CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA LIMITED

HOLE No. 67

DETAILED GEOLOGY, DRILL LOG

Glacier Gulch 802522

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
0	38	Light to medium greenish gray Granodiorite 6-2, 6-3	Light to medium greenish-grey, buff or pinkish, fine to m.g. gd. Granophyric & porphyritic texture in places. Rounded to sub-angular qtz at f-spar to 2mm. 0-3 med greenish-gy grd-weakly granophyric 6-3 3-13 pale buff, greenish or pinkish grey g.d. 6-2 5-6 strong qtz-carb vein (shear) partially brecciated 20° ca. 13-38 med greenish-gy or pinkish g.d. 6-3 34-36 banded q.v. c.g. moly 40° ca.	Argillization produces buff colour, strongest where intens of qtz veining is high. Ser-carb-greenish pervasive except in argillized rk. Feldspathization-pink f. sp bordering q. veins & small fractures. Chlorite-in blotches & in narrow stringers in 6-3.	0-10 26 qv some lost ore 10-20 28 qv swarm @ 12' 40° ca. 20-30 25 qv 30-40 28 qv
38	54	Dark greenish grey granodiorite 6-6	Dark greenish-gy fine-to med grained slightly granophyric & porphyritic g.d. Dark colour due to very thin fracture-controlled femag & tiny clots of same. Probably some rk as above. Rock is pinkish &/or lighter-coloured in places. 38-41 pinkish zones along veins--feldspathization 6-6 41-49 dark greenish g.d. 6-6 49-51 greenish black, slight porphyritic much femag 51-54 med to dark greenish gy g.d. grano- 6-7 phyric texture more apparent-6-3, 6-6. Minor feldspathization.	Femag-more intense than above-localized in tiny clots or along hairline fractures. Feldspathization less common than above-same mode.	40-50 24 q.v. 40° 28.2 50-60 29 q.v. 40°
54	60	Light greenish-grey granodiorite 6-2	Light green or pinkish buff fine-grained granodiorite Granophyric texture more strongly developed than above. Green colour due to pervasive ser-carb altn. Buff colour argillization.	Ser-carb pink green or buff-pervasive. Argillizes-white to pinkish buff.	57 - well min. qtz-moly
60	140	Medium greenish &/or pinkish-grey granodiorite 6-3	Medium greenish-&/or pinkish grey fine grained granodiorite. Granophyric texture well developed. Qtz grain <1mm. Greenish colour due to chlorite or other femag in clots & along hairline fractures or to ser-carb alt'n. Pink due to K-spar development, bordering qtz-carb-moly veins.	K-spar buff to bright pink f-spar along veins-texture similar to wall-rk(granophyric)	Chalco common between 78-109 70-80 22 qv 80-90 25 qv } 30°ca 90-100 24 qv } 25.0

R. V. KIRKHAM

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60	140	As above.	60-64 strong femag veining-greenish black bands-vfg. intensely alt'd (femag K-spar) granodiorite. 64-71 intense ser-carb along veins, some patchy bleaching-strong, bio. alt'n @ 66 71-99 less intensely alt'd f.g. med greenish-gy g.d. some scattered K-spar & ser-carb along veins. 99-101 6-7 dk, v.f.g. femag rich rk. 101-108 medium to dark greenish-gy g.d. 6-6-minor feldspathization, femag more evenly dissem. 108-109 banded qtz-moly vein-moly is f.g. 109-114 as above 114-117-med-greenish pinkish grey gd. med grained. Granitic equigranular texture becomes increasingly apparent in this section. 117-120-Pinkish colour more pronounced rock as above. 120-131-Med-greenish gy, fine-grained equigranular Gd 6-3. 131-140-Highly altered greenish & pinkish-grey GD. Many hairline fractures & slips & femag. Feldspathization pervasive & strong. Granophyric texture re-appears.	From 131 on femag veinlets become more common. From 131 on feldspathization becomes more pervasive than above.	100-110 12 qv 30° 110-120 17 qv 30° 120-130 22 qv 130-140 17 qv. Chalco pyrite common.
140	156	Light greenish-or pinkish grey granodiorite aplite 1-3	Mainly leucocratic pink aplitic granophyric GD. Minor med greenish grey GD. The leucocratic phase is apparently a result of more intense feldspathization and argillization. (Granophyric texture is much more apparent than above.) Femag is almost absent in leucocratic phases, but well developed in other darker rock. Feldspathization apparently is not coincident with femag. They rarely occur together.	Feldspathization-Kspar-pink well developed in zones <1 and bordering small veins. Argillization produces bleached effect.	140-150 34 qv @ 40° to ca. 150-160 34 qv. Banded qtz. moly veins @ 141 (2") and 153 (2").

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156	166	Medium greenish or pinkish grey granodiorite 6-3	Mainly altered medium greenish or pinkish grey fine to medium grained GD. Alt'n marks texture: Granularity predominant, granophyric minor.	Femag- streaky, patchy-concentrated along fracture K-spar as before.	164 banded qtz-moly vein (2") schalco in veinlets is common.
166	182	As above highly altered.	Rock as above but alteration more intense. Femag more strongly developed.		160-170 24 qv 30-40° 170-180 18 qv.
182	187	Pink & med greenish grey "normal" GD. 6-3	Pink to med. greenish-grey normal GD. Feldspathization well developed in patches. Femag less well developed but concentrated in dark grey patches.	Patchy intense K-spar feld-spathization.	180-190 26 qv. chalco.
187	221	Light to medium greenish-grey normal granodiorite 6-3	Light to medium grey fine-grained equigranular GD. Minor granophyric texture. Rock is not much altered Minor feldspathization along veins. Femag dissem. Scattered laths f-spar (∠ 2mm) common.		190-200 11 qv. 22.6 200-210 17 210-220 11
221	226	Pink to grey altered grano-diorite.	Intense K-feldspathization in zones of fracturing. Original rk as above.	Intense K-spar.	220-230 30 qv. 40° chalcopyrite common.
226	242	Dark greenish-grey granodiorite 6-6	Dark greenish-grey fine grained equigranular GD. Uniform texture relatively unaltered minor K-spar. Darker femag patches contain magnetite. 240-241 Banded f.g. moly-qtz vein @ 40° ca.	Abundant femag as diss. or along hairline fractures.	230-240 23 qv. 40° chalco common.
242	268	Light to medium greenish grey granodiorite 6-3	Mainly light greenish grey GD. Equigranular fine-gd Lighter areas (bleached) have some K-spar. 242-252 light greenish gy GD. Some feldspathization 252-256 altered feldspathization pinkish colour 256-268 light green l gy GD.	Ser-carb alt'n pervasive pink olive green-strongest in lighter coloured phases. Feldspathization moderate from 252-256.	240-250 14 qv. 1' vein @ 240 250-260 25 qv 30°-40° ca 260-270 12 qv.

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268	286	As above 6-3	Light to medium greenish grey f.g. GD. equigranular	Ser-carb-weak pervasive	270-280 20 qv.
286	293	Pinkish altered granodiorite	Weakly to intensely feldspathized GD. Org. rock as above.	Feldspathization-pink most intense near large veins.	280-290 17 qv. chalcopyrite mineralization-better here.
293	322	Altered greenish grey granodiorite 6-3	Medium greenish-grey altered granodiorite. Fine-grained "granitic" texture obliterated by alteration. Rock is variously pink, olive green, or greenish-grey depending upon type and intensity of alteration. Occasional garnetiferous patches-vfg-red brown.	Ser-carb intense in places olive green-pervasive Feldspathization moderate local development on veins. Femag-intense in patches hairline fractures (slips?)	Banded fg qtz-moly vein @ 305' (3") and @ 293' 290-300 24 qv. 30° 19.6 300-310 20 310-320 10
322	342	Light greenish grey or pinkish altered granodiorite.	322-330 Light greenish grey f.g. GD. equigranular weak ser-carb alt'n-femag veinlets. 330-331 Femag-rich patch-blotches of f.g. garnet & epidote (reddish-brown) slight development of granophyric texture apparent in garnetiferous rk. magnetite. 331-332 as in 322-330 332-342 Highly altered GD-Feldspathized-pinkish-pervasive development of K-spar-small patches of femag alt'n as in 330-331-occasional veinlets of black femag mat'l.	Ser-carb-olive green pervasive weak but uniform. Garnet & magnetite epidote patchy v.f.g. replaces f-spar. Feldspathization-strongest near veins-pervasive.	320-330 16 qv. 30° 330-340 15 qv. chalco less common.
342	380	Light to medium greenish grey granodiorite 6-3 6-6	342-346 Medium to dark grey f.g. equigranular GD Weakly altered-femag veinlets-weak ser-carb. 346-368 Moderately altered med greenish or pinkish grey f.g. GD-light coloured phases-rock becomes fine-grained down hole-ser-carb, garnet-epi, & feldspathization stronger than above. 368-371 Strong ser-carb alt'n apple-green greasy 371-380 Altered greenish grey f.g. GD-many femag veinlets. Texture coarser-gd. near qtz veins.	Ser-carb strongly developed 368-371-pervasive-obscure all texture of GD-v.f.g. Garnet-epidote-patchy vfg.	340-350 11 qv. 14.4 350-360 19 qv. 360-370 13 qv. 370-380 22 qv. 30°

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380	390	Dark greenish grey granodiorite aplite (dyke?) 1-6 Block Zone	Mainly dark greenish grey very fine-grained slightly granophyric aplite. Lighter coloured patches of coarser grained material. Contacts at 380 and 390 very sharp but irregular.	gar-epi mag-smaller blebs.	380-390 6 qv.
390	426	Light to medium greenish grey granodiorite 6-3	Mainly light (some medium) greenish grey fine-gd equigranular granodiorite. Femag veins & veinlets & assoc'd pyrite. 416-422-pinkish-K-spar weak 424-425-Strong ser-carb-green rk.	Femag-black, vfg. mat'l in veinlets & veins up to ½" Feldspathization absent or weak = Gar-epi mag-small patches. Ser-carb isolated intense sections.	390-400 19 qv 15.8 1" banded qtz-moly vein @ 395' 400-410 22 qv 40° 410-420 12 qv. 420-430 22 qv. 30°
426	451	Light greenish-(buff pink) grey granodiorite 6-2	Light coloured (buff, pink, pale green) grey granodiorite. fine grained-mainly equigranular, same granophyric development. Minor patches of darker grey, femag-rich mat'l. Intense fracturing at qtz veining ; abundant K-spar & clay alt'n between 428 & 438.	Feldspathization-weak to strong-strongest near stockwork veins. Argillization-f-spars altered buff.	430-440 45 qv. 30° 440-450 33 qv. 26.8
451	481	Medium to dark green grey granodiorite 6-3, 6-6	Medium to dark greenish grey fine grained equigranular GD. As above but more femag. Rock appears to become slightly coarser grained down this section. 451-455 med greenish gy GD 6-3 455-468 dark grey 6-6 small patches of femag. 468-481 med greenish gy highly altered 6-3. Colour of rock is apparently a direct function of the amount of femag alt'n developed along hairline fractures--More intense fracturing→more femag. These fractures apparently are not related to quartz veining.	Femag-seeopposite-strong between 455-468-along cracks. F-spathization-salmon pink-then borders on qtz veins.	450-460 25 qv. 40° 460-470 29 qv. 30° 470-480 28 qv.

