FA/AA	FA/AA
AMTH								
A001	6980	7050	2989	0	0.0	5	40	75
A001	7050	7150	2990	0	0.0	4	41	80
A001	7150	7250	2991	0	0.0	2	29	58
A001	7250	7350	2992	10	0.0	6	42	93
A001	7350	7450	2993	30	0.0	8	38	89
A001	7900	8000	2994	0	0.0	5	46	95
A001	8000	8100	2995	5	0.0	4	31	59
A001	8100	8200	2996	0	0.0	5	35	80
A001	8200	8300	2997	0	0.0	4	37	88
A001	9350	9450	2998	5	0.0	7	51	84
A001	12600	12700	2999	0	0.0	1	56	97
A001	12700	12800	3000	0	0.0	1	56	100
A001	12800	12900	3301	10	0.9	5	190	422
A001	12900	13000	3302	0	0.2	3	68	341
A001	13000	13100	3303	0	0.2	1	87	100
A001	13100	13200	3304	5	0.8	1	168	720
A001	13200	13300	3305	20	0.4	1	107	7200
A001	13300	13400	3306	0	0.0	15	130	1400
A001	13400	13500	3307	0	0.0	5	111	277
A001	13500	13600	3308	0	0.0	7	98	300
A001	13600	13700	3309	0	0.0	137	81	267
A001	13700	13800	3310	0	0.0	81	115	350

RASY ADDITIONAL SAMPLES
 RASY 7605 7615
 RASY 9095 9105
 RASY 10590 10600
 RASY 12935 12945
 RASY 13720 13730

/END

GEOLOGIST.....*[Signature]*

Placer Development Limited
V.184(II) Claim Block VI
Wark Twp., Ontario

HOLE W682002
CLAIM NO. P 597325
BG GRID NORTH 500.00 GRID EAST 225.00
AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 167.60mt.
Logged by: J.R. COTE on (day/mo/yr)...09MA182

IN-HOLE SURVEY AT 61.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -54.00

IN-HOLE SURVEY AT 122.00 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -49.00

IN-HOLE SURVEY AT 167.60 mt.
GRID AZIMUTH OF HOLE 135.00 VERTICAL ANGLE -49.00

FROM 0.00mt. TO 40.80mt.
OVERBURDEN
CASING TO 41.7 METRES.

FROM 40.80mt. TO 53.90mt.
medium green ANDESITE with 20%CALCITE 30%CHLORITE
Textures noted: EQUIGRANULAR, SCHISTOSE, VUGGY
Structures noted: VEIN dip 30,
10% BIOTITE as pervasive mineralization
.01% PYRITE as disseminations and scattered crystals
10% ACTINOLITE as disseminations and scattered crystals
13.10 recovered core in this interval
ANDS TO BASL. STRONG CA VEINING PARALLEL TO
SCHISTOSITY. ACTINOLITE FROM 45.5 TO 46.6 (CONTACT
METAMORPHISM ?) VUGGY IN PLACES, POSSIBLE LEACHING
OF CA. VEINING IN 20% OF SECTION.

FROM 46.60mt. TO 49.30mt. 100% of this subinterval is
dark green DIABASE DYKE with 10%CALCITE
Textures noted: EQUIGRANULAR, MASSIVE
Structures noted: CONTACT dip T15,
APHANITIC, PROBABLY GABBROIC COMP.

FROM 53.90mt. TO 76.70mt.
light green ANDESITE
Textures noted: EQUIGRANULAR, MASSIVE, VUGGY
Structures noted: BANDING dip 35,
5% QUARTZ as veins
10% CHLORITE as pervasive mineralization
5% CALCITE as pervasive mineralization
22.80 recovered core in this interval
TYPICALLY VUGGY AND PITTED, PLAGIOCLASE HAS SPLINTERY
HABBIT. POSSIBLY TUFFACEOUS.

Hole W682002

FROM 76.70mt. TO 96.30mt.

medium grey ANDESITE with 2.5%GRAPHITE 10%CHLORITE
Textures noted: EQUIGRANULAR , BANDED , VUGGY , BRECCIATED
Structures noted: BANDING dip 35,
5% BIOTITE as pervasive mineralization
.01% CHALCOPYRITE as disseminations and scattered crystals
.01% PYRRHOTITE as disseminations and scattered crystals

19.60 recovered core in this interval

POSSIBLY A RE-WORKED ANDS TUFF. NUMEROUS 2 TO 4 CM
WIDE BANDS OF INTENSE CHLORITIZATION AND BIOTITIZATION.
BRECCIATION IS SLIGHT AND WITH GRAPHITIC MATRIX.
ARKOSIC IN PLACES, ESPECIALLY FROM 78.5 TO 81.6.

FROM 96.30mt. TO 102.90mt.

dark green ANDESITE with 30%CHLORITE 5%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE , BANDED , VUGGY
Structures noted: BANDING dip 20,
1% BIOTITE as disseminations and scattered crystals
2.5% CALCITE as veins

6.60 recovered core in this interval

DARK GREEN INTENSLY CHLORITIZED ANDS WITH THIN
SUB-PARALLEL GRAPHITIC BANDS. UPPER CONTACT GRADATIONAL

FROM 102.90mt. TO 115.20mt.

ANDESITE with 10%GRAPHITE BRECCIATED

Textures noted: EQUIGRANULAR , MASSIVE , BRECCIATED , VUGGY

12.30 recovered core in this interval

NOTE / TIER GRAIN SIZE DATA REFERS TO BRECCIA CLASTS.
NUMEROUS 10 TO 15 CM SECTIONS OF HEALED ANDS BRECCIA
WITH GRAPHITIC MATRIX. MINOR LIMONITIC STAINING.

FROM 115.20mt. TO 127.30mt.

ANDESITE with 2.5%GRAPHITE 10%CLAY

Textures noted: EQUIGRANULAR , MASSIVE , VUGGY

12.10 recovered core in this interval

SIMILAR TO PREVIOUS P61, BUT WITH ABSENCE OF BRECCIA
AND PRESENCE OF CHALKY WHITE CLAY, POSSIBLY KAOLINITE.
NOTE ALSO THE ABSENCE OF CA.

FROM 119.50mt. TO 124.25mt. 100% of this subinterval is

ANDESITE with 40%CLAY 60%CHLORITE

Textures noted: EQUIGRANULAR , VUGGY

COMPLETE ALTERATION OF PLAS TO CY, AND CA ABSENT.

FROM 127.30mt. TO 167.60mt.

med. dark green ANDESITE with 20%CALCITE 20%CHLORITE

Textures noted: EQUIGRANULAR , BRECCIATED

.3% QUARTZ as veins

Hole W682002

.1% BIOTITE as disseminations and scattered crystals
 40.30 recovered core in this interval
 ANDS TO BASL FLOW BRECCIA AN AGGLOMERATE.
 PROBABLE SPINIFEX FABRIC FROM 147.8 TO 148.5.

FROM 135.80at. TO 136.00at. 100% of this subinterval is
 extremely dark black ARGILLITE with GRAPHITIC
 Textures noted: EQUIGRANULAR , BEDDED
 Structures noted: CONTACT dip 20,
 GRAPHITIC INTERBEDDING FROM 135.7 TO 136.7.

