

PLACER U.S. INC.

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DRILLHOLE: DDH-13 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 2.44 meters Departure= 0.62 meters

TRUE AZIMUTH OF HOLE: 315.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION: 0000000000  
 TOTAL DEPTH OF HOLE: 168.00ft.  
 Logged by: JRR on ... 12DEC86

FROM 0.00FT. TO 9.50FT.  
 SYENITE pink and black, WEATHERED  
 Textures noted: MEDIUM-GRAINED , EQUIGRANULAR  
 .03% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 2.5% MAGNETITE as disseminations and scattered crystals  
 .1% HEMATITE as fracture fillings  
 .3% CALCITE as microveins, and veins  
 .1% HEMATITE as stainings or tarnish  
 .3% POTASH FELDSPAR as veins and dalmationite  
 .03% CLAY as breccia fillings  
 1% LIMONITE as stockworks  
 NUMEROUS SMALL ROUNDED MAFIC INCLUSIONS. IRREGULAR  
 CONTACT. FREQUENT SHORT INTERVALS OF OLD, HEALED  
 BRECCIA, POSSIBLY FLOW BRECCIAS, LATER CRACKLED  
 WITH CALCITE. VEIN FILLING IS CALCITE } QUARTZ.  
 OPALINE SILICA VEINLET NOTED AT 146 FT.

FROM 9.50FT. TO 168.00FT.  
 BASALT very dark grey, CRACKLE-BRECCIATED  
 Textures noted: VERY FINE GRAINED  
 .03% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 .3% MAGNETITE as disseminations and scattered crystals  
 trace HEMATITE as stainings or tarnish  
 1% CALCITE as microveins, and veins  
 trace QUARTZ as microveins, and veins  
 trace SILICA as microveins  
 SPECIMEN FOR THIN SECTION TAKEN AT 13 FT.

FROM 9.50FT. TO 26.00FT.  
 100% of this subinterval is the same as 9.50FT. to 168.00FT. except as noted  
 dark grey, BLEACHED , CRACKLE-BRECCIATED  
 1% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 2.5% CALCITE as breccia fillings  
 trace HEMATITE as stainings or tarnish  
 1% CALCITE as pervasive  
 20% CHLORITE as selvages  
 GOES TO CALCITE-MATRIX RUBBLE BRECCIA AT 24-25 FT.

DRILLHOLE: DDH-13 BX PLATINUM BLONDE

cont'd

FROM 75.50FT. TO 79.60FT.

100% of this subinterval is the same as 9.50FT. to 168.00FT. except as noted

dark grey, BLEACHED

.3% PYRITE as vns, microvns, selv. &amp; envel. w some perv./dis. min'l.

NO MAGNETITE

trace HEMATITE as stainings or tarnish

.3% CALCITE as microveins, and veins

.3% POTASH FELDSPAR as veins and dalmationite

FROM 116.50FT. TO 117.00FT.

100% of this subinterval is the same as 9.50FT. to 168.00FT. except as noted

med. light grey, BLEACHED CRACKLE-BRECCIATED

NO PYRITE

NO MAGNETITE

NO HEMATITE

1% CALCITE as breccia fillings

trace QUARTZ as microveins, and veins

1% CALCITE as microveins, and veins

5% CLAY as pervasive

END OF HOLE AT 168 FT.

DRILLHOLE: DDH-14 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 2.44 meters Departure= 0.82 meters

TRUE AZIMUTH OF HOLE: 45.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION:0000000000  
 TOTAL DEPTH OF HOLE: 158.00ft.  
 Logged by: JRR on ... 12DEC86

FROM 0.00FT. TO 3.00FT.  
 SYENITE pink and black, MOTTLED WEATHERED  
 Textures noted: FINE-GRAINED  
 .3% PYRITE as disseminations and scattered crystals  
 trace HEMATITE as stainings or tarnish  
 CONTAINS INCLUSIONS OF MAFICS.

FROM 3.00FT. TO 93.50FT.  
 BASALT med. dark grey, CRACKLE-BRECCIATED  
 Textures noted: VERY FINE GRAINED  
 .3% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 NO MAGNETITE  
 trace HEMATITE as stainings or tarnish  
 1% CALCITE as microveins, and veins  
 .3% PYRITE as blebs  
 10% CHLORITE as selvages  
 THE COLOR IS RATHER LIGHT FOR BASALT--THERE IS A  
 PINK TONE IN PLACES--POSSIBLY FELDSPATHIZED.

FROM 17.00FT. TO 20.00FT.  
 100% of this subinterval is the same as 3.00FT. to 93.50FT. except as noted  
 med. light grey, BLEACHED  
 Textures noted: BRECCIATED  
 2.5% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 30% CALCITE as breccia fillings  
 5% CALCITE as pervasive  
 5% LIMONITE as coatings and encrustations

FROM 49.00FT. TO 58.50FT.  
 100% of this subinterval is the same as 3.00FT. to 93.50FT. except as noted  
 red green,  
 trace PYRITE as patches  
 2.5% HEMATITE as flooding  
 1% HEMATITE as veins  
 2.5% CHLORITE as selvages

DRILLHOLE: DDH-14 BX PLATINUM BLONDE  
cont'd

FROM 58.50FT. TO 59.50FT.