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481	510	As above 6-3	481-484 Intense biotite alteration. Dark brown, fine-grained matrix ; feldspar in "islands" 484-510 Med greenish grey f.g. GD. Femag veining becoming more frequent-hairline fractures. Rock becomes finer-grained & granophyric approaches aplite texture.	Biotite-dk brown-intense	480-490 26 qv. 490-500 12 qv. 24.0 500-510 13 qv. 486 1" qtz vein with coarse moly & chalco
510	544	Light greenish grey granodiorite aplite 1-3	Light greenish grey fine-grained granophyric aplite. Locally slightly porphyritic. Relationship to above rocks gradational.	Femag-only type present.	Moly mineralization drops markedly in this section. 510-520 12 qv. 520-530 15 qv. 40° 530-540 22 qv. Good WO_3 some chalco.
544	554	Dark greenish grey andesite tuff.	Dark greenish grey to black intermediate tuff. Matrix very f.g.-dark. Fragments <3mm angular, lighter-coloured. Fragmental content variable.	Feldspathization-nil Femag-if present, not as above. Ser-carb not apparent.	540-550 27 qv. 10°, 40° 17.8 550-560 6 qv. chalco present in dry fractures.
554	589	Light grey rhyolite	Light greenish or pinkish grey aphanitic rhyolite, intensely fractured. 544-577 light grey intensely fractured. 577-589 Medium to light greenish gy less fractured. 589 Sharp contact @ 45° ca. ; andesitic tuff.	Feldspathization-minor K-spar (pink) along veins. Ser-carb green 577-589	560-570 33 qv. 10°, 40° 570-580 40 qv. 580-590 28 qv.
589	594	Dark grey andesite tuff.	Dark grey or greenish grey fine grained andesitic tuff. Masive, dense, few fragments (1mm).		590-600 32 qv. 27.8

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594	670	Grey Rhyolite	Light to dark grey aphanitic siliceous rhyolite 594-608 Medium grey, patchy femag alt'n 608-611 Dark grey f.g. tuff. 611-619 Med-gy, many femag veinlets. 619-643 Med grey, dense little femag segregation. 643-648 Scattered blotches of femag. 648-660 Flow banding 40° ca.-med. gy. rhyolite 660-670 Med gy aphanitic rhyolite.		600-610 21 qv. +many tiny veins 610-620 15 620-630 9 630-640 14 640-650 13 10°, 40° 14.4 650-660 4 660-670 13
670	710	Altered rhyolite	Light apple-green to medium grey (unaltered) aphanitic rhyolite. Minor dk gy tuffaceous beds. 670-694 Mainly moderately altered green or greenish-grey rhyolite. Bleaching along veins. 694-707 Intensely altered.	Ser-carb-intense alt'n in sections--vfg. apple green prevasive-strongest along veins-gives "bleached" appearance. Feldspathization locally intense along qtz moly chalco veins.	670-680 11 qv. 40° 680-690 11 690-700 18 40° 11.4 700-710 22 30°
710	780	Medium grey volcanic rk.	Medium grey aphanitic dense volcanic rock-may be flows siliceous-probably rhyolite-closely fractured. 710-724 Med. grey or greenish grey as above. 724-732 Altered volcanic rock-bleached along fractures may be distinct flow-slightly coarser grained. 732-745 Slightly altered medium grey siliceous vol rk. 745-754 Moderately to intensely altered as above. 754-757 Light pinkish grey rhyolite flow or felsite dyke @ 30° ca. This is probably an altered zone 755- 6" magnetite. w. bleaching. 755-756 Quartz vein. 757-780 Light to medium grey aphanitic volcanic rock many closely spaced parallel segregations of femag at 30° ca-flow lines? Weak K-spar alt'n.	Ser-carb-pervasive-slight 710-718-greenish Feldspathization along fractures begins at 724' In places rock completely altered to pink feldspathic mat'l. Veins & veinlets of K-spar & qtz-K-spar moly.	710-720 14 10°, 30° 720-730 25 730-740 31 25° 740-750 24 23.2 750-760 19 760-770 19 25° 770-780 9

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780	960	Grey volcanic yellow (rhyolite?)	Light to dark grey aphanitic volcanic flow. Commonly demonstrate flow-banding. Rarely tuffaceous 786-3" K-spar pyr vein. 818-820 pink feldspathized along many close veins The volcanic rock here is been intensely fractured & veined (qtz, K-spar, carb-ser) and in places appears to be "crushed". Flow banding common-marked by chloritic & siliceous segregations. 894-896 patchy v.f.g. garnet 910-913 " 880+ flow banding - 40° ca. 959-1/8" vein selenite pink, x-als 3/4" long. 959-½" dykelet black v.f.g. chloritic rk.	Feldspathization locally intense bordering veins. Intense closely spaced fracturing-stockwork.	780-790 16 qv 25° ca 790-800 15 qv 15.6 800-810 10 810-820 23 820-830 21 830-840 14 840-850 21 17.8 850-860 25 860-870 15 870-880 24 20°, 10° 880-890 25 890-900 18 21.4 900-910 13 910-920 16 920-930 20 930-940 18 940-950 12 15.8 950-960 27 20°
960	966	Lamprophyre dyke	Greenish-black very fine-grained equigranular chloritic basalt (?) dyke. Sharp contact @ 960 - 75° ca. Volcanic rk at contact sheared & altered. Contact @ 366 irregular-much chloritic material. Magnetic.		960-970 33 The majority of quartz veins to this point in the hole are mineralized with MoS_2.
966	1017	Medium-grey rhyolite.	Medium grey, aphanitic, flow-banded, unaltered, closely fractured rhyolite.	Occasional patches of femag concentration. Rare K-spar veinlets.	970-980 26 20° 980-990 23 990-1000 21 26.0 1000-1010 21 1010-1020 34

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1176	1450	Grey volcanic rock	Light to dark grey occasionally flow banded, aphanitic closely fractured rhyolite and andesite. 1176-1198 dark grey tuffaceous andesite magnetic. 1198-1249 Light to medium grey flow banded rhyolite. flow banding 30° ca. 1249-1286 As above but K-spar veinlets & bleaching more abundant. 1286-1320 Medium grey aphanitic flow banded rhyolite. Relatively unaltered. 1320 Flow banding 05° ca. 1320-1362 Pinkish-grey rock as above-intense veining close narrow veins with pink K-spar. 1362-1413 Medium-grey intensely fractured volcanic rk. 1413-1432 Greenish & pinkish grey flow banded rhyolite. 1432-1450 Pinkish grey flow banded rhyolite Flow-banding 25° ca.	Sections of the rhyolite are either a more leucocratic rocks or are bleached. Many close thin fractures contain pink K-spar scattered pyrite-chlorite veins. 1244-1249 Ser-carb, alt'n, pervasive, apple green. 1258-1267 As above 1413-1432 Slight to moderate ser-carb alt'n & K-spar 1432-Feldspathization becomes more intense from this point. K-spar in tiny veinlets. Patches up to 8" light pink due to intense feldspathization.	1180-1190 30 qv. 30° 1190-1200 25 26.8 1200-1210 19 1210-1220 18 1220-1230 20 1230-1240 31 1240-1250 20 21.6 1250-1260 25 1260-1270 36 1270-1280 20 30° 1280-1290 18 1290-1300 32 26.2 1300-1310 21 1310-1320 24 1320-1330 17 1330-1340 20 1340-1350 15 19.4 1350-1360 15 1360-1370 10 1370-1380 18 1380-1390 17 1390-1400 14 14.8 1400-1410 26 1410-1420 20 1420-1430 14 1430-1440 16 35° 1440-1450 17 18.6 1450-1460 26 1460-1470 16 e" lost core
1450	1468	Intensely altered rhyolite.	Light salmon coloured intensely fedlspathized rhyolite Relict flow-banding-no other texture apparent. 1450-1453 Pinkish grey moderately altered rhyolite. 1453-1454 Salmon coloured intensely alt'd. 1454-1460 Pinkish grey as above. 1460-1468 Salmon coloured intensely altered.		

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1450	1521	Medium grey siliceous tuff	Medium grey, fine grained flow-banded siliceous tuff. Unaltered-MoS_2 content apparently much lower than all preceding sections of hole. Flow-banding 20°	Slight Feldspathization from 1450-1485	1505 ½" qtz-fluorite mag pyrite vein. 1470-1480 18 — 1500-1510 19 1480-1490 16 — 1510-1520 17 1490-1500 17 — 18.6
1520	1545	Greenish grey tuff	Greenish grey light to dark fine to coarse grained ill-sorted fragmental rock-irregular chortic & crystal fragments ∠ 4mm.	Garnet-epidote minor patches. Feldspathization locally intense.	1520-1530 13 1530-1540 7 — 1588' 1540-1550 14 — 14.0 qtz fluorite 1550-1560 17 — vein ∠ ½" 40° 1560-1570 24
1545	1606	Grey siliceous tuff	Medium grey siliceous tuff as above-less flow-banding. Minor beds of greenish fragmented (see above). 1579-1580 greenish frag. 1601-1606 "		1570-1580 14 1580-1590 15 1590-1600 14 — 16.8 1600-1610 20 1610-1620 18 1620-1630 19
1606	1625	Lamprophyre dyke	Black or greenish black f.g. lamprophyre-sharp contacts with volcanics@ 40° ca. 1619-1620 Med. grey volc. - inclusion?	Weak epidote on fractures	
1625	1636	Light greenish-grey fragmental	As above.	Minor garnet-epi blebs.	1630-1640 14
1636	1679	Grey siliceous tuff	Medium grey f.g. siliceous tuff. 1677-1679 lamprophyre @ 40° Fracturing increases toward 1677		1640-1650 14 — 17.0 1650-1660 25 1660-1670 25 1670-1680 20 1680-1690 28
1679	1696	Altered tuff	Greenish grey to white intensely altered tuff. 1679-1682 Greenish-white to grey "bleached" tuff. 1682-1695 Greenish grey, intensely fractured crystal tuff. 1695-1696 Breccia-volcanic? fragments ∠ 1" in greenish black chlorite matrix.		1690-1700 19 — 23.4

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1696	1705	Altered tuff	1696-1699 Bleached tuff-light greenish white 1699-1700 Sheared & broken rk-qtz & femag veins. 1700-1702 Light grey fg. tuff & bleached fragmental 1701.5-Lamprophyre dykelet 6" @ 30° ca. 1702-1705-Light - med. grey fg crystal tuff & bleached tuff.	Ser-carb moderate Femag veinlets chloritic	1700-1710 18 q v @ 30°
1705	1707	Diorite	Sharp contact 15° ca. Med. gy. f.g. equigranular diorite.		
1707	1732	Medium grey tuff	Mainly medium grey fine-grained dense tuff. 1707-1710 Greenish-grey tuff-ser carb. 1710-1712 Lamp @ 30° ca - sharp contact. 1712-1732 Med. gy tuff 1717-1718, 1722 Sheared zone-breccia? 2mm f-sp frags in femag matrix.		1710-1720 22 1720-1730 21
1732	1746	Sperulitic rhyolite tuft	Light grey, fine-grained rhyolite or rhyolite tuff. may be welded tuff. Fine-grained avoid fragments or concretions in white aphanitic matrix. Contact with above rocks sharp at 35° ca.		1730-1740 19 1740-1750 23 20.6 1750-1760 11
1746	1759	Lamprophyre Dyke	Contact 75° ca.		
1759	1789	Grey tuff	Light to medium grey fine-grained crystal tuff. Minor testicular tuff & bleached zones ; femag veining.		1760-1770 28 qv. MoS_2 good 1770-1780 20 1780-1790 17
1789	1804	Dark grey crystal tuff	Dark grey fine-grained (some m.g. fracs) crystal tuff Fragment mainly white feldspar.		1790-1800 28 30° 20.8 1800-1810 13