EDH @ 167.6 METRES.

A001			SAMPLE	PPBAU	PPNAG	PPMAS	PPNCU	PPMZN
AUMM			NO.	SWAST	SWAST	SWAST	SWAST	SWAST
ALAB			H-COR	H-COR	H-COR	H-COR	H-COR	H-COR
ATYP			FA/AA	FA/AA	FA/AA	FA/AA	FA/AA	FA/AA
AMTH								
A001	4170	4250	3311	20	NIL	3	90	71
A001	4250	4350	3312	20	NIL	2	48	47
A001	4350	4450	3313	NIL	NIL	2	49	46
A001	4450	4550	3314	NIL	NIL	1	65	61
A001	4550	4650	3315	NIL	NIL	4	27	38
A001	5700	5800	3316	5	NIL	3	80	79
A001	5800	5900	3317	NIL	NIL	2	91	84
A001	5900	6000	3318	NIL	NIL	4	80	48
A001	9700	9800	3319	10	0.2	5	67	101
A001	9800	9900	3320	NIL	NIL	7	78	122
A001	9900	10000	3321	10	NIL	12	55	123
A001	10000	10100	3322	NIL	NIL	42	76	109
A001	10100	10200	3323	NIL	NIL	6	64	65
A001	10200	10300	3324	NIL	NIL	5	77	79
A001	12700	12800	3325	NIL	NIL	1	11	81
A001	12800	12900	3326	NIL	NIL	1	35	68
A001	12900	13000	3327	NIL	NIL	17	47	57
A001	13500	13600	3328	NIL	NIL	6	101	151
A001	13600	13700	3329	NIL	NIL	7	52	63

RASY

RASY

ADDITIONAL SAMPLES

RASY	4160	4170
RASY	4620	4630
RSAY	11080	11090
RASY	11880	11890
RSAY	14790	14800
RASY	15490	15500

/END

GEOLOGIST.....*[Signature]*

Placer Development Limited
V.184(II) Claim Block VII
Wark Twp., Ontario

HOLE W792001
CLAIM NO. P 595988
BQ GRID NORTH 600.00 GRID EAST 625.00
AZIMUTH OF HOLE 90.00 VERTICAL ANGLE -55.00
TOTAL DEPTH OF HOLE: 187.10mt.
Logged by: J.R. COTE on (day/mo/yr)...17MAY82

FROM 0.00mt. TO 52.40mt.
OVERBURDEN

FROM 52.40mt. TO 52.55mt.
OVERBURDEN BOULDERS
DIORITE BOULDER. CASING TO 51.8 METRES.

FROM 52.55mt. TO 63.00mt.
medium grey GREYWACKE with ANDSITE 5%CHLORITE
Textures noted: MASSIVE, EQUIGRANULAR
.03% QUARTZ as microveins
.01% PYRITE as disseminations and scattered crystals
.03% CALCITE as microveins
10.40 recovered core in this interval
ANDESITIC TO DACITIC FELSIC VOLCANICLASTIC
DENDRITIC PY @ 62.35 METRES.

FROM 52.55mt. TO 63.00mt. 30% of this subinterval is
med. dark green ARGILLITE with 30%CHLORITE ANDSITE
Textures noted: MASSIVE, EQUIGRANULAR, BEDDED, GRADED
BEDDING
Structures noted: BEDDING dip 45, CONTACT dip U55
5% BIOTITE as pervasive mineralization
.03% CARBONATE as spots
.1% PYRITE as eyes, augen
NOTE THAT ARGL IS CHLORITIC.
GRADING OF FLVC TO ARGL FROM 58.8 TO 58.45.
POSSIBLE SOFT SED DEF AT 56.2 METRES.

FROM 54.20mt. TO 54.35mt. 100% of this subinterval is
QUARTZ VEIN

FROM 58.80mt. TO 59.00mt. 100% of this subinterval is
QUARTZ VEIN

FROM 59.85mt. TO 60.05mt. 100% of this subinterval is
QUARTZ VEIN
CA 10 TO 30 % OF VEINS, BI COARSE NEAR VEINS.

FROM 63.00mt. TO 187.10mt.
med. light green GREYWACKE with ANDSITE 10%CHLORITE
Textures noted: MASSIVE, EQUIGRANULAR
.3% QUARTZ as macroveins
.01% PYRITE as microveins
.1% CALCITE as macroveins

Hole W782001

.1% CALCITE as macroveins
124.00 recovered core in this interval
SLIGHTLY GRAYER THAN ABOVE P61.
ROUNDER WHITE QZ FRAGMENTS FROM 117.8 TO 119.9,
PROBABLY TUFFACEOUS.

FROM 63.00mt. TO 149.00mt. 5% of this subinterval is
medium grey ARGILLITE with ANDSITE 30%CHLORITE
Textures noted: EQUIGRANULAR, MASSIVE, BEDDED, BRECCIATED
Structures noted: BEDDING dip 40,
BRECCIA FROM 82.7 TO 82.8, 83.2 TO 83.7, 84.85 TO 84.95
MATRIX IS OF FLVC. REST OF UNIT IS MASSIVE AND BEDDED.

FROM 66.20mt. TO 66.25mt. 100% of this subinterval is
QUARTZ VEIN

FROM 68.80mt. TO 69.20mt. 70% of this subinterval is
QUARTZ VEIN

FROM 71.58mt. TO 71.75mt. 100% of this subinterval is
QUARTZ VEIN

FROM 74.85mt. TO 74.95mt. 100% of this subinterval is
QUARTZ VEIN
1% TOURMALINE as disseminations and scattered crystals

FROM 85.25mt. TO 85.70mt. 60% of this subinterval is
QUARTZ VEIN

FROM 93.35mt. TO 93.47mt. 100% of this subinterval is
QUARTZ VEIN
Structures noted: VEIN dip 815,

FROM 95.35mt. TO 95.80mt. 70% of this subinterval is
QUARTZ VEIN

FROM 96.60mt. TO 96.80mt. 80% of this subinterval is
QUARTZ VEIN
Structures noted: VEIN dip 855,

FROM 97.50mt. TO 97.95mt. 100% of this subinterval is
QUARTZ VEIN

FROM 98.35mt. TO 98.52mt. 100% of this subinterval is
QUARTZ VEIN

FROM 100.85mt. TO 100.99mt. 100% of this subinterval is
QUARTZ VEIN

FROM 102.50mt. TO 106.15mt. 70% of this subinterval is
QUARTZ VEIN

FROM 113.15mt. TO 113.55mt. 100% of this subinterval is
QUARTZ VEIN

SECTION IS 15% QZ-CA VEINING, MICROVEINS TO 60 CM.

Hole W782001

TOURMALINE COMMON IN VEINS BUT GENERALLY FINE GRAINED.
TRACE TO VERY MINOR AM'TS OF FLAKEY PR, PY, AND GR.