100% of this subinterval is the same as 3.00FT. to 93.50FT. except as noted  
pink and gray, FELDSPATHIZED  
trace PYRITE as disseminations and scattered crystals  
trace HEMATITE as fracture fillings  
.3% CALCITE as microveins, and veins  
60% POTASH FELDSPAR as flooding  
10% CHLORITE as pervasive

FROM 78.00FT. TO 93.50FT.

100% of this subinterval is the same as 3.00FT. to 93.50FT. except as noted  
pink and gray, FELDSPATHIZED  
.3% PYRITE as disseminations and scattered crystals  
5% MAGNETITE as disseminations and scattered crystals  
.3% HEMATITE as stainings or tarnish  
1% CALCITE as microveins, and veins  
1% QUARTZ as microveins, and veins  
30% POTASH FELDSPAR as flooding  
1% CHLORITE as selvages  
QUARTZ-CALCITE VEINS. PATCHILY ALTERED.

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FROM 93.50FT. TO 158.00FT.

SYENITE pink and gray,  
Textures noted: MEDIUM-GRAINED, FLOW-BANDED  
trace PYRITE as disseminations and scattered crystals  
10% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as microveins, and veins  
NUMEROUS SMALL ROUND MAFIC INCLUSIONS NEAR CONTACT.  
SPARSE PYROXENE PHENOCRYSTS FROM 105 FT., BECOMING  
MORE NUMEROUS FROM 120 FT. TO THE END OF THE HOLE.  
THE PHENOCRYSTS ARE PROBABLY BIOTITE AFTER PYROXENE.  
END OF HOLE AT 158 FT.

DRILLHOLE: DDH-15 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 509.90 meters Departure= 0.10 meters

TRUE AZIMUTH OF HOLE: 000.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION: 0000000000  
 TOTAL DEPTH OF HOLE: 178.00ft.  
 Logged by: JRR on ... 13DEC86

FROM 0.00FT. TO 4.00FT.  
 OVERBURDEN: ROTARY DRILLED

FROM 4.00FT. TO 84.00FT.  
 SYENITE med. dark grey, MOTTLED  
 Textures noted: MEDIUM-GRAINED, BANDED  
 trace HEMATITE as stainings or tarnish  
 20% BIOTITE as rosettes & crystal clusters  
 trace LIMONITE as stainings or tarnish

FROM 4.00FT. TO 21.00FT.  
 70% of this subinterval is the same as 4.00FT. to 84.00FT. except as noted  
 yellow brown, WEATHERED  
 Textures noted: BRECCIATED  
 2.5% HEMATITE as flooding  
 2.5% CLAY as patches  
 20% LIMONITE as perv. or dis. min'l.  
 w/ some vns, microvns, selv. & envel.

FROM 4.00FT. TO 21.00FT.  
 30% of this subinterval is  
 BASALT green black,  
 Textures noted: VERY FINE GRAINED  
 trace PYRITE as disseminations and scattered crystals  
 .3% MAGNETITE as disseminations and scattered crystals  
 .3% HEMATITE as stainings or tarnish  
 trace CALCITE as microveins  
 1% LIMONITE as coatings and encrustations

FROM 30.00FT. TO 40.50FT.  
 100% of this subinterval is the same as 4.00FT. to 84.00FT. except as noted  
 pink and black, MOTTLED CRACKLE-BRECCIATED  
 2.5% HEMATITE as fracture fillings  
 trace CALCITE as microveins  
 5% LIMONITE as vns, microvns, selv. envel. & perv./dis. min'l  
 COMING INTO A MAJOR FAULT BRECCIA.

DRILLHOLE: DDH-15 BX PLATINUM BLONDE

cont'd

FROM 40.50FT. TO 63.00FT.

100% of this subinterval is the same as 4.00FT. to 84.00FT. except as noted

FAULT BRECCIA orange brown,

Textures noted: CATACLASTIC MATRIX

5% HEMATITE as perv. or dis. min'l. w/ some vns, microvns, selv. &amp; envel.

trace CALCITE as microveins

.3% QUARTZ as veins

30% CLAY as patches

30% LIMONITE as pervasive

.03% MALACHITE as microveins

MALACHITE RESTRICTED TO THE ONE QUARTZ VEIN AT 43 FT.

FROM 63.00FT. TO 84.00FT.

100% of this subinterval is the same as 4.00FT. to 84.00FT. except as noted

CRACKLE-BRECCIATED

5% HEMATITE as fracture fillings

.3% CALCITE as veins

.3% QUARTZ as veins

20% CLAY as patches

5% LIMONITE as veins and dalmationite

VEINS CONTAIN BOTH QUARTZ AND CALCITE.

FROM 84.00FT. TO 178.00FT.

FAULT BRECCIA red orange, WEATHERED LEACHED

Textures noted: BRECCIATED, CATACLASTIC MATRIX

NO PYRITE

10% HEMATITE as flooding

trace QUARTZ as microveins

40% CLAY as pervasive

40% LIMONITE as perv. or dis. min'l. w/ some vns, microvns, selv. &amp; envel.

trace MALACHITE as disseminations and scattered crystals

ALL FRAGMENTS ARE SYENITE. FRAGMENTS AND GROUNDMASS

ARE STRONGLY WEATHERED.