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1804	1876	Grey crystal tuff	Medium to dark grey crystal tuff as above. Minor aphanitic sections. Occasional coarse fragments < 1 cm. Amygdaloidal texture in lower part of section.	Gar-epi blebs occasional in amygdules.	1810-1820 14 qv 1820-1830 27 1830-1840 23 1840-1850 23 1850-60 23 1860-70 23 1870-1880 25 20.0
1876	1888	Dark brown tuff	Dark brown, very fine-grained, biotite-rich tuff.		1880-1890 21
1888	1925	Grey crystal tuff	Mainly dark grey crystal tuff as before. Amygdules absent.		1890=1900 10 1900-1910 15 1910-1920 14 20.4
1925	1963	Dark grey tuff	Mainly dark grey, fine-grained tuff-no larger crystal fragments present-sometimes aphanitic.		1920-1930 27 1930-1940 36 1940-1950 15 21.4
1963	1971	Grey crystal tuff	Dark grey fine-grained (minor m.g. frags) crystal tuff ; white feldspar crystal frags as before.		1950-1960 17 1960-1970 25
1971	1995	Lapilli tuff	Medium grey or greenish grey lapilli tuff. Matrix fine-grained tuffaceous. Fragments fine to coarse-grained- lithic frags.		1970-1980 16 fair MoS_2 1980-1990 16 1990-2000 18 18.4
1995	2134	Dark grey crystal tuff	Light to dark grey fine-grained crystal tuff as above. 1995-2006 Bleached-femag veins. Along sections of dense, dark, very fine-grained tuff. Minor siliceous or rhyolitic flows.	Ser-carb halo Essentially no Type II veins from 2100 to contact @ 2370-if type II, they are hairline width and not obvious. 2100-2110 15 2110-2120 28 2120-2130 24	1996 banded qtz-moly vein 30° 2½" 2000-2010 15 2010-2020 25 2020-2030 22 2030-2040 15 2040-2050 18 19.0 2050-2060 19 Fluorite @ 2051 2060-2070 14 2070-2080 22 2080-2090 13 Fluorite @ 2100 @10-25° 2090-2100 13 16.2

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
2134	2182	Bleached tuff	Rock as above but strongly bleached. Femag remains only in blotches. Many thinfemag veinlets. Light grey to greenish grey rock-frags still visible.	K-spar along veinlets Epidote veinlets & blebs (yellow-green)	2130-2140 14 2140-2150 14 19.0 2150-2160 16 2160-2170 7 3' lost core 2170-2180 6
2182	2287	Dark grey crystal tuff	As before-no bleaching. 2194-2197 rhyolite flow sharp contact 40° ca. 2203-2206 - do	Epidote along fractures yellowish also epi-garnet blebs.	2180-2190 15 2190-2200 13 12.0 2200-2210 11 2210-2220 10 abundant pyrrhotite 2220-2230 11
2287	2289	Altered Rock	Intense garnet-epidote alt'n-brecciated volcanic-probably marks top of flow.	Intense garnet-epidote blebs-green & red.	2230-2240 10 — fair chalco pyrrotite 2240-2250 20 12.2 2250-2260 18 20°
2289	2370	Grey andesite	Mainly dark grey fine-grained tuffaceous andesite Minor sections of crystal tuff as above-diss. magnetite. Minor sections show flow-banding. 2294 flow-banding 45° ca. 2299 flow-banding 05° oa.	2314 Intense pink K-spar. Intense bleaching common along some pyrite veinlets. sericite & K-spar? rare carbonate veinlets.	2260-2270 19 — fair moly. 2270-2280 17 2280-2290 9 2290=2300 11 14.8 2300-2310 17 2304-½" vein pyrrotite 20° ca. 2310-2320 19 2320-2330 10
2370	2428	Contact 30° ca.	Contact between volcanic rk & quartz feldspar porphyry. Contact sharp & regular. marked by 1½" zone of hydrothermal mineralization-abundant coarse grained crystalline fluorite-disseminated moly & chalco-abundant qtz & K-spar-minor pyr & epidote Banded texture in contact zone-bands of qtz, K-spar, hydrothermal minerals.		2330-2340 10 2340-2350 12 13.6 2350-2360 22 30° ca. 2360-2370 19

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2370	2428	Quartz-feldspar porphyry	Light pink, pinkish or greenish grey or green quartz feldspar porphyry. 2370-2377 Pink porphyritic granite-apparently same as bottom of ddh 28. Phenocrysts of quartz pink feldspar and white feldspar in a fine-grained granitic matrix. Comp. Magnetite 5% Fluorite-accessor Green mica hls 10% Pyrite " Quartz 25% GRANITE Pink K-spar 30% White albite? 30% Phenos up to ¼", subhedral to anhedral. Slightly more femag near volcanic contact. 2372-FELSITE dyke-30° ca.-sharp regular contact pink, aphanitic-4" wide.		2370-2380 1q v @ 30° ca. qtz II 2380-2390 - 0
q					Rare veins & veinlets of: chlorite-sericite-pyrite chalco moly
			2377-2395 Light grey quartz feldspar porphyry. Texture as above, but less K-spar. 2377-78, 2380-81, 2382-84, 2386, 2394-95 light greenish grey, fine grained equigranular granitic rock-graphic texture fairly well developed. Contacts ; porphyry gradational over ½".	Occasional patches of K-spar & fluorite with pyrite, moly, & chalco.-patches up to 1½" diam.	2390-2400 1 8.6 2398-¼" qtz-fluor-fsp-py-mag. 30°II
			2395-2420 Pinkish-grey quartz feldspar porphyry As above but more pink K-spar.	Fluorite (purple or pinkish) on fracture planes.	2400-2410 0 2410-2420 0
			2420-2428 Pink qtz f-spar porphyry.	Patchy K-spar & fluorite	2424-½" gypsum-fluorite vein. 2420-2430 0

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DETAILED GEOLOGY, DRILL LOG

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2428	2526	Quartz feldspar porphyry (as above)	2428-2448 Light grey qtz-f-sp porphyry-as above. less pink K-spar. 2436-37, 2438-39, 2440-42 Light to medium greenish grey, fine-grained equigranular granite rock-dioritic? graphic texture. 2444-2445 Medium grey fine grained graphic GRANODIORITE aplite.	Minor veinlets-K-spar Patches of K-spar fluorite	2430-2440 0 2440-2450 0 0
			2448-2455 Salmon-pink qtz-fspar porphyry pink K-spar abundant-sharp contact 40°ca.	Epidote-alt'n of f-spars.	2450-2460 1 40°ca coarse moly I
			2455-2466 Altered porphyry Apple green-fine-grained rock-where intense or greenish porphyry where less intense.	Carbonate veinlets Intense ser-carb-pervasive Epidotization of f-spars.	2460-2470 0 Carb veinlets 10°ca.
			2466-2484 Medium grey, fine-grained, equigranular DIORITE? as above (dykelets) minor K-sp phenos.	Moderate ser-carb alt'n. pervasive-apple green	2470-2480 0
		Contacts between phases sharp, regular usually 20-30° ca.	2466-2476 Apple green moderately strongly alt'd. Minor sections "normal" porphyry. 2477-2478, 2479-80 Pink-grey porphyry. 2484-2501 mainly pinkish grey to grey porphyry 2486-88, 2495-97 Fine-grained grey, equigranular (slightly porphyritic) diorite.	Carb veinlets.	Carb-veinlets 35° ca. 2480-2490 0 2490-2500 1 0.4 hl-qtz 2490.5 @ 40° 2508 1/16 qz-cp-Ksp-chl-mo-II 40°
			2501-2516 Medium grey or greenish-grey fine-gd diorite (as above). minor sections of porphyry. 2514 pink porphyry. 2516-2519 med gy porphyry 2519-2523 med gy or green f.g. phase 2523-2526 grey porphyry.	Sericite-carb-pervasive green colour Ser-carb weak to strong.	2500-2510 2 2502.5 hl-1/16 qtz-Ksp 55° II femag. 2510-2520 2 2515 hl qtz 30° 2516.5 hl qtz 60° 2520-2530 2 hl 5°

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DETAILED GEOLOGY, DRILL LOG

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2526	2685	Quartz feldspar porphyry (as above) Contacts between phase 30-40° ca. and 2589-70° ca.	2526-2552 Mainly medium grey or green fine-grained weakly porphyritic dioritic rock. 2535-2545 Grey altered porphyry 2547-2550 " 2552-2589 Mainly medium grey or bluish grey quartz f-sp porphyry. As before but less pink K-spar. 2554-5, 2574, 2576, Green f.g. altered phase. 2588-89 Pinkish gy porphyry 2589-2595 Green f.g. phase-altered. 2592-3 Pinkish gy porphyry. 2595-2597 Pink-grey porphyry. 2597-2606 Greenish or grey fg phase 2606-2612 Pinkish porphyry 2608-9 green altered fg rock 2612-2618 Medium greenish grey, slightly altered, fine grained equigranular intermediate rock. Slightly coarser grained than above f.g. phase. 2618-2649 Mainly pinkish grey porphyry-minor altered patches-green-fg. 2624-5, 2426-8, 2638-42, 2643-45 green fg phase 2649-2660 Light pinkish white to light grey porphyry granite 2656-2659 Med. gy f.g. diorite 2660-2673 Mainly f.g. green altered rock 2663-2664-5, 2667-8 2673-2679 Pinkish grey porphyry 2679-2685 Grey f.g.porphyritic rock. Matrix as in above f.g. phases but more phenos.	Sericite green. Patches of pink K-spar, sericite, magnetite & fluorite up to 5" irregular. Occasional minor K-spar veinlets. Garnet(?) f.g. (<1mm) transluscent resen brown crystals surrounded by bleached halo <4mm diam.	2530-2540 6 2531 hl qtz-Mo Type II 30 2540-2550 9 4.2 2543 1/16" qtz K-spar @ 30° type II 2548.5 hl qtz K-spar femag type II @ 30° 2550-2560 5 2560=chalco 2560-2570 4 2570-2580 3 2571 hl qtz femag 45° 2580-2590 2 2585 hl mo II 30° 2590-2600 2 2594 1/8 qtz-mo-cp II 25° 2600-2610 4 2605 1/8" qtz fg Kspar chl @ 60 2610-2620 2 2603.5 1/8qtz-py-II45° 2620-2630 1 2605.5 hl qtz-py_Kspar 25° Type II 2630-2640 3 2640-2650 1 1.0 2650-2660 0 2660-2670 0 2670 1/16 qtz-femag II 30 2670-2680 1 2680-2690 0