FROM 118.80mt. TO 119.20mt. 70% of this subinterval is
QUARTZ VEIN

FROM 120.98mt. TO 121.14mt. 100% of this subinterval is
QUARTZ VEIN

FROM 132.80mt. TO 134.10mt. 70% of this subinterval is
medium green ARGILLITE with 30%CHLORITE
Textures noted: EQUIGRANULAR , MASSIVE , BEDDED
Structures noted: CONTACT dip 150, BEDDING dip 55
.1% PYRITE as disseminations and scattered crystals
.1% CALCITE as disseminations and scattered crystals
1% AMPHIBOLES as disseminations and scattered crystals
POSSIBLE BLACK AMPHIBOLE, HORNBLEND?

FROM 149.00mt. TO 160.00mt. 30% of this subinterval is
med. dark grey ARGILLITE with 10%CHLORITE 10%GRAPHITE
Textures noted: EQUIGRANULAR , MASSIVE , GRADED BEDDING , SOFT
SEDIMENT SLUMPING
Structures noted: BEDDING dip 20, BEDDING dip 25
.1% PYRITE as eyes, augen
ARGL IS DARK GREEN TO DARK GRAY AND WEAKLY GRAPHITIC.
GRADED BEDDING IS COMMON AND IN UP HOLE DIRECTION.
ALSO COMMON IS SOFT SED. DEF. BD IS 25 @ 157.95 AND
20 @ 151.05.

FROM 160.00mt. TO 187.10mt. 20% of this subinterval is
medium green ARGILLITE with 20%CHLORITE 5%GRAPHITE
Textures noted: EQUIGRANULAR , BEDDED , MASSIVE
Structures noted: BEDDING dip 35,
ARGL LESS GRAPHITIC THAN ABOVE RI.
SMALL (3 TO 7 MM) ROUNDED DIORITE(?) GRAINS AT 184.15,
IN FLVC.

EDH @ 187.1 METRES.

IN-HOLE SURVEY AT 61.00 mt.
GRID AZIMUTH OF HOLE 090.00 VERTICAL ANGLE -53.00

IN-HOLE SURVEY AT 122.00 mt.
GRID AZIMUTH OF HOLE 090.00 VERTICAL ANGLE -43.00

IN-HOLE SURVEY AT 187.10 mt.
GRID AZIMUTH OF HOLE 090.00 VERTICAL ANGLE -36.00

AUMN									
ALAB									
ATYP									
AMTH									
RASY									
RASY									
A001	9525	9625	3330	5	0.0	2	58	66	

Hole W782001

A001	9625	9725	3331	0	0.0	4	51	62
A001	9725	9825	3332	0	0.0	2	40	59
A001	9825	9925	3333	0	0.0	3	39	64
A001	10250	10350	3334	0	0.2	0	24	39
A001	10350	10450	3335	0	0.0	3	61	88
A001	10450	10550	3336	0	0.0	3	40	55
A001	10550	10650	3337	0	0.0	3	45	44
A001	11325	11425	3338	0	0.0	3	57	58
A001	11510	11610	3339	5	0.0	4	32	57

RASY

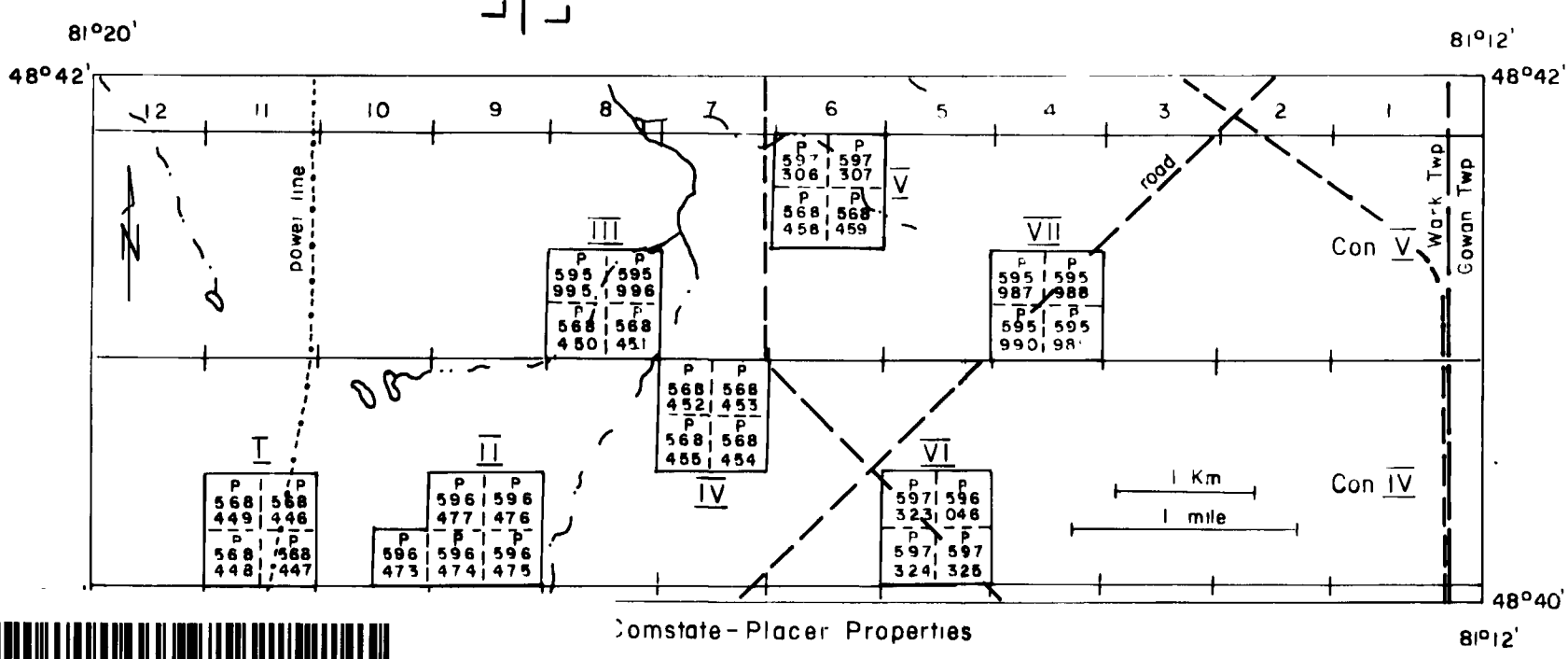
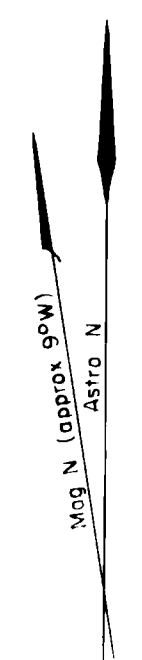
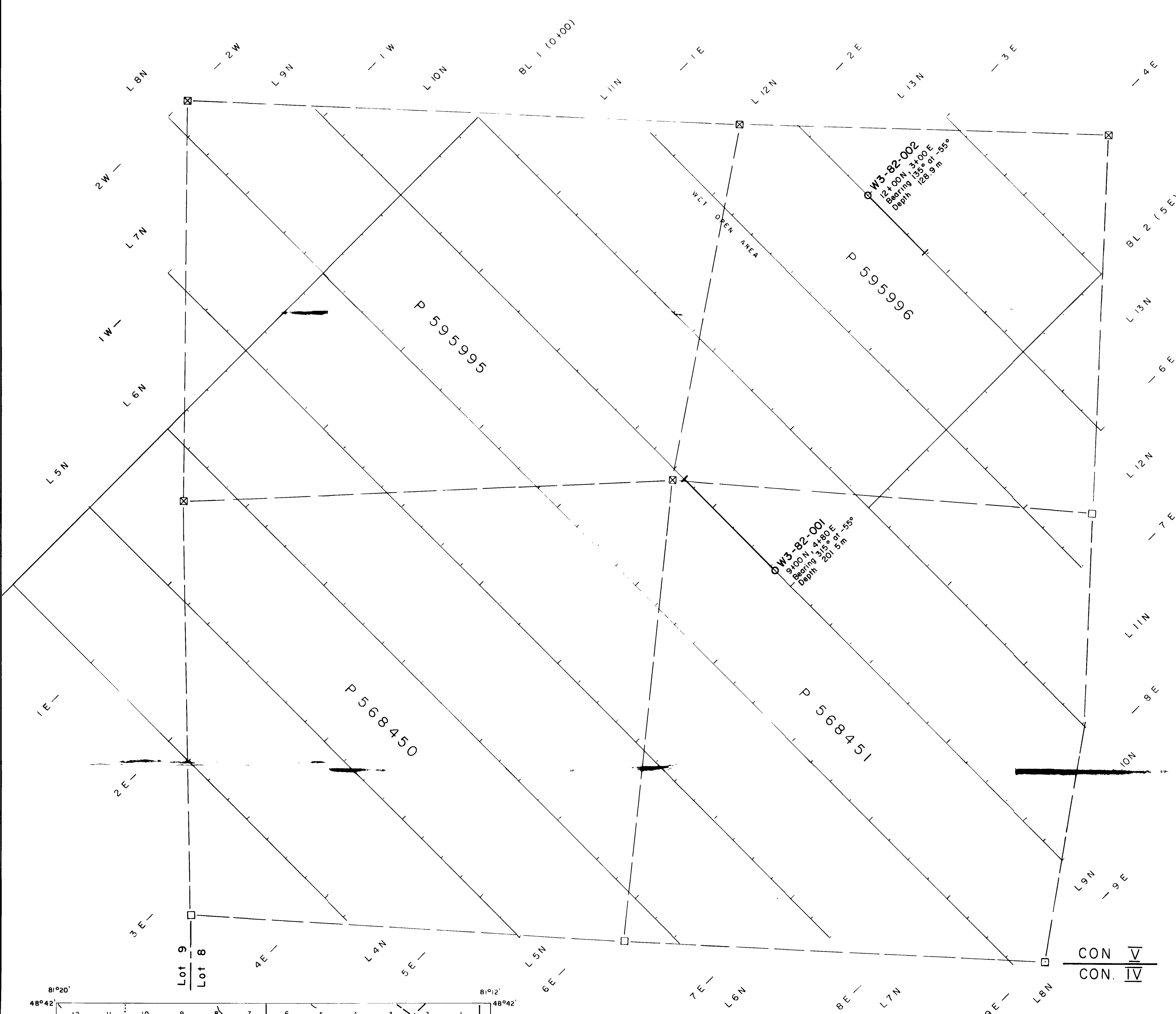
RASY