FROM 111.00FT. TO 118.00FT.

100% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted

med. light red,

trace PYRITE as disseminations and scattered crystals

trace CHALCOPYRITE as veins

1% HEMATITE as fracture fillings

2.5% QUARTZ as macroveins, and veins

50% CLAY as pervasive

2.5% LIMONITE as coatings and encrustations

LESS WEATHERED AND LEACHED. CHALCOPYRITE IN QUARTZ

VEIN.

DRILLHOLE: DDH-15 BX PLATINUM BLONDE

cont'd

FROM 124.00FT. TO 131.00FT.

100% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted  
 red and black,  
 2.5% HEMATITE as fracture fillings  
 2.5% QUARTZ as flooding  
 20% CLAY as pervasive  
 2.5% LIMONITE as coatings and encrustations

FROM 131.00FT. TO 150.00FT.

90% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted  
 red brown,  
 30% HEMATITE as flooding  
 30% CLAY as pervasive

FRAGMENTS BECOME FINE-GRAINED TO SUGARY WITH DEPTH.

FROM 131.00FT. TO 150.00FT.

10% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted  
 pale red,  
 Textures noted: MEDIUM-GRAINED, CATACLASTIC MATRIX  
 5% PYRITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 trace HEMATITE as fracture fillings  
 10% QUARTZ as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 10% CLAY as patches

SILICA SATURATION SEEMS TO HAVE PREVENTED  
 HEMATIZATION. SILICA SATURATED INTERVALS OCCUR AS  
 0.5-1 FT. INTERVALS ISOLATED WITHIN THE HEMATIZED  
 INTERVAL. (ARE THEY FRAGMENTS IN THE BRECCIA?)

FROM 150.00FT. TO 164.50FT.

100% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted  
 white red, SILICIFIED  
 Textures noted: FINE-GRAINED  
 1% PYRITE as disseminations and scattered crystals  
 20% HEMATITE as breccia fillings  
 10% QUARTZ as vns, microvns, selv. envel. & perv./dis. min'l  
 20% CLAY as breccia fillings

FRAGMENTS ARE 60% OF INTERVAL; CLAY-HEMATITE MATRIX  
 IS 40%. FRAGMENTS ARE RHYOLITIC-APPEARING, SILICI-  
 FIED AND ALTERED SYENITE.

FROM 164.50FT. TO 178.00FT.

100% of this subinterval is the same as 84.00FT. to 178.00FT. except as noted  
 dark brown,  
 30% HEMATITE as breccia fillings  
 30% CLAY as breccia fillings

FRAGMENTS ARE MIXED ALTERED AND NORMAL SYENITE.  
 END OF HOLE AT 178 FT.

DRILLHOLE: DDH-16 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 509.90 meters Departure= 0.10 meters

TRUE AZIMUTH OF HOLE: 180.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION:0000000000  
 TOTAL DEPTH OF HOLE: 227.00ft.  
 Logged by: JRR on ... 13DEC86

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FROM 0.00FT. TO 3.00FT.  
 OVERBURDEN: ROTARY DRILLED

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FROM 3.00FT. TO 124.50FT.  
 SYENITE pink and black, MOTTLED  
 Textures noted: MEDIUM-GRAINED , COARSE-GRAINED , BANDED , EQUIGRANULAR  
 .03% PYRITE as disseminations and scattered crystals  
 NO MAGNETITE  
 .3% HEMATITE as stainings or tarnish  
 .3% CALCITE as microveins, and veins  
 trace QUARTZ as microveins, and veins  
 1% LIMONITE as veins and occasional envelopes  
 1% CLAY as patches  
 2.5% CHLORITE as patches

FROM 3.00FT. TO 11.00FT.  
 100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
 yellow red, WEATHERED  
 5% HEMATITE as pervasive  
 5% LIMONITE as perv. or dis. min'l. w/ some vns, microvns, selv. & envel.  
 20% CLAY as patches

FROM 11.00FT. TO 21.00FT.  
 30% of this subinterval is  
 BASALT dark green,  
 Textures noted: VERY FINE GRAINED  
 .3% HEMATITE as breccia fillings  
 .3% CALCITE as vns, microvns, selv. & envel. w some perv./dis. min'l.  
 .3% HEMATITE as flooding  
 .3% LIMONITE as veins and dalmationite  
 OCCURS AS 0.5-1 FT. INCLUSIONS.



DRILLHOLE: DDH-16 BX PLATINUM BLONDE

cont'd

FROM 21.00FT. TO 30.00FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
black and white, MOTTLED FRESH  
NO MAGNETITE  
trace HEMATITE as stainings or tarnish  
NO CALCITE  
NO QUARTZ  
.1% LIMONITE as fracture fillings  
trace CLAY as patches

FROM 30.00FT. TO 45.00FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
CRACKLE-BRECCIATED  
Textures noted: CATACLASTIC MATRIX , BRECCIATED  
1% HEMATITE as veins and occasional envelopes  
trace CALCITE as microveins  
2.5% LIMONITE as coatings and encrustations  
2.5% CLAY as patches  
SMALL CRYSTAL OF FLUORITE IN CALCITE VEINLET  
AT 51.5 FT.