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
2685	2904	Quartz-feldspar porphyry as above.	2685-2690 Green, f.g. altn of above phase. 2690-2694 f.g. porph as above. 2694-2703 Pinkish-gy m.g. porph as above. 2698-2701 f.g. green altd rock. 2703-2718 f.g. green phase, minor porph. 2718-2761 Med grey fg porph minor altd sections. 2745-47 Intens. carb-seric altn apple green to greenish yellow. 2755-56 Green-mod ser-carb. 2761-2775 Grey m.g. porph 2775-2796 Med gy f.g. porph-minor green alt'd zones. 2796-2827 Mainly grey m.g. porph. 2817-18 f.g. equigranular phase-minor sections of f.g. porph. 2827-2840 Grey f.g. porph. 2840-2845 m.g. porph. 2845-2852 Green f.g. equigranular phase. 2852-2856 M.g. porph 2856-2867 F.g. med to dk gy porph 2867-2873 M.g. grey porph 2873-2879 F.g. med-grey porph 2879-2901 Mainly med gy m.g. porph. 2881-2, 2889-90 light green f.g. equigranular phase. 2885-7 f.g. grey porph 2901-2904 m. grey f.g. porph.	Seric-mod-intense. Intense ser-carb-several thin (.05mm) carb veinlets All textures obscured Minor K-spar. Intense carb-ser in short sections. Rare ovoid blebs ; bleached rims. Center of blebs garnet & epidote. 2893=Green altered rock ser-carb & small (3mm) ovoid blebs of garnet epidote.	2690-2700 1 qv 0.4 qtz-chl @ 5° ca. 2700-2710 1 2710-2720 1 2720-2730 1 2730-2740 0 2740-2750 0 0.6 2750-2760 0 2760-2770 0 2770-2780 0 2780-2790 0 2790-2800 0 0 2800-2810 0 2810-2820 1 2820-2830 1 2830-2840 2 + chalco 2840-2850 0 0.8 2850-2860 2 2860-2870 1 2870-2880 2 2880-2890 1 1.2 2890-2900 0

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
2904	2925	Altered Quartz-feldspar porphy	Fine and medium grained medium grey phase quartz feldspar porphyry. Sections of intensely altered rock-ser carb - pink K-spar.	Carb ser alt'n-short sections contain pinkish, buff or apple green haloes around narrows (< 1/16") carbonate veins. Textures of porphyry not apparent where intensely altered. K-spar salmon pink, pervasive along veinlets of K-sp-chl & in 2" ovoid patches.	2900-2910 1 2910-2920 1 py veinlets in alt K-sp 2920-2930 0
2925	3006	quartz feldspar porphyry	As before. 2925-2970 Medium grey fine to medium grained porphyry. 2942-44 Light green, fine-grained rock-altered? 2958-2963 Greenish-grey f.g. phase 2969-70 " 2970-2992 Mainly equigranular or only slightly porphyritic fine to medium grained rock. Of qtz monzonite comp'n. Medium grey. Minor sections of f.g. phases & mg porphyry. 2992-3006 Mainly med. grey f.g. porphyry.		2930-2940 0 0.4 2940-2950 0 chalco veinlets 2950-2960 0 2960-2970 0 2970-2980 0 2980-2990 0 2990-3000 2 0.4 3000-3006 0
3006		end of hole			

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
0	30.5	Greenish gry to green grey aplite 6-3/6-6	Mostly greenish grey to green grey granodiorite. aplite. Rock is composed of more equant qtz feld. Femag primarily finely divided chlorite.	Some femag veining. A few garnetiferous ± epidote clots to 1"	MoS_2 weak 0-10 - 5 10-20 - 10 20-30 = 16 30-40 - 12 40-50 - 19 50-60 - 16
30.5	44	Greenish grey to green grey porphyritic granodiorite aplite 6-5	Greenish grey to green grey porphyritic granodiorite aplite. Decidedly porph. with up to 20% anhedral to subhedral feld to 1/8" in f.g. aplitic fabric. 5" f.g. sug dioritic phase (6-7) @ 30-40°/ca @ 32' 7" f.g. 6-7 @ undetermined attitude @ 38 6" " " " 40 5" " " @ 50°/ca @ 41 6" " " @ undetermined att. @ 43.5'	Femag clotting-veining Some garnetiferous spots to 3/4 Ø. Locally get alt. of feld	1" cg qtz with some mg-MoS_2 @ 30-40 @ 35' MoS_2 weak.
44	59	Greenish grey grano. aplite 6-3/6-6	Mostly greenish grey granodiorite aplite. 6-3/6-6. Locally get good porphyritic phase-vis 45.5-46.5.	Some femag veining. Irreg. bleaching.	MoS_2 weak.
59	97	Grey-greenish grey aplite 6-3. Locally porph.	Sharp contact @ 59 @ 60-70°/ca into rock with much lighter colour tone. Mostly grey-greenish grey granodiorite aplite consisting of equant interlocking grains. Locally this rock is porphyritic (64-70) with some anhedral qtz to 2mm, and subhedral feld to 3mm. Some browner (biotitic) overtones 95-97.	Leuco phases may be "bleached". Some garnet ferous ± epidote clots to 2" vein 63'.	MoS_2 very weak. 1½" f.g.-qtz MoS_2 & some carb's Dark gouge @ 70-80° @ 70' set of hl-1/16 qtz MoS_2 @ 30 5" c.g. qtz & sparse chl pyr @ 30° 91'
97	106	Green grey normal grando. 6-6.	Colour tone darkens-most of texture is clouded to obscured. Rock is mostly green grey granodiorite aplite or f.g. granodiorite.	Some femag veining.	Weak MoS_2 60-70 = 12 70-80 = 9 80-90 = 15 90-100 = 11 100-110 = 10 110-116 = 11

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
106	116	Green grey to greenish grey porp. gran. aplite 6-5	Mostly greenish grey to green grey porph. granodiorite aplite. Up to 20% anhedral qtz to 2mm and feld to 3mm in v.f.g. qtz feld fabric. Fabric is locally weakly granophyric.	Some femag veins. Locally gets salmon pink altn of feld adjacent to some veins.	Weak MoS_2 110-120 = 17 120-130 = 10 130-140 = 9 140-150 = 21 150-160 = 21
116	168	Greenish grey green grey grano. aplite-6-6/6-5	Mostly greenish grey to green grey granodiorite aplite to f.g. granodiorite. Locally (mostly in more leucocratic phases) porphyritic as above. Whole run is probably porph, but much of texture of fabric is clouded.	As above.	MoS_2 weak. Improved 160-170 -- here gets set of banded veins to ½" @ 30°/ca 160-170 = 19 170-173 = 3
168	171	Diabase?? Dyke??	Dark green f.g. relatively equigranular. Distribution of femag gives salt & pepper appearance. Sharp contacts-partic. @ 171 with marked textured change in wall rocks.		
171	229	Mostly light greenish grey granodiorite aplite locally weakly porph 6-3. Some femag blocks.	Mostly light greenish grey granodiorite aplite-locally weakly porphyritic(qtz-feld). Some intermixed zones of femag with matl "BLOCK ZONE"?? as follows: 174-f.g. equigranular similar to 168-171 above. irreg. contacts. 175 - as above 12" contact irreg @ 20/ca. 179-182 green fine grd as above but colour tone lightens. Some feld phenos. Contacts sharp @ 60-80°/ca. 186-190 green to dark green as above. Irreg contact av. 70-80°/ca. 193-194 as above. Irreg contacts @ 20-40°/ca. 195-196, 201, 203-204, 207-208	Possible "BLOCK ZONE" Some femag veining. Strong carb ser halo adjacent to 1" carb cemented breccia @ 70-80? @ 185	MoS_2 weak with exception of near 184-185. At 185 gets 1" mg-qtz,mag MoS_2 @ 70°. ¼-3/8" f.g. qtz MoS_2 @ 20° @ 184. Some pyr-Cu veins.

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171	229	(con't)	210-212 - f.g dark brown as above. Biotitic block. This is magnetic. 216 Dark green f.g. equigranular diabase. 218-As above. 220-As Above. 222-225- Mixeddark green, dark brown f.g. "diabase" and 6-3. Contacts sharp but irreg. Typical of "block zones" in drift.		Vein count 170-180 = 14 180-190 = 10 190-200 = 23 200-210 = 23 210-220 = 15 220-230 = 18
229	290	Greenish grey to green grey grano. aplite 6-3. Locally porph. Possible "Block Zone" 229-250.	Mostly greenish grey to green grey granodiorite aplite. Locally porphyritic (anhedral qtz subhedral feld to 2mm). Fabric (where obvious in more leucocratic phases) is v.f.g. interlocking with local incipient granophyre. Femag "blocks" of material reseinds by its diabase 168-171 are present throughout run. Many have sharp but irregular contacts. Distribution as follows: 229-230 Much in interval 235-240, 243, 244-246 - 248-250 more biotitic	Femag clotting & veining Strong carb-ser alt. adjacent to 3/4" qtz-carb. MoS_2 vein @ 50°/ca @ 247'	3/4" c.g. qtz, carb, chl @ 30-40 @ 283. 1/16" thick MoS_2 @ 10-20 @ 275 230-240 = 23 250 = 20 260 = 30 270 = 31 280 = 26 284 = 15
290	305	Dk green grey, brown grey 6-6/6-5	Texturely this rock is similar to previous run, however much more f.g. femag is present. Subhedral feld phenos to 3mm are apparently throughout, the vein f.g. weakly granophyric nature of the granodiorite is apparent in the more leucocratic phases.	Minor bleaching.	Good WO_3 300-339 MoS_2 weak best 284-290 = 24 set @ 20-40°/ca 300 = 17 310 = 27 320 = 37 330 = 30 340 = 25

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305	331	Light greenish grey aplite-altered 6-3	Mostly light to greenish grey to light brownish grey aplite. Rock is weakly porph. (feld to 2mm) throughout. Some olive green alt adjac. to carb veins.	Irreg bleaching, femag streaking, strong to mod carb ser alt. adjac to carb veins @ 319 (1/8" carb @ 45°, 323 (¼" carb @ 50°), 328 (2 only 1/8" carb @ 45°	1/8" m.g. qtz MoS_2 pyr @ 40° @ 306 cut by 1/8" fg qtz-MoS_2 @ 60°. 1¼" mg qtz ; dissem m.g. MoS_2 @ 20° @ 322. Cut by ¼" carb @ 50° @ 323 3/8" mg-qtz, some MoS_2 @ 20-30 @ 324 1" m.g. qtz, some thick mg MoS_2 @ 10-20 @ 325. Best set MoS_2 @ 10-30°/ca.
331	355	Mixed greenish grey, brownish grey 6-3.	Mixed greenish grey, brownish-grey f.g. aplite. Much of texture is clouded partic. to 346. Locally rock is weakly porphyritic (feld to 2mm). Rock is weakly granophyric throughout. In more leucocratic areas, f.g. equaint interlocking qtz-feld common.	Irreg. bleaching, minor femag clotting. Some arg. of feld. Mod. carb ser-alt adjacent to carb veinlets @ 340 (¼" @ 60-70°), 348 (1/16" @ 40°), 352 (1/8" @ 70-80°)	MoS_2 weak. A few qtz MoS_2 @ 20-30 and 60°/ca. WO_3 weaker, but still anomolous.
355	378	Light cream to buff grey f.g. aplite 1-3	Mostly light cream to buff grey f.g.aplite. Weakly granophyric throughout. Rock is also weakly to mod. porphyritic (anhedral to subhedral feld to 2mm).	Feld. argillized. Some m.g. c.g. clots of brown biotite, sericite or muscovite, pyr, minor Cu to 1" Ø-particularly 362.	MoS_2 weak but improved. Some v.f.g. dissem. MoS_2 in arg'd feldspathized zones. WO_3 weak but anomolous. Best set MoS_2 @ 20-40°/ca Marked increase in veins intensity almost high silica near 378.
378	396	Dk green grey-brown grey porph. grano-aplite 6-5	Abrupt darkening in colour tone. White "phenos" ((anhedral to subhedral feld to 3mm) accentuated by the dark femag rich f.g. fabric. Some "phenos" are very fine grd weakly granophyric intergrowths of qtz & feld. Where bleached-rock is the same as previous some feld phenos are v.f.g. weakly granophyric.	Some bleaching in vein haloes. Colour tone lightens near 396. Much SiO_2 392-396.	MoS_2 weak, WO_3 weakens. Vein count 340-350 = 24 370-380 - 106 350-360 = 32 380-390 = 94 360-370 = 71 390-396 = 27 incl 2' of SiO_2