RASY 11940 11950

ADDITIONAL SAMPLES

GEOLOGIST.....*P. Winkler*

/END



CON V
CON. IV

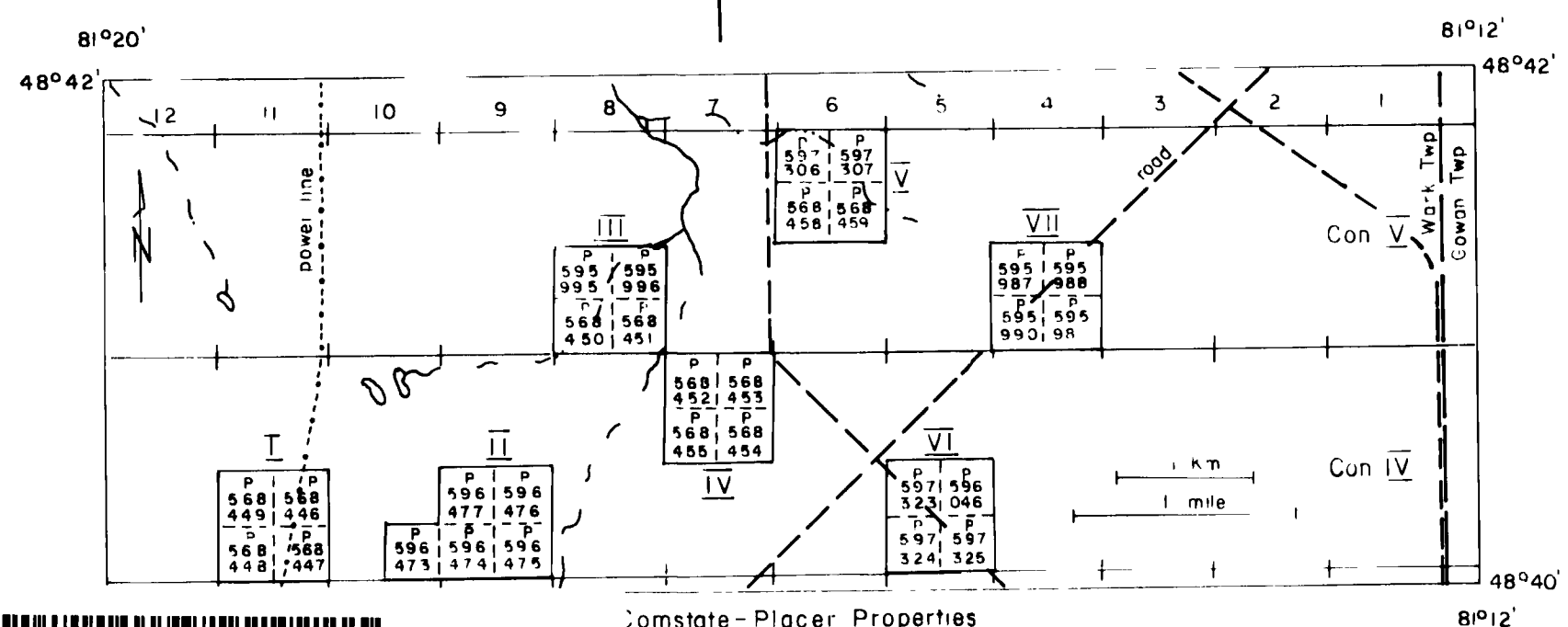
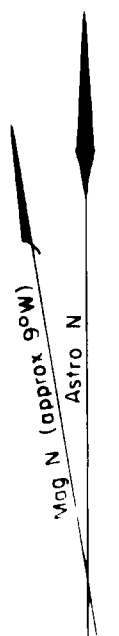
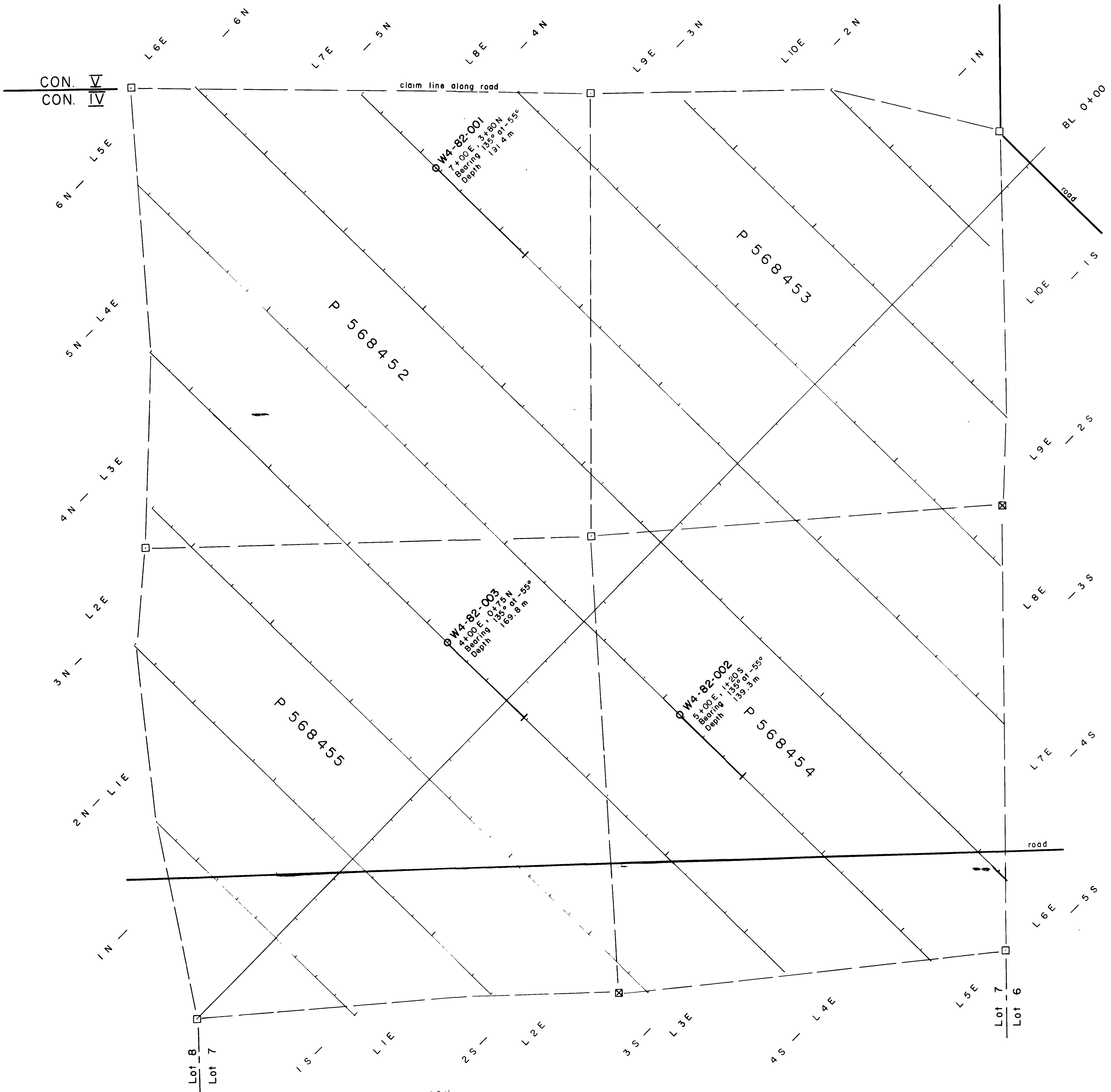
PLACER DEVELOPMENT LIMITED

LOCATION OF DIAMOND DRILL HOLES

WARK TWP CLAIM BLOCK III
COMSTATE OPTION
Timmins Area
Porcupine Mining Division, Ontario