FROM 53.00FT. TO 58.50FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
dark red, CRACKLE-BRECCIATED  
Textures noted: BRECCIATED  
5% HEMATITE as breccia fillings  
5% LIMONITE as flooding  
10% CLAY as patches

FROM 87.00FT. TO 91.00FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
Textures noted: CATACLASTIC MATRIX , BRECCIATED  
5% HEMATITE as breccia fillings  
trace CALCITE as patches  
2.5% CLAY as patches

FROM 97.00FT. TO 103.00FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted  
dark orange,  
Textures noted: CATACLASTIC MATRIX , BRECCIATED  
trace HEMATITE as stainings or tarnish  
trace QUARTZ as veins  
5% LIMONITE as veins and occasional envelopes  
2.5% CLAY as patches

DRILLHOLE: DDH-16 BX PLATINUM BLONDE

cont'd

FROM 103.00FT. TO 119.00FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted

medium red, SILICIFIED MOTTLED

Textures noted: CATACLASTIC MATRIX

trace PYRITE as vns, microvns, selv. &amp; envel. w some perv./dis. min'l.

1% HEMATITE as fracture fillings

10% QUARTZ as vns, microvns, selv. &amp; envel. w some perv./dis. min'l.

1% POTASH FELDSPAR as envelopes

5% CLAY as patches

FROM 119.00FT. TO 124.50FT.

100% of this subinterval is the same as 3.00FT. to 124.50FT. except as noted

red and green,

Textures noted: CATACLASTIC MATRIX, BRECCIATED

5% HEMATITE as flooding

NO QUARTZ

20% CLAY as patches

FROM 124.50FT. TO 207.00FT.

FAULT BRECCIA red white,

30% HEMATITE as breccia fillings

trace CALCITE as microveins, and veins

30% CLAY as breccia fillings

SYENITE FRAGMENTS 40%; SILICIFIED APPEARANCE. MATRIX

60% HEMATITE-FLOODED. QUARTZ VEIN AND SILICIFIED

ZONE AT 130 FT. WITH DISSEMINATED PYRITE AND A

TRACE OF MANGANESE OXIDE.

FROM 134.50FT. TO 139.50FT.

100% of this subinterval is

SYENITE light green, MOTTLED

Textures noted: MEDIUM-GRAINED, CATACLASTIC MATRIX

trace PYRITE as disseminations and scattered crystals

.3% CHALCOPYRITE as veins

trace HEMATITE as fracture fillings

30% QUARTZ as pervasive

1% QUARTZ as microveins, and veins

20% CLAY as patches

CHALCOPYRITE BLEBS IN QUARTZ VEIN AT 135.0 FT.

FROM 139.50FT. TO 142.50FT.

100% of this subinterval is

SYENITE green grey, SILICIFIED

Textures noted: FINE-GRAINED

trace HEMATITE as stainings or tarnish

40% QUARTZ as pervasive

1% QUARTZ as veins

2.5% CLAY as patches

DRILLHOLE: DDH-16 BX PLATINUM BLONDE  
cont'd

FROM 149.00FT. TO 153.30FT.

100% of this subinterval is

SYENITE green red, SILICIFIED  
Textures noted: BRECCIATED  
2.5% PYRITE as disseminations and scattered crystals  
10% QUARTZ as pervasive  
20% CLAY as patches  
5% CHLORITE as fracture fillings

FROM 153.30FT. TO 164.00FT.

100% of this subinterval is

SYENITE dark red,  
Textures noted: DATACLASTIC MATRIX  
10% HEMATITE as pervasive  
trace CALCITE as microveins  
NO QUARTZ  
10% CLAY as breccia fillings

FROM 164.00FT. TO 168.00FT.

100% of this subinterval is

SYENITE med. light grey, SILICIFIED  
Textures noted: FINE-GRAINED  
1% PYRITE as disseminations and scattered crystals  
30% QUARTZ as pervasive  
5% PYRITE as breccia fillings  
20% QUARTZ as breccia fillings  
NO CLAY

FROM 204.00FT. TO 206.00FT.

100% of this subinterval is

SYENITE pink and gray, SILICIFIED  
Textures noted: MEDIUM-GRAINED  
2.5% PYRITE as breccia fillings  
30% QUARTZ as pervasive  
1% PYRITE as disseminations and scattered crystals  
20% QUARTZ as breccia fillings

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FROM 207.00FT. TO 227.00FT.

SYENITE red green, SILICIFIED CRACKLE-BRECCIATED  
Textures noted: MEDIUM-GRAINED  
5% PYRITE as breccia fillings  
.3% HEMATITE as patches  
trace CALCITE as microveins  
20% QUARTZ as pervasive  
1% PYRITE as disseminations and scattered crystals  
10% QUARTZ as breccia fillings

DRILLHOLE: DDH-16 BX PLATINUM BLONDE  
cont'd

FROM 222.00FT. TO 225.00FT.

100% of this subinterval is

FAULT BRECCIA dark brown,  
30% HEMATITE as breccia fillings  
NO CALCITE  
30% CLAY as breccia fillings

FROM 225.00FT. TO 227.00FT.