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
396	451	Mostly varied colour weak to mod porphritic v.f.g. granodiorite aplite 1-5/6-5	Colour tone vary throughout run. Rock is mod. porph v.f.g.-granophyric-graphophyric granodiorite aplite. In "bleached" areas-rock is a good 1-5, however in femag rich zones (here porph texture is accentuated by the light phenos in the dark fabric) the rock is a 6-5. Leucocratic phase (grey, greenish grey brownish grey) alternates with dark green-dark brown melanocratic phases. A given colour tone seldom persits for more than 2'.	Mod-strong carb-ser alt-adjac to carb veins @ 400 (HL carb @ 60°) 404 (1/8-¼" carb @ 50-60°). 410.5 (1/8" carb, MoS_2 @ 90°) 425-426 (random to 1/8" mostly @ 70-90 & 45/ca) are leuco phases "bleached" certainly some leuco produced in vein halos etc-a few small garnetiferous clots to ½"Ø.	MoS_2 weak. Best veins @ 40-60°ca. WO_3 weaker. Vein count 396- 400 = 16 410 = 77 420 = 98 430 = 80 440 = 63 450 = 57 451 = 11 MoS_2 veins generally cut "barren" veins--but some "barren" vein have WO_3.
451	467	Green grey to dark green grey weak-mod porph. f.g. granodiorite aplite 6-5 6" lamp dike @ 465	As above, but melanocratic phases predominate. 6" f.g. dark green-black mag lamp dike? @ 465. Contact sharp but irreg. approximates 50-60°/ca.	Mod. carb-seric. 462 - 467--in this interval get a few hl-1/16 carb veinlets--most @ 40-60°/ca	MoS_2 weak, WO_3 weak. Vein count: 451-460 = 49 490-500 = 110 460-470 = 80 500-507 = 38 470-480 = 112 one 12" vein. 480-490 = 135
451	494	Cream-buff grey aplite-slightly porph. 1-2/1-5	Mostly cream to buff grey aplite. Rock is mostly weakly granophyric. Locally weakly porph banded qtz. feld to 1"	Weak arg. of feld.	MoS_2 appears slightly improved but suspect this is only apparent due to light colour of rock. WO_3 markedly weaker. Best MoS_2 sets @ 20-50 and 60-80°/ca
494	507	Greenish grey-olive grey. Alters 1-2/1-5 Carb green = 498.	Rock type as above-pervasive mod. carb-ser alt imparts colouration.	Pervasive mod carb seric alt in numerous small carb veins @ 30-50°/ca Lt blk, c.g. carb in 60	12" qtz & sparce MoS_2, pyr chl @ 30@ 500503.5

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
507	516	Light olive-grey porph aplite 1-2/ 1-5	As above. Some phases resemble altered (carb-ser) phase 5. Anhedral qtz & subhed feld 1 to 2 mm.	Mod pervasive carb-ser. Several HL -1/16" carb veinlets @ 40°/ca	MoS_2 weak best set at 30-40° WO_3 sparce. Marked decrease in WO_3 beyond 467.
516	528	Greenish grey-dark green grey porph. Granodiorite aplite 6-3/6-5	Mostly greenish grey to dark green grey granodiorite aplite. Anhedral to subhedral feld to 2mm set in vein weakly granophyric fabric of interlocking qtz-feld Textures largely obscurred in more femag rich phases.	Irreg. bleaching. Strong f.g. qtz veining & mod carb-ser alt near 526. Obscure texture.	MoS_2 weak as above.
528	543	Cream grey f.g. aplite 1-2 slightly porph.	Mostly light cream-grey f.g. aplite--fabric of more equant interlocking grains. Locally weakly porphritic. Weakly granophyric. *Adjacent to some qtz veining--get a marked foliation produced in aplite--v.b. 535, 545,--here get qtz's feld stretched out to give a micro-gneissic texture. Thin section @ 535. Apparently there has been some recrystallization & redistribution under conditions of dynamic metamorphism (?) In places gives incipient "flow banding."	Weak irreg. carb-ser alt. imparts greasy green colouration.	MoS_2 weak, WO_3 weak. Best MoS_2 set @ 30-40°/ca ½" qtz, thick mg MoS_2 @ 40° @ 538 1/8" as above @ 40° @ 540.5
543	561	Greenish grey weak mod porph granodiorite aplite 6-3/6-5	Mostly greenish grey (some spots of green grey) weak mod porphyritic granodiorite aplite. Weakly granophyric throughout. In places some leucocratic phases resemble phase 5. Possible fault or strong carb @ 553.	Irreg weak to mod carb-ser alt. Strong carb-ser rock "mashed" near 553.	MoS_2, WO_3 weak Vein count 507-510 = 28; 520 = 65; 530 = 75; 540 = 133; several to 6" 550 = 83; 560 = 124; 561 = 31

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561	589	Greenish grey granodiorite aplite 6-3	Mostly greenish grey grnodiorite aplite. Weakly granophyric, weakly porphyritic (anhedral feld to 2mm). Locally texture is clouded by alt. Some garnetiferous clots near 569.	Some femag clotting. Locally get salmon buff feldspathization--some of this has f.g. dissem MoS_2 Weak carb-ser alt throughout.	Weak MoS_2--best set @ 10-35°/ca 561-570 = 99 600-610 = 123 570-580 = 95 610-617 = 80 580-590 = 115 590-600 = 116 Intense veining.
589	610	Light greenish cream grey f.g. granophyric aplite weakly porph 1-1/1-5 "Lamp Dykes" 591-592, 602-606	Mostly light greenish grey f.g. granophyric aplite. Locally weakly porph (feld). Cut by f.g. dark green to black lamp dikes--weak to mod magnetic. Contact @ 591 sharp @ 40?. Contact @ 592 sharp but cut up by several qtz veins. Contact @ 602 irreg @ high ± to CA. Sharp @ 45° @ 606.	Intense lacing & small qtz veins @ 60-80° from 606-608--qtz feld in aplitic fabric streaked out in with defered. Foliation-almost a pseudo "flow banding" in places.	MoS_2 improved. Best set @ 10-30°/ca 3/8" f.g. qtz MoS_2 @ 30° @ 589 3/8" m.g. qtz, MoS_2-pyr-cu @ 20 @592 ¼" f.g. qtz-MoS_2 @ 25° @ 600.5 cut by barren qtz vein @ 20°
610	633	Light greenish grey aplite weakly granophyric, weakly porph. 1-2/1-3	Mostly light greenish grey aplite. Weakly granophyric weakly porphyritic. Some areas of darker green colour tone. Texture becomes clouded by alt. 617-633.	Weak to mod carb-ser. irreg distributed--more intense 617-633	MoS_2 weak. Two good veins near 612.5. ½" f.g. qtz MoS_2 @ 20° @ 612.5 ¼" m.g. qtz-MoS_2 @ 20° @ 613
633	636	Dark green black f.g. "Lamp" Dike	Dark green to black f.g. "lamp" dike. Contacts sharp but irreg @ 10-30°/ca.	Weak to mod carb sericite. Some patches of feldspathization--in these get some dissem chalco, and rarely f.g. MoS_2.	MoS_2 weak, WO_3 weak--best veins @ 0-30°/ca. 1/8" mg qtz-MoS_2 pyr @ 45° @ 644. 1/8-¼" fg qtz-MoS_2 pyr @ 0° @ 646. Vein count: 617-620= 49 660-670 = 142 620-630 = 157 670-672 = 42 630-640 = 126 640-650 = 117 many of these are 650-660 = 126 large (up to 1")
636	672	Altered strongly veined green grey 6-3 Aplite	Mostly strongly veined, altered green grey granodiorite aplite. Textures largely clouded--where apparent is f.g. weak to non granophyric, weakly porphyritic.		

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DETAILED GEOLOGY, DRILL LOG

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672	696	Light greenish grey alt. intensely veined aplite?? "Lamp" dikes 680-681, 684-686 CONTACT Q.P. Rocks highly altered be contact. of Q.P.	Mostly light greenish grey altered (carb-ser) intensely veined aplite? Much of texture is obscured by alt. in places rock appears aphanitic with hints of f.g. granularity. Some f.g. aplite observed at 688. "Lamp"dikes-f.g. dark green-black, weak to none magnetic. Sharp but irreg contacts @ 680, 681, 684, 686--these have been chopped up by intense veining. and replaced by SiO_2 working back from 810-696 could be contact of Q.P.	Weak mod pervasive carb-ser. Wipes out most of texture. q	WO_3 improved (partic. 685-690, 710-720) but weak. MoS_2 veining weak. Intense veining. Vein Count (many coalesce & can't count accurately) 672-680 = 160 700-710 = 194 690 = 189 720 = 231 700 = 210 728 = 87 * Much of rock high silica-veins merge.
696	702	Mixed flesh, and buff green grey aphanitic rock--possible dike related to Q.P.?? Intense veining.	Mostly flesh with intermixed buff green grey aphanitic rock. Numerous small wormy qtz veins (although these not restricted to this unit). Hints of pin point qtz grains in rare instances. This may be altered aplitic vxs, but colour tone is suggestive of dikes related to Q/P	Weak to mod carb-ser.	MoS_2, WO_3 weak. Intense barren veining @ diverse attitutdes.
702	728	Strongly veined light greenish grey aplite 1-1/1-3 & chilled Q.P. *POSSIBLE BRECCIA??	Rock is intensely veined--much of original rock in small relicts bounded by SiO_2. Can locally see very f.g. aplite-weakly granophyric, but most is aphanitic and probably chilled quartz-porph.	Weak to mod carb-ser alt--not as intense as previous runs. Some flesh to salmon pink alt (feld?) to 711--this could cast some doubt on 696-702 being dike.	MoS_2 weak-WO_3 slightly improved 710-720. MoS_2 weak. "Barren" qtz veining intense.
728	789	Light greenish grey intensely veined replaced Q.P.??	Mostly light greenish grey intensely veining and replaced (SiO_2) aphanitic to f.g. QP. Much of texture is obscurred--relicts in vein & replacement SiO_2. In some get development of micrgneiss qtz & feld reorganized in folia to give an incipient flow banding.	Weak to mod carb-ser pervasive in relicts.	MoS_2 weak best set of qtz & sparce MoS_2 @0°-35°/ca. These range up to ½". WO_3 weak. "Barren" qtz veining intense. Vein count: 728-730 = 48 750-760 = ∞ 740 = ∞ 770 = ∞ 750 = ∞ 780 = ∞

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
789	810	Intensely veined light greenish grey aphanitic rock. Possibly chilled Q.P.??	Mostly intensely veined light greenish cream aphanitic rock--some areas show incipient very f.g. fabric with hints of tiny graphic intergrowth. This rock gradational into Q.P. near 810 so could be a chilled phase although pheno are not abundant--a few pin point anhedral qtz, and odd altered (ser) feld to 2mm. Intense "barren" qtz veining and replacement rock ralicts often completely bounded by SiO_2.	Weak to mod pervasive carb ser. Some arg. of feld Strong arg @ 802-get some dissem v.f.g. MoS_2 in this altered mat'l adjacent to ½" massive pyr @ 20°/ca	Weak MoS . Weak WO_3? Intense "barren" veining
810	842	Intensely veined light greenish cream qtz-porph.	As above, but some decided qtz-pheno to 2-3mm. "Flow banded" contorted qtz veins become more common. However, the fabric of this rock where granular hints incipient very f.g. graphic intergrowth in places. Almost completely silic 830-842 just a few relicts in SiO_2.	As above.	As above.
846	861	As above Q.P. CONTACT Q.P.	As above. Some contorted "flow banded" lenses and veinlets of qtz. BUT locally fabric is not aphanitic--is very f.g. granular with decided incipient graphic intergrowths between qtz and feld. These phases difficult to tell from rock interpreted as altered.	Weak to mod. carb-ser. Minor arg. of feld.	As above. WO_3 almost absent-- of interest-WO_3 picks up abruptly beyond 861.
861	898	Highly veined, replaced ?(SiO_2) altered. Granodiorite.?	Rock is highly veined and replaced with SiO_2 only isolated relict-in higher silica rock. Most of these are interpreted as highly altered granodiorite relicts. However, a few could be altered QP?-bleached grano. Colour tone of relicts changes to dark green.	Weak to mod carb ser alt. Apple green spots 2-3mm. could be sericitized feld phenos in granddioritic.	MoS_2 weak. WO_3 weak, but markedly improved.