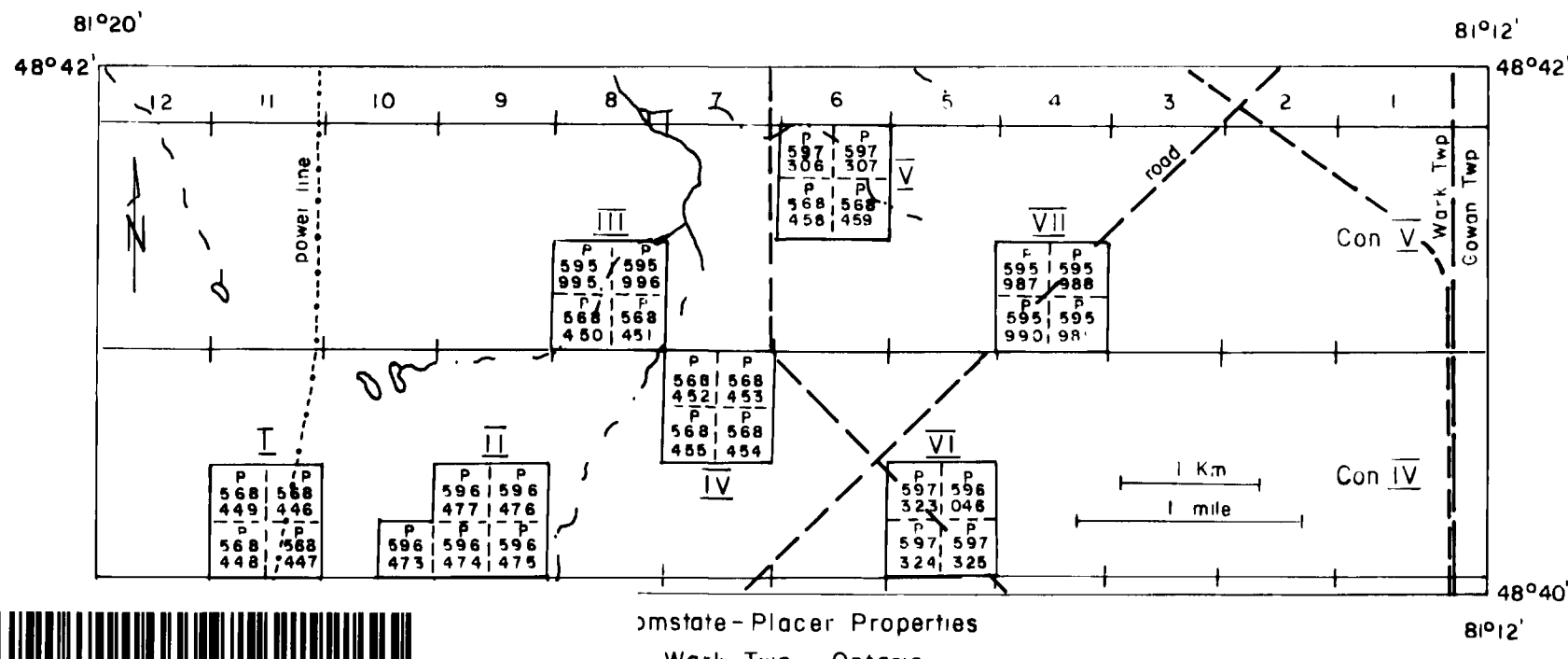
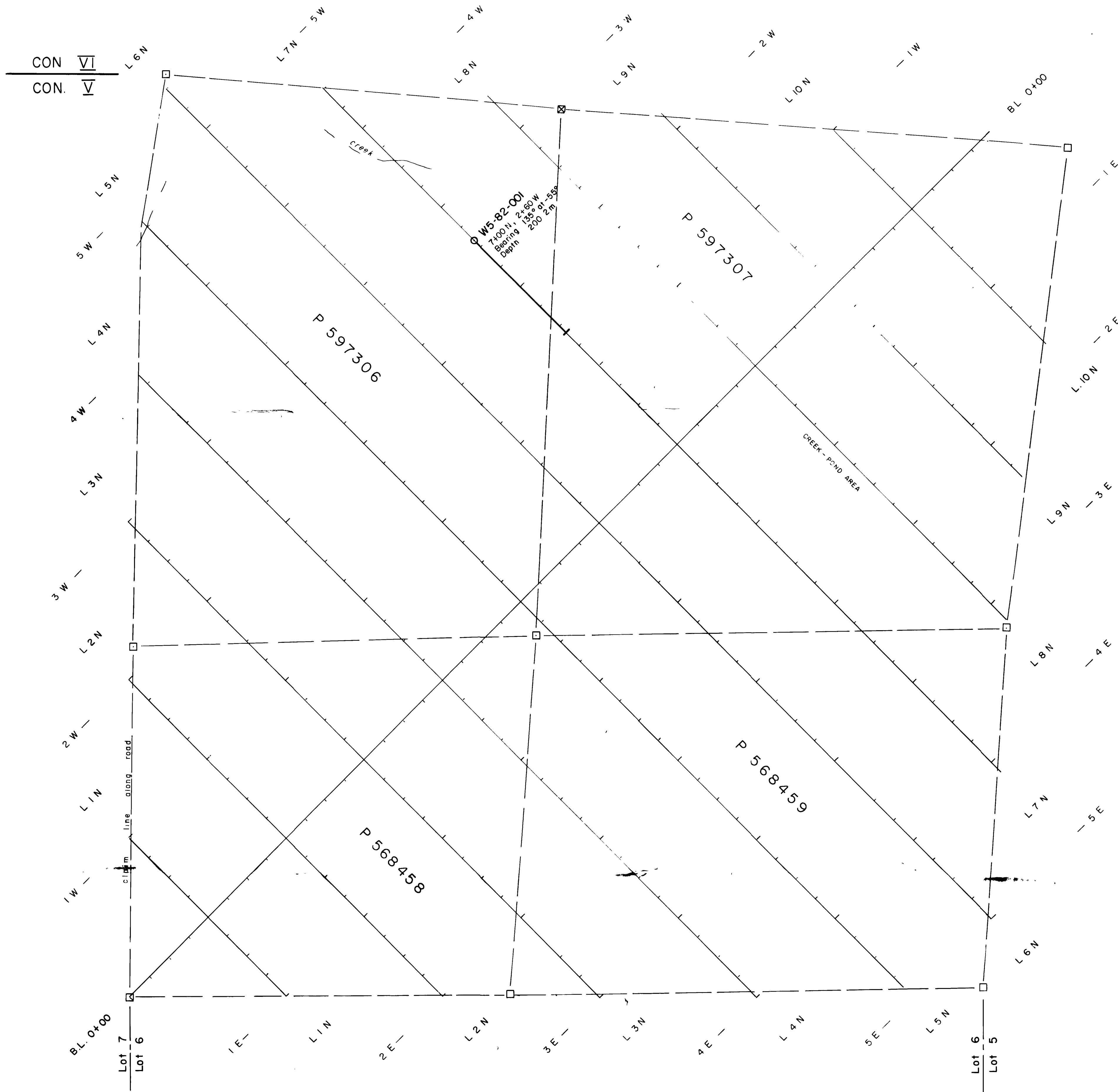
DRAWN J.G.W.	SCALE 1:2000	NTS 42-A-11
TRACED	DATE Dec. 1982	VENTURE 184 (II)
APPROVED		Dwg No 184-43





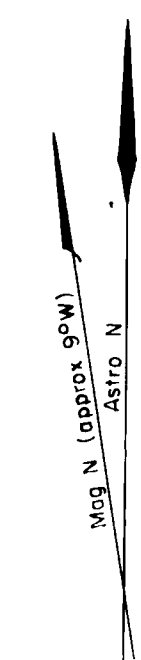
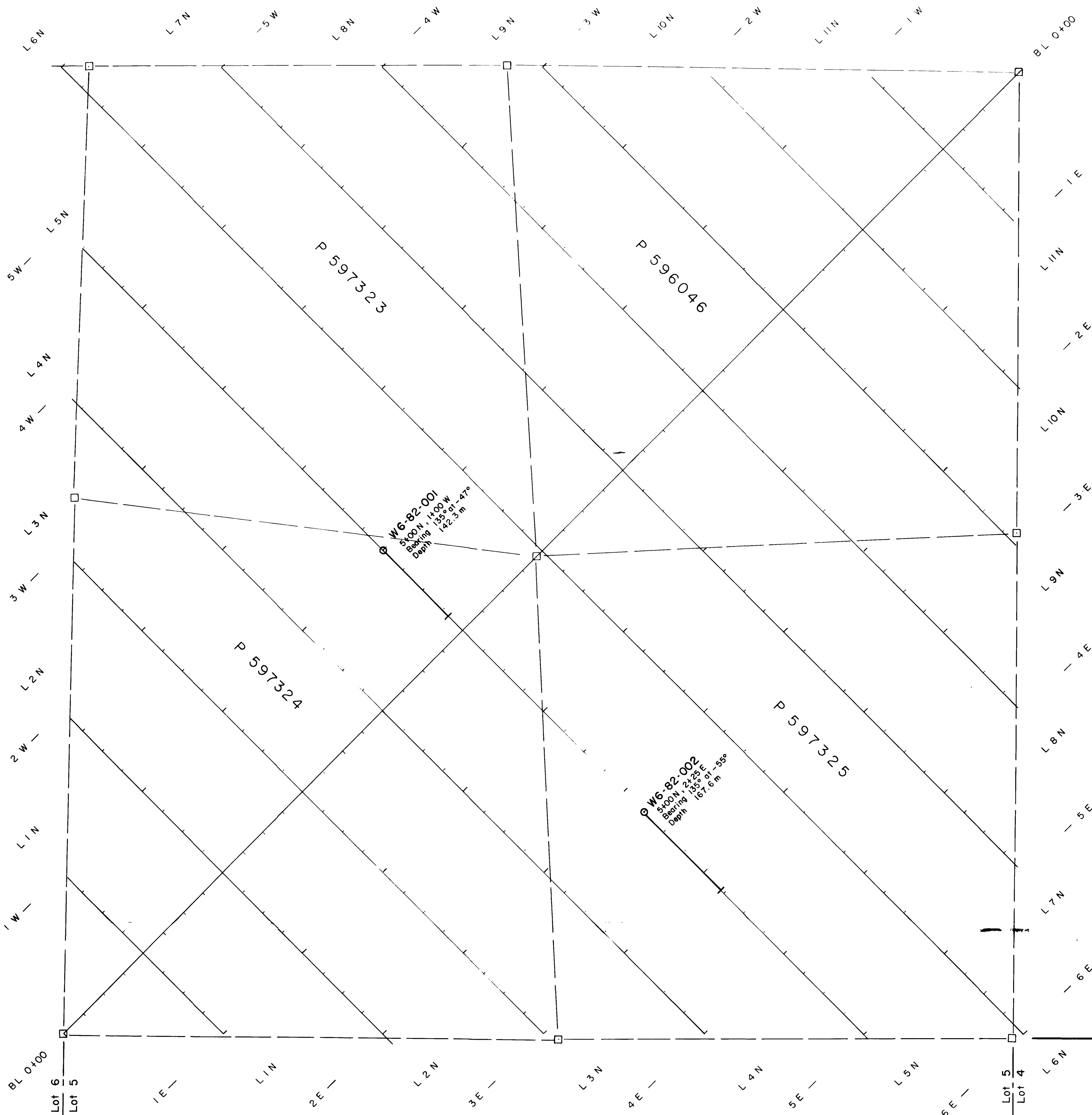
PLACER DEVELOPMENT LIMITED			
LOCATION OF DIAMOND DRILL HOLES			
WARK TWP CLAIM BLOCK IV			
COMSTATE OPTION			
Timmins Area			
Porcupine Mining Division Ontario			
DRAWN	J.G.W.	SCALE	1:2000
TRACED		DATE	Dec. 1982
APPROVED			NTS 42-A-11
			VENTURE 184 (
			Dwg No 184-44