100% of this subinterval is the same as 207.00FT. to 227.00FT. except as noted

pink and black, MOTTLED  
Textures noted: MEDIUM-GRAINED, EQUIGRANULAR  
NO PYRITE  
NO MAGNETITE  
1% HEMATITE as fracture fillings  
.3% CALCITE as microveins  
NO QUARTZ  
.3% CLAY as patches  
.3% CHLORITE as selvages  
END OF HOLE AT 227.0 FT.

DRILLHOLE: DDH-17 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 30.00 meters Departure= 35.00 meters

TRUE AZIMUTH OF HOLE: 120.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION: 0000000000  
 TOTAL DEPTH OF HOLE: 158.00ft.  
 Logged by: JRR on ... 13DEC86

FROM 0.00FT. TO 6.00FT.  
 OVERBURDEN: ROTARY DRILLED

FROM 6.00FT. TO 22.70FT.  
 SYENITE pink and gray,  
 Textures noted: GRANITIC , MEDIUM-GRAINED  
 1% MAGNETITE as patches.  
 .3% HEMATITE as stockworks  
 .3% LIMONITE as stainings or tarnish

FROM 12.50FT. TO 22.70FT.  
 100% of this subinterval is  
 INTRUSION BRECCIA  
 trace PYRITE as disseminations and scattered crystals  
 10% MAGNETITE as disseminations and scattered crystals  
 40% CHLORITE as patches  
 40% BIOTITE as pervasive  
 FRAGMENTS OF PYROXENITE IN SYENITE, GRADING TO  
 SYENITE DIKES IN PYROXENITE. (BRECCIATED CONTACT.)

FROM 22.70FT. TO 158.00FT.  
 PYROXENITE green black, MOTTLED  
 Textures noted: MEDIUM-GRAINED , GABBROIC  
 10% MAGNETITE as disseminations and scattered crystals  
 .3% QUARTZ as microveins, and veins  
 50% CHLORITE as pervasive  
 40% BIOTITE as pervasive  
 DIKES OF COARSE CRYSTALLINE SYENITE AND PATCHES OF  
 ALTERATION.

FROM 22.70FT. TO 47.00FT.  
 10% of this subinterval is  
 SYENITE medium grey,  
 Textures noted: COARSE-GRAINED  
 AS BELOW:

DRILLHOLE: DDH-17 BX PLATINUM BLONDE  
cont'd

FROM 47.00FT. TO 55.00FT.

100% of this subinterval is

SYENITE medium grey,  
Textures noted: COARSE-GRAINED  
trace PYRITE as disseminations and scattered crystals  
.3% MAGNETITE as patches  
2.5% CLAY as patches

FROM 55.00FT. TO 158.00FT.

60% of this subinterval is the same as 22.70FT. to 158.00FT. except as noted  
very dark green,

Textures noted: FINE-GRAINED , PORPHYRITIC  
.1% PYRITE as disseminations and scattered crystals  
.03% CHALCOPYRITE as disseminations and scattered crystals  
10% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as microveins  
.1% POTASH FELDSPAR as microveins, and veins  
20% BIOTITE as pervasive  
50% CHLORITE as pervasive

FROM 55.00FT. TO 158.00FT.

10% of this subinterval is

SYENITE medium grey,  
Textures noted: COARSE-GRAINED  
trace PYRITE as disseminations and scattered crystals  
.1% CHALCOPYRITE as blebs  
.3% MAGNETITE as patches  
trace HEMATITE as fracture fillings  
.3% CALCITE as microveins  
10% BIOTITE as patches  
1% CHLORITE as patches

THERE MAY HAVE BEEN AN ORIGINAL LITHOLOGIC DIFFERENCE  
THAT CONTRIBUTED TO THE DIFFERENT ALTERATION REACTION  
END OF HOLE 158.0 FT.

DRILLHOLE: DDH-19 BX PLATINUM BLONDE  
COORDINATES: Latitude= 30.00 meters Departure= 35.00 meters

TRUE AZIMUTH OF HOLE: 000.00 VERTICAL ANGLE: -45.00  
COLLAR ELEVATION: 0000000000  
TOTAL DEPTH OF HOLE: 290.00ft.  
Logged by: JRR on ... 10DEC86

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FROM 00.00FT. TO 17.00FT.  
OVERBURDEN: ROTARY DRILLED

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FROM 17.00FT. TO 32.00FT.  
SYENITE pink and gray, FRESH  
Textures noted: COARSE-GRAINED , GRANITIC  
1% MAGNETITE as disseminations and scattered crystals  
.3% LIMONITE as coatings and encrustations  
trace MALACHITE as stainings or tarnish  
CONTAINS SMALL PYROXENITE INCLUSIONS.

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FROM 32.00FT. TO 67.50FT.  
PYROXENITE green black,  
Textures noted: FINE-GRAINED , PORPHYRITIC , POIKILITIC  
trace PYRITE as disseminations and scattered crystals  
trace CHALCOPYRITE as disseminations and scattered crystals  
10% MAGNETITE as disseminations and scattered crystals  
trace HEMATITE as stainings or tarnish  
.3% CALCITE as microveins, and veins  
2.5% POTASH FELDSPAR as veins  
trace MALACHITE as stainings or tarnish  
CHALCOPYRITE OCCURS AS LOCALIZED DISSEMINATIONS. NEAR  
TOP CONTACT, INVADING SYENITE INCLUDES ANGULAR  
PYROXENITE FRAGMENTS.