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
898	922	Highly silic, veined granodiorite 6-3	Highly silic & veined granodiorite. Relicts are no more obviously green grey granodiorite although texture is still slightly clouded. Some light buff cream relicts are also present--these are interpreted as bleached granodiorite.	Weak carb-ser.	MoS_2 weak. WO_3 weak. Intense qtz veining & silic.
922	953	Vein Intensity sharply reduced. Green grey granodiorite aplite 6-3 Possible dike of QP. 949-950.5	Vein intensity and amount of silica replacement sharply reduced. Rock is now obviously a f.g. granodiorite aplite. Becomes porphyritic near 953 (feld anhedra 2-3mm). Buff-salmon aphanitic rock 949-950.5--could be an altered Q.P. dike. Much dissem. mag. in aplitic r x.	Pervasive weak to mod carb-ser. Much dissem mag. Some epidote, and pink feldspathization.	MoS_2 weak. WO_3 weak. Barren veining strong, but much reduced in intensity. 930-940 = 152 still some large vein to 940-950 = 172 6" 950-953 = 57
953	1011	Strongly veined green grey, brown grey porphyritic granodiorite aplite 6-5	Mostly greenish to brownish grey porphyritic aplite. Subhedral feld 2-3mm set in f.g. to v.f.g., weakly granophyric fabric. Texture of fabric is clouded in darker, more femag rich phases.	Irreg bleaching throughout. Weak carb-ser. MoS_2 cuts most of barren veining.	MoS_2 improved, partic 953-975. Best set @ 10-30°/ca. Secondary set @ 60-90°/ca. ½" m.g. qtz-MoS_2 @ 25° @ 964. Vein Count: 953-960 = 113 980-990 = 110 960-970 = 146 990-1000 = 118 970-980 = 124 1000-1010 = 116 1010-1011 = 24
1011	1066	Brownish grey & overtones of green porphyritic granodiorite aplite 6-5	Mostly brownish grey porphyritic granodiorite aplite. Subhedral feld to 2mm in f.g. weakly to non granophyric fabric. Texture of fabric clouded in darker more femag rich phases--here rock appears to equigranular.	Weak irreg "bleaching"	MoS_2 weak but improved. WO_3 weak. Best sets @ 0-30 & 60-90° ¼" qtz MoS_2 @ 20° @ 1015 1/8-¼" f.g. qtz MoS_2 @ 60° @ 1030.5 1/8" qtz MoS_2 @ 30° @ 1031.5 ½" f.g. banded qtz MoS_2 @ 75° @1041 ¼" qtz-MoS_2 @ 80° @ 1045 MoS_2 cuts most of "barren" veining.

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1011	1066		cont'd.		Vein Count 1011-1020 = 101 1029-1030 = 114 1030-1040 = 81 1040-1050 = 90 1050-1060 = 89 1060-1066 = 63
1066	1120	As above 6-5	As above	As above.	MoS_2 as above but weaker. WO_3 weak. Vein Count (Barren + MoS_2) 1066-1070 = 47 1070-1080 = 80 1080-1090 = 93 1090-1100 = 68 1100-1110 = 71 1110-1120 = 82 3/8" fg qtz MoS_2 @ 30-35 @ 1076.
1120	1156	Mostly brownish grey porph. granodiorite aplite 6-5/6-3	Mostly brownish grey porphyritic granodiorite aplite. Much of texture is clouded, but appears to be mostly up to 20% subhedral feld to 2mm in f.g. non to weakly granophyric qtz-feld fabric. This rock is more altered than previous runs.	Pervasive alt (ser??) clouded texture. Locally (vis 1146) rock appears aphanitic.	Fair MoS_2-possible .1-.2. WO_3 weak. Best MoS_2 in veins to 3/4" @ 10-30° and 60-80°/ca.
1156	1159	Light brownish green-grey aphanitic rock--dike of q.p. or altered phase 6 Carb shear @ 1159.	Mostly light brownish grey with greenish overtones. Rock appears aphanitic--in this are altered dike of Q.P. or altered phase 6. A few small carb veinlets @ 60-70°/ca.--these would favour altered phases.	Possible strong carb-ser alt. assoc. with carb veinlets.	Core broken, up to 3/4" c.g. carb, gouge @ 60-70 @ 1159.
1159	1165	Transition zone from brownish grey 6-5 to f.g. 6-6	1159-1160.5-Mostly green grey with brown overtones--still feld phenos-fabric texture clouded by alt. 1160.5-1161-Dark brown black non mag.-possible lamp dike--contact @ 1160.5 sharp @ 60°/ca. Internally get patches (with gradational contacts) of granodiorite.		

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1159	1165	continued	1161-1162 - light greenish grey f.g.aplite. Some of texture clouded. 1162-1162.5-Sharp contacts - 70-80°/ca @ 1162.5. Dark brown black mag lamp?? 1162-1164.5-Light greenish grey f.g. weakly granophyric aplite. Feld phenos absent, however get a few anhedral qtz grains to 2mm. 1164.5-1165-Dark brownish black f.g. non mag. possible lamp. Sharp contact @ 50°/ca. Internally get areas that look like femag flooded granodiorite.		
1165	1180	Green-grey of various shades of fg. granodiorite aplite 6-6	Mostly various shades of green-grey with minor brownish overtones. Rock is f.g. equigranular aplite. Locally weakly granophyric, porphyritic (qtz). Some of femag looks primary (chlor or green biotite). This rock is texturally different from the previous porphyritic granodiorite.	Irreg. local bleaching?	MoS_2 decidedly weaker. WO_3 appears to strengthen. Vein Count: 1120-1130 = 84 1150-1160 = 61 1130-1140 = 81 1160-1170 = 1140-1150 = 75 1170-1176 =
1180	1200.5	Mixed f.g. light grey, greenish grey granophyric aplite. 1-1 and porphyritic phase 5-5.	Intermixed light greenish grey, grey f.g. granophyric aplite 1-1 and porphyritic phase 5-5. These rocks are intimately related, and grade from ore into the others in porphyritic phase (mostly qtz) best developed @ 1189, 1191, 1195.	Locally, weak arg of feld. Some femag clotting and veining.	MoS_2 weak. Sets as above. WO_3 weak but slightly improved.
1200.5	1207	Dk green, green grey 6-3/6-5	Mostly dk green to green grey f.g. granodiorite aplite. Some anhedral to subhedral qtz pheno 1-2mm. Much of run is considered to be femag flooded--however possible "lamp dike " 1200-1201-sharp contact @ 24° @1201.	Locally "bleaching"	MoS_2, WO_3 as above.

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1207	1220	Green grey porphyritic phase 5.	Mostly green grey porphyritic phase 5. 10-20% anhedral to subhedral qtz to 1.5mm and 5-10% " " " feld to ". Set in a very f.g. sug. fabric. Locally grain size of fabric increases and becomes granophyric to graphophyric. IS THIS A PHASE OF Q.P.??? Distribution of femag in this rock gives the hand specimen a much more c.g. appearance.	Some femag veining & streaking.	MoS_2 weak. WO_3 weak.
1220	1231	Dk green granodiorite aplite 6-6/6-5	Colour tone darkens to dark green to black--textures of fabric is obscurred--however do get qtz and feld grains to 1.5mm set in femag flooded fabric--this could still be the porphyritic phase.		As above. Vein count: 1200-1210 = 65; 1176-1180 = 33; 1220 = 52; 1180-1190 = 84; 1230 = 75; 1190-1200 = 89; 1231 = 8
1231	1250	Dk green grey porphyritic (feld) granodiorite aplite 6-5/5-5	Mostly dark green grey porphyritic granodiorite aplite. Up to 15-20% anhedral to subhedral feld to 2mm with a few qtz anhedra to 1.5mm in a v.f.g. sugary to weakly granophyric fabric. Texture best defined in more leucocratic phases.	Weak irreg bleaching Strong carb ser alt adjacent to carb shear (1/8" carb @ 20°) @ 1238	MoS_2 fair partic 1240-1250 ½"-5/8" mg qtz-MoS_2 @ 40° @ 1249
1250	1295	Green grey porphyritic granodiorite aplite 6-5	Colour tone lightens to green grey. Mostly porphyritic granodiorite aplite. Rock is not as strongly porph as previous run. 5-10% qtz & feld anhedra to subhedra to 1.5mm in v.f.g. weakly granophyric matrix.	Minor irreg femag clotting & streaking.	As above. MoS_2 weak. WO_3 weak but improved. Vein Count: 1231-1240 = 44; 1260-1270 = 44; 1250 = 69; 1280 = 65; 1260 = 56; 1280-1286 = 30

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1295	1341	Dk green to dk brown weakly porph grano. aplite 6-5/6-6. Dioritic phase??	Colour tone darkens. Rock is mostly dark green to dark brown (biotitic) weakly porph granodiorite aplite. Texture of fabric is apparent only in a few leucocratic (bleached?) areas (e.g. 1297, 1302, 1305, 1322, 1335). Phenos are predominately anhedral feld to 1.5mm. These constitute up to 5% of rock.	Weak irreg. bleaching.	MoS_2 weak. Vein intensity reduced from 1330 WO_3 weak. Vein Count: 1310-1320 = 1286-1290 = 25 1330 = 67 1300 = 61 1340 = 39 1310 = 40 1341 = 4
1341	1396	Dk green & minor dk brownish green granodiorite aplite dioritic phase 6-6/6-7	Mostly dk green & minor dk brownish green granodiorite aplite. Texture clouded in femag rich areas which predominate. In a few lighter areas (1346, 1349, 1370, 1372, 1376) rock is f.g. aplitic, weak to non porphyritic.	Weak irreg. bleaching.	MoS_2 very weak. WO_3 weak. Vein intensity weak. Vein Count: 1370-1380 = 32 1341-1350 = 50 1390 = 37 1360 = 40 1396 = 24 1370 = 41
1396	1451	Dk green granodiorite aplite 6-6/6-7 dioritic phase.	As above. 3" possible lamp @ 40° @ 1413	As above. Strong carb ser adjacent to carb shear (2 hl 1/16" carb) @ 45° @ 1425. Strong carb ser adjacent to carb shear (2 hl 1/8" @ 45 @ 1406.	MoS_2 very weak. WO_3 Vein intensity weak. 1396-1400 = 17 1420 - 1430 = 33 1400-1410 = 44 1440 - 56 1410-1420 = 34 1450 - 30 1451 - 8 1½" weakly banded qtz mag MoS_2 @ 0-10° 1442-1444.
1451	1476	As above 6-6/6-7	As above. Sharp but irreg contact averaging 40-50° @ 1476. Texture well defined in bleached, garnet ferous area near 1464. Texture is f.g. aplitic, weak to non granophyric. Otherwise texture is obscured in femag rich areas.	Weak irreg. bleaching. Garnetiferous replacement of feld @ 1464-this has abundant WO_3.	MoS_2 weak. Veining weak. WO_3 improved partic. near 1460, 1464