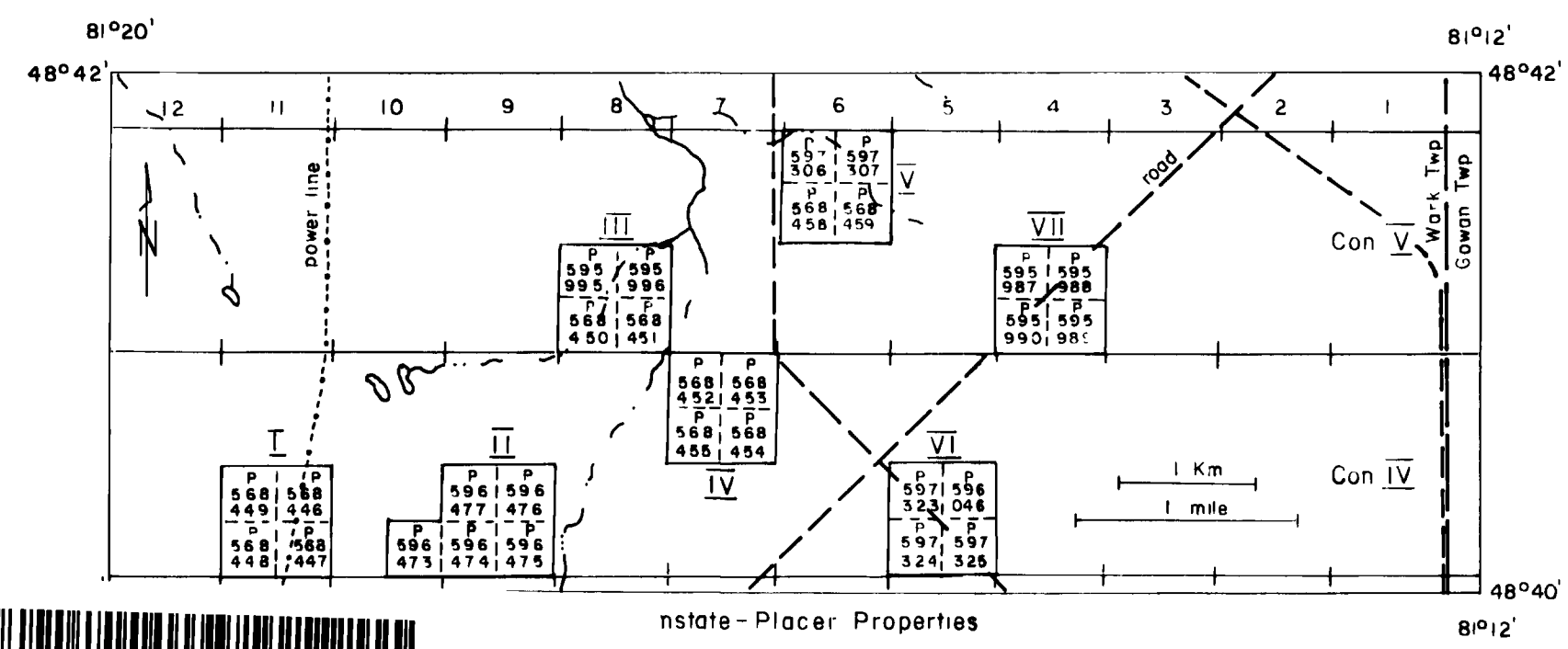


PLACER DEVELOPMENT LIMITED		
LOCATION OF DIAMOND DRILL HOLE		
WARK TWP CLAIM BLOCK V		
COMSTATE OPTION		
Timmins Area		
Porcupine Mining Division, Ontario		
DRAWN J.G.W.	SCALE 1:2000	NTS 42-A-11
TRACED	DATE Dec. 1982	VENTURE 184 (II)
APPROVED		Dwg No 184-45