FROM 48.40FT. TO 53.60FT.  
100% of this subinterval is  
SYENITE medium grey,  
Textures noted: COARSE-GRAINED , CHILLED CONTACTS  
1% MAGNETITE as disseminations and scattered crystals  
trace HEMATITE as stainings or tarnish  
1% CLAY as patches  
CONTAINS PYROXENITE INCLUSION.

DRILLHOLE: DDH-19 BX PLATINUM BLONDE  
cont'd

FROM 62.80FT. TO 64.30FT.

100% of this subinterval is

SYENITE pink and gray,  
Structures noted: BOTTOM CONTACT dip 125,  
1% PYRITE as disseminations and scattered crystals  
.3% MAGNETITE as disseminations and scattered crystals  
CATACLASTIC CONTACT.

FROM 67.50FT. TO 229.80FT.

AUGITE SYENITE dark grey,  
Textures noted: BANDED , MEDIUM-GRAINED , EQUIGRANULAR  
Structures noted: BOTTOM CONTACT dip 105,  
trace PYRITE as disseminations and scattered crystals  
2.5% MAGNETITE as disseminations and scattered crystals  
5% CALCITE as microveins, and veins  
.3% POTASH FELDSPAR as veins  
SMALL PYROXENITE INCLUSIONS (5%). CALCITE VEIN WITH  
WALLROCK BRECCIATION FROM 101-110.5 AND 159-229.8 FT.  
PYROXENITE INCLUSIONS PREFERENTIALLY CARRY SULFIDES.

FROM 120.90FT. TO 123.90FT.

100% of this subinterval is

SYENITE light grey,  
Textures noted: EQUIGRANULAR , MEDIUM-GRAINED , GRANITIC  
Structures noted: BOTTOM CONTACT dip 125,  
trace PYRITE as disseminations and scattered crystals  
.1% PYRITE as blebs  
CALCITE VEIN WITH HEMATITE FOLLOWS CORE 133-134 FT.

FROM 149.50FT. TO 151.00FT.

100% of this subinterval is the same as 67.50FT. to 229.80FT. except as noted  
Textures noted: COARSE-GRAINED

FROM 154.00FT. TO 174.00FT.

100% of this subinterval is the same as 67.50FT. to 229.80FT. except as noted  
Textures noted: COARSE-GRAINED  
CONTAINS SEVERAL SMALL PYROXENITE INCLUSIONS 159-174 FT.

FROM 174.00FT. TO 177.00FT.

100% of this subinterval is

SYENITE pink and gray,  
Textures noted: MEDIUM- TO COARSE-GRAINED  
trace PYRITE as disseminations and scattered crystals



DRILLHOLE: DDH-19 BX PLATINUM BLONDE  
cont'd

FROM 212.00FT. TO 214.50FT.

100% of this subinterval is

PYROXENITE dark black,  
Textures noted: VERY FINE GRAINED , PORPHYRITIC  
trace PYRITE as disseminations and scattered crystals  
5% MAGNETITE as disseminations and scattered crystals  
trace HEMATITE as microveins  
.3% CALCITE as microveins, and veins  
50% CHLORITE as pervasive

FROM 214.50FT. TO 216.00FT.

100% of this subinterval is

GABBRO dark brown, MOTTLED  
Textures noted: EQUIGRANULAR , MEDIUM-GRAINED , GABBROIC  
trace PYRITE as disseminations and scattered crystals  
20% MAGNETITE as blebs  
.03% PYRITE as microveins  
.1% CLAY as patches  
.3% POTASH FELDSPAR as veins

FROM 216.00FT. TO 220.00FT.

100% of this subinterval is

PYROXENITE very dark black,  
Textures noted: MEDIUM-GRAINED , EQUIGRANULAR  
2.5% MAGNETITE as disseminations and scattered crystals  
40% CHLORITE as pervasive  
40% BIOTITE as disseminations and scattered crystals

FROM 220.00FT. TO 225.00FT.

100% of this subinterval is

PYROXENITE very dark grey, FELDSPATHIC SPECKLED  
Structures noted: BOTTOM CONTACT dip 115,  
1% MAGNETITE as disseminations and scattered crystals  
.1% CALCITE as microveins  
40% BIOTITE as rosettes & crystal clusters  
20% CHLORITE as pervasive

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FROM 229.00FT. TO 261.00FT.

PYROXENITE extremely dark black,  
Textures noted: MEDIUM- TO FINE-GRAINED , EQUIGRANULAR , GABBROIC  
2.5% MAGNETITE as disseminations and scattered crystals  
1% CALCITE as microveins, and veins  
40% BIOTITE as rosettes & crystal clusters  
40% CHLORITE as pervasive

DRILLHOLE: DDH-19 BX PLATINUM BLONDE  
cont'd

FROM 229.80FT. TO 261.00FT.

30% of this subinterval is the same as 229.80FT. to 261.00FT. except as noted  
very dark black, FELDSPATHIC  
20% BIOTITE as rosettes & crystal clusters  
20% CHLORITE as pervasive  
40% PLAGIOCLASE as disseminations and scattered crystals

FROM 229.80FT. TO 261.00FT.