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1476	1506	Green grey porphyritic granodiorite aplite 6-6/6-5/5-5?? (Doubtful phase 5)	Sharp change in colour tone to green grey. Texturally there also appears to be a change--but this could be a function of relative amount of mat'l with unobscurred fabric. Rock is now a porphyritic granodiorite aplite. Anhedral to subhedral qtz & feld phenos constitute up to 15% of rock, although the relative abundance of pheno is variable. These are set in a v.f.g. sugary to f.g.aplitic fabric--locally this is weakly granophyric. Grain size of fabric appears more uniformly coarser grained 1498-1506, however a greasy green alt. is partially clouding texture.	A few small (< ½") garnet ferous "spots" are present to 1495. Sericitic alt. 1498-1506.	MoS_2 weak, but improves 1490-1500. 3"-4" weakly banded qtz-MoS_2 @ 20° @ 1497 & WO_3. WO_3 weak but improved. Strong near 1497. Vein Count: 1451-1460 = 33 1380-1490 = 43 1470 = 37 1500 = 38 1480 = 50 1506 = 32
1506	1543	Green grey greenish grey granodiorite aplite 6-3/6-5 Locally weakly porph.	Mostly green grey to greenish grey granodiorite aplite. F.G. to v.f.g. sugary fabric-locally weakly granophyric and locally weakly porph (anhedral qtz & feld to 1mm). Texture is clouded by sericitic alt to 1518'.	Sericitic alt. 1506-1518. Minor irreg. femag clotting Rarely get small (< ½") garnet ferous "spots".	MoS_2 weak but improved. Well defined set of qtz-MoS_2 @ 20-30°/ca. ¼" f.g. qtz-MoS_2 @ 20 @ 1512. 1½" weakly banded qtz & sparce MoS_2 @ 25° @ 1526. 1/8" qtz MoS_2 @ 30° @ 1533. ½" Qtz-Mag (banded) with rare MoS_2 @ 40° @ 1534. WO_3 weak but improves markedly 1530-1540. Vein Count: 1506-1510 = 17 1530-1540 = 41 1520 = 53 1543 = 9 1530 = 42

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1543	1573	Greenish grey v.f.g weakly porph granodiorite aplite 6-3/6-5	Mostly greenish grey weakly porphyritic granodiorite aplite. Up to 10% anhedral qtz & feld phenos set in v.f.g. weak to moderately granophyric fabric. This rock is porphyritic & v.f.g. fabric but there is not too much resemblance to typical 5-5.	Minor femag veining, clotting. Get brown and greasy dk green haloes or some pyritic veins.	MoS_2 weak. WO_3 weak but improved--probably .02 Veining weak. 1543-1550 = 37 1570-1580 = 36 1560 = 57 1590 = 36 1570 = 25 1600 = 32
1573	1602	Greenish grey granodiorite aplite 6-3	As above, but rock is non to very weakly porphyritic.		
1602	1648	Greenish grey v.f.g porphyritic granodiorite aplite 6-3/6-5/5-5?	Mostly greenish grey very fine grd porphyritic aplite. Varying amounts (up to 20%) anhedral qtz and feld to 1.5mm. Set in very fine grd weakly granophyric fabric.	As above.	MoS_2 weak. Best set @ 20-45°/ca. WO_3 weak but improved. 1600-1610 = 26 1630-1640 = 26 1620 = 41 1650 = 31 1630 = 33 1656 = 21 1/8-¼" fg qtz MoS_2 @ 25 @ 1614 " " " " " " @ " @ 1615 ¼-½" fg qtz-MoS_2-mag @ 20-30 @1616 ¼" mg qtz sparce MoS_2 @ 45 @ 1618 5/8" fg qtz, sparce banded MoS_2 @ 10° @ 1642. ½" banded qtz mag sparce MoS_2. On one wall. (Gives structure a width of 1") get c.g. mag, MoS_2 Cu @ 25 @ 1646.
1648	1670	Green grey to dk green grey porphyritic granodiorite 6-5.	Colour tone darkens, partic. from 1652. Femag flooded fabric accentuates qtz & feld phenos (white) in dark matrix. Size & abundance of pheno appears to have increased. Texture of fabric in a few leucocratic areas is still vfg to fg weakly granophyric aplite, otherwise is obscurred by femag.	Irreg. bleaching.	MoS_2 weak.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1670	1671	Dark green-black lamp dike.	Sharp irreg contact averaging 30°/ca @ 1670 into f.g. dark green black non magnetic "lamp" dike.		MoS_2 weak. WO_3 weak.
1671	1676	Strong carb-ser alt. adjacent to carb shear @ 30½ @ 1673, 1674	Rock is strongly altered to shades of olive darb, pale green. 2 carb veins to 3/8" cut @ 1673--these are @ 30-40°/ca. Colour tone of altered rock suggests that lamprophyre contact is near 1673.5'.	Strong carb-ser.	MoS_2 weak. WO_3 weak. Up to 3" qtz-some WO_3-and massive magnetite @ 35° @ 1673.5. This vein is cut by few sub parellel hairline carb stringers. Clots of mag & pyrrhotite @ 1674.5
1676	1677	Altered, irreg bleached dk green porph granodiorite per 1648-1670 6-5	Altered irregularly bleached dk green porphyritic granodiorite per 1648-1670. Texture of fabric is apparent in bleached areas--is v.f.g. weakly granophyric. Up to 20% anhedral feld to 2mm.	Irreg. bleaching & sericitic alt.	MoS_2 weak. 1/8-¼" qtz MoS_2 @ 1676 @ 30° WO_3 weak.
1677	1685	Light grey very weakly porphyritic mod-weak f.g. granophyric aplite 1-1/1-5	Relatively sharp contacts into light grey fine grained weakly porphyritic (anhedral qtz-feld to 1mm) weakly to mod. granophyric aplite. Short run of dark green 6-5 from 1680-1681 and near 1684.		MoS_2 weak. WO_3 weak.
1685	1713	Green grey porphyritic granodiorite aplite 6-5	Mostly green grey porphyritic granodiorite aplite. Up to 20% anhedral to subhedral feld- & qtz phenos to 2mm set in a f.g. nón to weakly granophyric fabrics Texture of fabric is best observed in more leucocratic phases.	Weak irreg. bleaching. Weak irreg carb-seric (greasy green)	MoS_2 weak-best @ 10-40°/ca WO_3 weak. Vein count 1680-1690 = 44 1656-1660 = 9 1700 = 31 1670 = 34 1710 = 26 1680 = 31 1713 = 11

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1713	1770	Green grey weak to mod porphyritic granodiorite aplite 6-5	Mostly green grey porphyritic granodiorite aplite. Abundance of phenos variable from 5-30%--are anhedral to subhedral qtz-feld to 2mm set in f.g. weakly granophyric fabric.	Strong biotite-seric haloe on mag, pyr, pyr & MoS_2 veins 1726-1743, 1750, 1756 -1758. Femag veining & streaking stronger--much mag in veins. A few small garnetiferous clots 1713-1720.	MoS_2 weak-but improved 1730-1750 Best set @ 10-30°/ca. WO_3 weak but improved. Vein Count: 1730-1740 = 32, 1750 = 38, 1720 = 26, 1760 = 20, 1730 = 31, 1770 = 22 MoS_2 commonly assoc. & pyr, mag, ½" cg qtz, MoS_2, mag @ 15-20° @ 1762.
1770	1830	Green grey, brownish green grey porph granodiorite aplite 6-5	As above, but some intermixed brownish (more biotitic) tones.	Weak irreg. bleaching. Rare small garnet ± epidote spots to ½" Ø	MoS_2 weak. 1/8-3/8" qtz-MoS_2 @ 0-10 1807-1810 WO_3 weak but improved--partic 1775-1800 1770-1780 = 19, 1800-1810 = 34, 1790 = 27, 1820 = 25, 1800 = 26, 1825 = 21
1830	1871	Dk brownish green grey weakly porph. granodiorite aplite 6-6/	Dark brownish green-grey weakly porph granodiorite aplite. Much of texture is clouded by biotitic-sericitic alt. In more leucocratic phases get up to 10% anhedral qtz feld to 1.5mm in f.g. aplitic fabric.	Strong biotite-ser.alt assoc. with mag & pyritic veins. Strong femag veining. Rare small garnet ± epidote spots to ½ Ø	MoS_2 weak. WO_3 weak.
1871	1901	Brownish green grey porph granodiorite aplite 6-3/6-5	Colour tone lightens to brownish green grey. Rock appears more strongly porphyritic (possible function of less obscured texture) in rock--but run is less altered than 1830-1871. Drillers lost some core 1850-1860--trouble with core tube.	Irreg. biotitic-ser alt. Femag veining & streaking.	MoS_2 weak. WO_3 weak but improved. Vein Count 1850-1860 = 16, 1825-1830 = 18, 1870 = 26, 1840 = 19, 1880 = 13, 1850 = 12, 1890 = 22, 1900 = 25