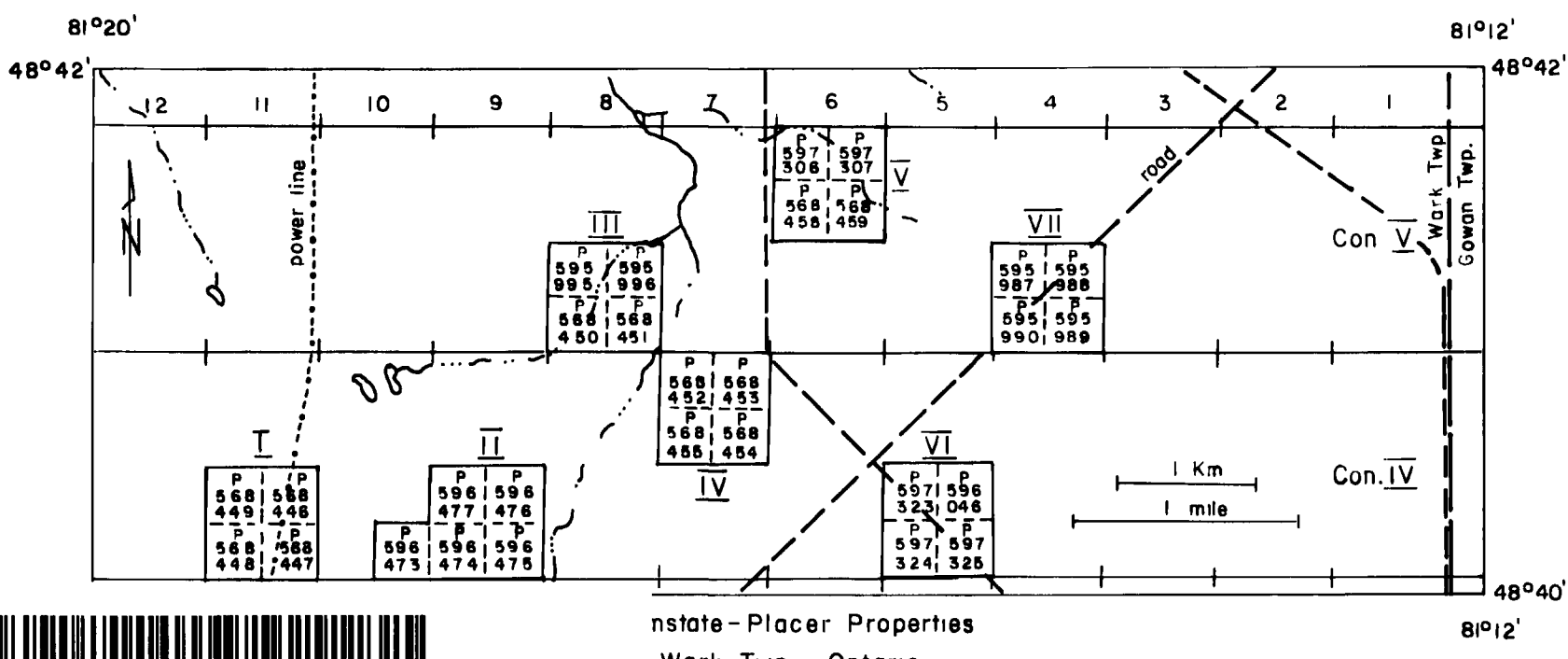
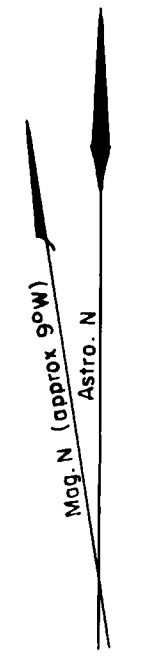
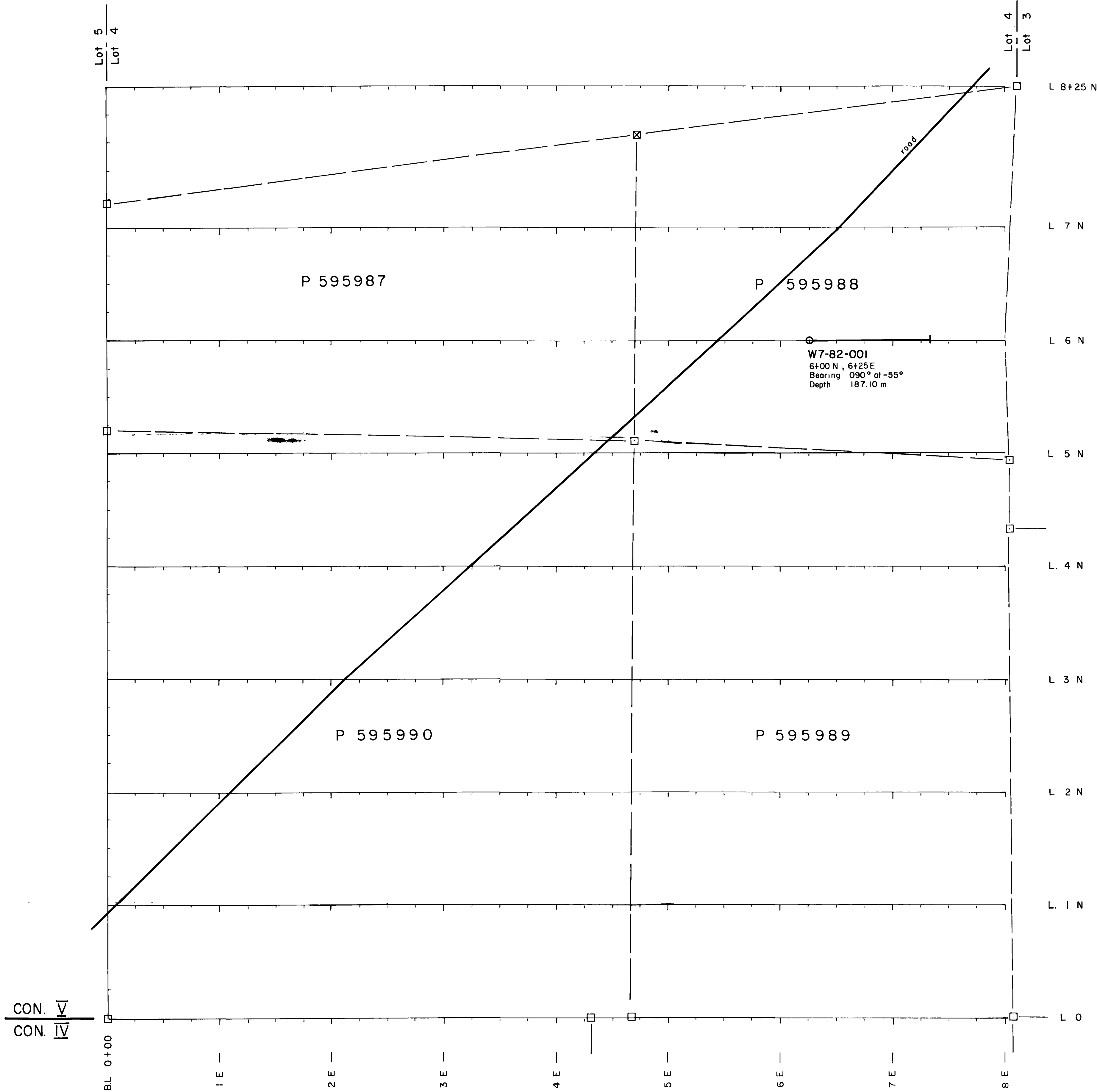


CON. IV
CON. III



PLACER DEVELOPMENT LIMITED		
LOCATION OF DIAMOND DRILL HOLES		
WARK TWP CLAIM BLOCK VI		
COMSTATE OPTION		
Timmins Area		
Porcupine Mining Division, Ontario		
DRAWN	J.G.W.	SCALE 1:2000
TRACED	DATE Dec. 1982	NTS 42-A-11
APPROVED		VENTURE 184 (II)
		Dwg No 184-46





nstate-Placer Properties
Wark Twp., Ontario

PLACER DEVELOPMENT LIMITED		
LOCATION OF DIAMOND DRILL HOLE		
WARK TWP. CLAIM BLOCK VII		
COMSTATE OPTION		
Timmins Area		
Porcupine Mining Division, Ontario		
DRAWN	J.G.W.	SCALE 1 2000
TRACED	DATE Dec. 1982	NTS 42-A-11
APPROVED		VENTURE 184 (II)
		Dwg No. 184-47