2.5% of this subinterval is  
SYENITE pink and gray, FRESH  
Textures noted: COARSE-GRAINED, EQUIGRANULAR  
trace PYRITE as disseminations and scattered crystals  
.3% MAGNETITE as disseminations and scattered crystals  
1% CALCITE as microveins

FROM 240.20FT. TO 241.60FT.

100% of this subinterval is the same as 229.80FT. to 261.00FT. except as noted  
dark grey,  
Textures noted: VERY FINE GRAINED  
Structures noted: VEIN dip 050,  
.3% PYRITE as disseminations and scattered crystals  
5% MAGNETITE as disseminations and scattered crystals  
5% CALCITE as veins  
20% BIOTITE as rosettes & crystal clusters  
70% CHLORITE as pervasive

FROM 245.60FT. TO 247.40FT.

100% of this subinterval is the same as 229.80FT. to 261.00FT. except as noted  
dark grey,  
Textures noted: VERY FINE GRAINED  
.3% PYRITE as disseminations and scattered crystals  
5% MAGNETITE as disseminations and scattered crystals  
5% CALCITE as breccia fillings  
20% BIOTITE as rosettes & crystal clusters  
70% CHLORITE as pervasive

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FROM 261.00FT. TO 290.00FT.

SYENITE med. dark grey, FRESH  
Textures noted: EQUIGRANULAR, COARSE-GRAINED, GRANITIC  
.1% PYRITE as disseminations and scattered crystals  
.3% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as microveins

DRILLHOLE: DDH-19 BX PLATINUM BLONDE  
cont'd

FROM 261.00FT. TO 290.00FT.

30% of this subinterval is

PYROXENITE green black, FELDSPATHIC MOTTLED

Textures noted: MEDIUM-GRAINED, EQUIGRANULAR, GABBROIC

2.5% MAGNETITE as disseminations and scattered crystals

trace HEMATITE as stainings or tarnish

.3% CALCITE as microveins, and veins

40% PLAGIOCLASE as disseminations and scattered crystals

.3% POTASH FELDSPAR as microveins

20% BIOTITE as rosettes & crystal clusters

30% CHLORITE as pervasive

END OF HOLE AT 290 FT.

/END

DRILLHOLE: DDH-20 BX PLATINUM BLONDE  
 COORDINATES: Latitude= 0000000000 Departure= 0000000000

TRUE AZIMUTH OF HOLE: 000.00 VERTICAL ANGLE: -45.00  
 COLLAR ELEVATION: 0000000000  
 TOTAL DEPTH OF HOLE: 180.00ft.  
 Logged by: JRR on ... 10DEC86

FROM 0.00FT. TO 5.00FT.  
 OVERBURDEN: ROTARY DRILLED

FROM 5.00FT. TO 18.70FT.  
 SYENITE light pink, FRESH  
 Textures noted: COARSE-GRAINED , GRANITIC  
 Structures noted: BOTTOM CONTACT dip 090,  
 5% MAGNETITE as blebs  
 .3% HEMATITE as stockworks  
 trace QUARTZ as veins  
 .3% HEMATITE as coatings and encrustations  
 CONTAINS SMALL INCLUSIONS OF PYROXENITE.

FROM 18.70FT. TO 108.90FT.  
 AUGITE SYENITE pink and black,  
 Textures noted: COARSE-GRAINED , INEQUIGRANULAR , CATACLASTIC MATRIX  
 2.5% MAGNETITE as disseminations and scattered crystals  
 .03% HEMATITE as veins  
 .3% CALCITE as fracture fillings  
 trace HEMATITE as stainings or tarnish  
 trace CLAY as patches  
 CATACLASTIC TEXTURE = ROCK MATRIX LOCALLY GROUND UP  
 AND SHEARED.

FROM 32.50FT. TO 38.80FT.  
 100% of this subinterval is  
 SYENITE red brown, FRESH  
 Textures noted: PORPHYRITIC , VERY FINE GRAINED  
 Structures noted: TOP CONTACT dip 080,  
 10% HEMATITE as pervasive  
 .03% CALCITE as microveins, and veins  
 .3% EPIDOTE as selvages  
 LATE SYENITE DIKE.

FROM 50.50FT. TO 50.80FT.  
 100% of this subinterval is the same as 18.70FT. to 108.90FT. except as noted  
 Structures noted: TOP CONTACT dip 085, BOTTOM CONTACT dip 085  
 10% HEMATITE as veins  
 trace HEMATITE as selvages

DRILLHOLE: DDH-20 BX PLATINUM BLONDE  
cont'd

FROM 71.60FT. TO 74.00FT.

100% of this subinterval is

PYROXENITE green black,  
Textures noted: MEDIUM-GRAINED , INEQUIGRANULAR  
trace PYRITE as veins  
5% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as veins  
30% BIOTITE as pervasive  
60% CHLORITE as pervasive  
INCLUSION, ALTERED TO BIOTITE AND CHLORITE.

FROM 74.00FT. TO 98.00FT.

100% of this subinterval is the same as 18.70FT. to 108.90FT. except as noted

.03% PYRITE as disseminations and scattered crystals  
35% PYROXENITE INCLUSIONS IN AUGITE SYENITE. INCLUSIONS  
AS 71.6-74 FT.. SIZE RANGE 0.5-2.0 FT. MINDR CLAY  
ALTERATION OF PYROXENE.

FROM 98.00FT. TO 102.50FT.

100% of this subinterval is

PYROXENITE green black,  
Textures noted: PORPHYRITIC , COARSE-GRAINED  
5% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as vns, microvns, selv. envel. & perv./dis. min'l  
2.5% POTASH FELDSPAR as microveins, and veins  
1% POTASH FELDSPAR as euhedral crystals  
70% CHLORITE as pervasive

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FROM 108.90FT. TO 150.00FT.

PYROXENITE green black,  
Textures noted: MEDIUM-GRAINED , EQUIGRANULAR  
trace PYRITE as disseminations and scattered crystals  
5% MAGNETITE as disseminations and scattered crystals  
.3% CALCITE as microveins, and veins  
40% BIOTITE as rosettes & crystal clusters  
40% CHLORITE as pervasive  
5% POTASH FELDSPAR as microveins, and veins

DRILLHOLE: DDH-20 BX PLATINUM BLONDE  
cont'd

FROM 109.60FT. TO 121.20FT.

100% of this subinterval is the same as 108.90FT. to 150.00FT. except as noted

FELDSPATHIC SPECKLED

Textures noted: MEDIUM-GRAINED , FINE-GRAINED , EQUIGRANULAR , BANDED

.3% PYRITE as disseminations and scattered crystals

1% MAGNETITE as disseminations and scattered crystals

.3% CALCITE as microveins, and veins

5% POTASH FELDSPAR as microveins

40% BIOTITE as rosettes & crystal clusters

20% CHLORITE as pervasive

GABBRO ZONE BETWEEN SYENITE AND PYROXENITE.

FROM 123.50FT. TO 124.10FT.

100% of this subinterval is

SYENITE pink and gray,

Textures noted: COARSE-GRAINED , INEQUIGRANULAR , GRANITIC

Structures noted: TOP CONTACT dip 110,

.3% MAGNETITE as disseminations and scattered crystals

2.5% CALCITE as breccia fillings

.3% UNIDENTIFIED CARBONATE as disseminations and scattered crystals

.3% EPIDOTE as patches

FROM 124.10FT. TO 132.30FT.

100% of this subinterval is the same as 108.90FT. to 150.00FT. except as noted  
green black,

Textures noted: VERY FINE GRAINED , EQUIGRANULAR

.3% PYRITE as disseminations and scattered crystals

2.5% MAGNETITE as disseminations and scattered crystals

.3% CALCITE as microveins, and veins

70% CHLORITE as pervasive

20% BIOTITE as disseminations and scattered crystals

2.5% POTASH FELDSPAR as microveins, and veins

FROM 137.50FT. TO 138.50FT.

100% of this subinterval is

SYENITE pink and gray,

Textures noted: COARSE-GRAINED , INEQUIGRANULAR

Structures noted: BOTTOM CONTACT dip 075,

.3% MAGNETITE as disseminations and scattered crystals

2.5% CALCITE as breccia fillings

.3% UNIDENTIFIED CARBONATE as disseminations and scattered crystals

1% EPIDOTE as patches

DRILLHOLE: DDH-20 BX PLATINUM BLONDE

cont'd

FROM 148.60FT. TO 150.00FT.

100% of this subinterval is

VEIN

Textures noted: FINE-GRAINED , BANDED

Structures noted: TOP CONTACT dip 065,

.3% PYRITE as disseminations and scattered crystals

5% HEMATITE as stockworks

5% CALCITE as microveins, and veins

20% LIMONITE as pervasive

30% EPIDOTE as pervasive

1% UNIDENTIFIED CARBONATE as euhedral crystals

FROM 150.00FT. TO 153.40FT.

INTRUSION BRECCIA med. dark black, MOTTLED

Textures noted: CATACLASTIC MATRIX

Structures noted: BOTTOM CONTACT dip 060,

10% HEMATITE as pervasive

.03% CALCITE as microveins

.3% UNIDENTIFIED CARBONATE as disseminations and scattered crystals

SMALL INCLUSIONS OF PYROXENITE IN SHONKINITE; BOTH

ROCKS LOCALLY GROUND-UP: CATACLASTIC GROUNDMASS WITH

HEMATITE.

FROM 153.40FT. TO 180.00FT.

AUGITE SYENITE med. dark grey, MOTTLED

Textures noted: MEDIUM- TO FINE-GRAINED , CATACLASTIC MATRIX , BANDED

.3% PYRITE as disseminations and scattered crystals

2.5% MAGNETITE as disseminations and scattered crystals

2.5% HEMATITE as vns, microvns, selv. &amp; envel. w some perv./dis. min'l.

1% CALCITE as microveins, and veins

CUT BY SMALL SYENITE DIKES AND CATACLASTIC ZONES.

THE FIRST ONE FOOT IS VERY COARSE GRAINED.

FROM 153.40FT. TO 180.00FT.

20% of this subinterval is

SYENITE pink and gray,

Textures noted: COARSE-GRAINED , INEQUIGRANULAR , GRANITIC

.3% MAGNETITE as disseminations and scattered crystals

2.5% CALCITE as breccia fillings

.3% UNIDENTIFIED CARBONATE as disseminations and scattered crystals

1% EPIDOTE as patches

END OF HOLE AT 180 FT.

/END