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1901	1958	Mostly green grey porphyritic granodiorite aplite 6-5 Possible diabase dike 1942-1944	Mostly green grey porphyritic granodiorite aplite. Brownish (biotitic) phases locally developed throughout. Rock is decidedly porph-up to 25% anhedral to subhedral qtz-feld to 2mm (mostly feld) set in f.g. to v.f.g. non to weakly granophyric fabric. Dark green f.g. equigranular diabase?? dike?? Sharp contact @ 1944 @ 30°.	Femag veining & streaking. Some biotitic-seri alt associated with femag veins.	MoS_2 weak. 3/4" banded mg qtz-MoS_2 @ 0-10 @ 1954. WO_3 weak. 1901-1910 = 17 1930-1940 = 22 1920 = 24 1950 = 15 1930 = 27 1956 = 13
1958	1976	Mostly greenish grey weak porph. mod. granophyric granodiorite aplite 6-3/6-5	Colour tone lightens--mostly greenish grey weakly porphyritic granodiorite aplite. 5-10% anhedral to subhedral feld to 1.5mm in a v.f.g. granophyric groundmass.	Femag veining. Some epidote "spots" to 1"Ø.	MoS_2 weak, WO_3 weak. ½" banded qtz-MoS_2 20° @ 1971.5 1/8-¼" " " " " @ 1974
1976	1998	Green-brown porph granodiorite aplite 6-5	Colour tone darkens. Green to brown porphyritic granodiorite. Anhedral to subhedral feld to 2mm accentuated in dark femag flooded fabric. It is assumed that the fabric is still f.g. aplitic as observed in "bleached" areas near 1980, 1985, 1994--here is v.f.g. granophyric. Rock becomes more strongly porph. near 1998.		MoS_2 weak. WO_3 weak.
1998	2008	Light brownish grey porphyritic granophyric granodiorite aplite 1-5	Gradational (relative abundance of femag) into light brownish grey porphyritic aplite. Up to 40% anhedral to subhedral feld with minor qtz to 2mm set in a f.g. (more coarse grd than previous porphyritic phases) graphophyric fabric.		MoS_2 weak but improved. Good set @ 10-30°. WO_3 weak.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
2008	2025	Dk greenish grey brownish grey porphyritic granodiorite aplite 6-5 F.g. diorite dike? @ 2015	Gradational into darker colour tone. Rock is dk brownish grey-greenish grey porphyritic granodiorite aplite. Up to 25% anhedral to subhedral feld & minor qtz to 2mm set in v.f.g. granophyric fabric. 3" Possible f.g. diorite dike (similar in texture to some of f.g. intrusives in the bottm, of ddh 67) Contacts sharp but irreg @ 40°/ca. Rock is dk brownish green-fine grd femag and small anhedral-subhedral feld laths with xenomorphic granular texture.	Bleaching & carb ser adjacent to 1/8" carb MoS_2 qtz @ 15° @ 2011.	MoS_2 weak. WO_3 weak-markedly improved 2020-2025 where known in veins & fractures @ 30°/ca. Vein Count: 1956-1960 = 9 1990-2000 = 41 1970 = 19 2010 = 45 1980 = 24 2020 = 41 1990 = 25 2025 = 30 ¼" qtz-MoS_2 pyr @ 20° @ 2021. Best set @ 10-30°/ca.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
0	38	Greenish-grey granodiorite 6-3	Mainly light to medium greenish-grey granodiorite Slightly developed granophyric texture Weakly porphyritic. Bleached?	0-1 Brown biotite-pervasive. Bleaching along veinlets Femag (chlor) in veinlets & patches <6".	0-10 13 qv 2' lost core 10-20 25 20-30 27 5°, 30° 30-40 25 40-50 13
38	74	Dark greenish-grey granodiorite 6-6	Medium to dark green fine-grained femag-rich GD As above but less bleaching. equigranular Minor section of med. green fine-grained diorite similar to phases of qtz-fsp. porphyry in DDH 67. Several greenish-black sections-femag rich "block zone".	Weak ser-carb alt'n. Mag-chlor hl veinlets 70-72 Brown biotite intense 68-69 Intense ser-carb & moly or ship faces.	50-60 15 60-70 13 70-80 27 68-69 Hi-grade moly in altered zone
74	92	Light greenish grey granodiorite 6-3	As above (0-38) Bleached? femag veinlets less common.	Ser-carb-pervasive-weak Diss. epidote	80-90 19 20° ca 90-100 26
92	132	White, buff or greenish granodiorite 5-5	Mainly white or greenish (some minor buff sections) fine-grained granodiorite porphyry-Quartz phenocrysts 1.5mm. Feldspathic matrix-minor fsp. phenos Weakly developed granophyric texture.	Argillized sections-minor Siliceous Qtz vein stockwork? 128-129 Yellow-green intense K-sp-ser-carb-qtz. alt'n.	100-110 19 <10° ca 110-120 26 120-130 17 <10° ca 120+ qtz-moly veins ll core axis 130-140 24 <10° ca
132	153	Light greenish grey granodiorite 6-3	As above-Bleached-multi femag veinlets occasional femag patches <6" slightly porphyritic. Less siliceous than above. 143, 146 Shear zone? rounded siliceous frags in femag matrix.	K-spar-salmon pink patches moderate, pervasive	140-150 19 150-160 17
153	209	Medium to Dark greenish grey granodiorite 6-6 (6-3)	Blotchy med. to dk. greenish-grey GD fine-grained, mostly equigranular-occasionally porphyritic-slightly granophyric. 178-100 Bleached? 6-3 med greenish grey.	Femag patches & veinlets bio-mag-chlor-hb. Minor K-spar salmon pink	160-170 20 170-180 42 20-45° ca 180-190 36 many tiny veinlets 190-200 45 200-210 59

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1740	1865	As above	1740-1742 Ground core. 1783-1787 Argillized sections-shows granophyric slightly porphyritic texture.	As before Biotite-intense in sections	1740-1750 36 1750-1760 51 1754 1" qtz-mo bar 1746,1750 3/4" banded 25° ca. qtz-mo veins 40°ca. 1760-1770 36 1770-1780 38 1780-1790 1795 1" band qtz-mo 1797-8 1" " 30°ca 1829 4" " 40° 1838 2" " 30°
1865	1909	Light to medium pinkish &/or greenish porphyritic aplite 1-5	Mainly light to medium pinkish or greenish fine-grained porphyritic & granophyric aplite. Minor sections of femag-rich material as above. 1903-1906 Dark brown f.g. femag rich rk-"block"?	Pink-pervasive K-sp. Buff or white-argillization Green-ser-carb or femag.	
1909	2161	Light pinkish to dark greenish grey or brown altered granodiorite 6-3, 6-6	Light areas as above, dark rocks as before (to 1865) 2031-32 Intense carb veining & ser-carb. Altered areas similar texture to above aplite.	As before 1930+ carb veining & assocd sericite alt'n increasing	1989 1½" banded qtz-mo 4 2007 1" " 70° ca. 2049 hi-grade Type II ½" 40°
2161	2226	Dark greenish grey granodiorite 6-6	Dark greenish grey f.g. femag-rich granodiorite. Probably granophyric (& maybe porphyritic) aplite with abundant femag.		2120.5 2" banded q-mo. 40°
2226		End of hole			High-grade WO_3 at end of hole.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1545	1578	Altered granodiorite 6-3, 6-6	As above but strongly altered as opposite--------	Femag-veins, veinlets, patches & pervasive distribution. Ser-carb-pervasive & as haloes near veins. Biotite-med. to dark reddish brown patches & speckles. K-spar-pink along veins Pyrite chlorite veins ; altered haloes- browncolour cuts femag veinlets & bleaching.	1550-1560 49 1560-1570 57 1570-1580 42 Banded qtz-moly veins. 2½" @ 1592 70° ca 3" @ 1593 "
1578	1620	Greenish granodiorite 6-3	Medium green to greenish-grey granodiorite-As before but has strongly altered. Pinkish areas due to K-spar.	K-spar-occasional pinkish area contain dissem. secondary (?) K-sp.	1580-1590 46 1590-1600 78 1600-1610 61 1610-1620 47 } fair MoS_2 low angle (< 30° ca) veins
1620	1740	Dark greenish granodiorite 6-6	As above-more femag. Areas of intense argillization, sericite alt'n. or garnet alt'n, show distinct porphyritic aplite aplite texture eg. 1729.	Intense carbonate veins & sericite alt'n @: 1664 Magnetite strong in veinlets & patches. Gar-epi intense 1696-98 1700+ Biotite alteration becomes more intense-but still patchy.	1620-1630 26 1630-1640 31 1641-2" banded vein 1640-1650 50 qtz-mo. 1650-1660 63 1660-1670 27 1670-1680 54 WO_3 weak or absent. 1680-1690 48 1690-1700 50 1700-1710 39 2" banded qtz-mo 15' 1710-1720 31 ca @ 1710 1720-1730 28 1" banded qtz-mo 30° @1 1730-1740 37 2" " " 45° @ 1732

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1223	1270	Greenish grano-diorite aplite 6-3 Altered	Medium greenish fine-grained granophyric altered granodiorite aplite. Minor pinkish sections due to pervasive salmon pink K-spar as before. Minor dark green (femag rich) sections. 1261-8" intensely altered carb sericite-shear zone?	As above	1220-1230 95 1230-1240 85 1240-1250 118 1250-1260 108 1260-1270 67 1270-1280 61
1270	1434	Medium to dark greenish as above 6-6 granodiorite	As above but more femag in veinlets & pervasive 1300-1302 Intense carb-ser. SiO_2 alt'n-K-sp. * pyr-moly-chalco. 1326-29 Brown speckled biotite alt'n. 1343-1346 White hi-silica rock & bleached aplite. 1350 + Mainly dark greenish grey or greenish black femag-rich granodiorite.	Femag more abundant Moderate pervasive ser-carb K-spar weak or absent. 1401-Intense pink K-sp. 1408-Intense ser-carb. apple green	Occasional hi-grade WO_3 veinlets Banded qtz-moly vein 1284-2"-30° 1280-1290 74 * see opp. 1290-1300 92 1300-1310 89 1310-1320 73 1320-1330 87 1330-1340 83 1340-1350 69 Hi SiO_2
1434	1490	Light to medium greenish-grey granodiorite 6-3	As above but less femag.	Minor sections & patches of: Garnet alt'n patches. Ser-carb-greenish biotite-speckled brown	1350-1360 72 1360-1370 90 1370-1380 86 1380-1390 90 1390-1400 93
1490	1545	Dark greenish-grey granodiorite 6-6	As above but femag-rich. Lighter patches show granophyric aplite.	Femag veinlets & patches. 1500-1510 43 1510-1520 51 1520-1530 61 1530-1540 47 1540-1550 54 pyrrhotite veinlets	1400-1410 62 1410-1420 63 1420-1430 61 1430-1440 77 1440-1450 46 1450-1460 53 ¼-½" quartz- 1460-1470 52 moly banded veins 1470-1480 59 @ 40° ca. @ 1470, 1480-1490 58 1495 1490-1500 50

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1089	1145	Altered aplite cut by stockwork 1-1, 1-3, 6-3	Aplite as above subjected to weak to strong alteration as follows-pink K-spar, black or dark green femag, waxy olive green sericite, argillization (buff), carbonate veinlets, brown biotite, minor epidote. Miner sections of high-silica rock. The result is a series of short sections of black dark greenish grey, pink, olive green, buff & white altered aplite. 1089-1109 Mainly pink or dark pinkish-gray 1109-1126 Mainly dark greenish-gy or green-black 1126-1135 Mainly leucocratic aplite-argil'n & ser. 1135-1145 Moderate to strong femag-med to dk greenish gy.	Femag-weak to intense, pervasive, greenish-black (Xpf biotite-brown) minor femag veinlets. Sericite-waxy olive green, pervasive obscures texture. K-spar-salmon pink to pink, complete replacement of original rock where intense. Argillization & hi SiO_2 as before.	MoS_2-in qtz veins @ 30°-ca. Generally in leucocratic sections ie-accompany argillization, sericite & Kspar alt'n. 1090-1100 191qv 1100-1110 155 1110-1120 201 Weak WO_3 1120-1130 183 1130-1140 165 1140-1150 169
1145	1189	Weakly porphyritic aplite 1-5 1-2/1-5	Buff, light greenish, or pink altered aplite, few phenos. 1145-1162 Mainly white to greenish white with minor pink sections. 1153-4 black femag-rich rk. 1162-1165 Speckled brown biotite alt'n. 1165-1172 Greenish white 1172-1179 Mainly pinkish K-spar rich, minor green sections. 1179-1189 Greenish white or buff aplite-Hi SiO_2	Femag-absent or weak Argillization moderate to strong. Sericite-moderate, green. Kspar-absent to strong.	1150-1160 229 1160-1170 180 1170-1180 208 1180-1190 202
1189	1223	Dark greenish-black or pinkish & green altered aplite 6-3	Medium to dark green or green black f.g. aplitic altered granodiorite. Sections of pinkish rock (Ksp).	Kspar-as above. Femag-moderate to intense in veinlets & pervasive	1190-1200 116 1200-1210 90 1210-1220 91

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903	937	Lamprophyre cut by stockwork & high SiO_2	Black lamprophyre cut by stockwork. Intense sericite alteration along veins alters rock to olive drab. Magnetic. Minor patches altered green or buff aplite.	Intense sericite alt'n along veins -olive drab	900-910 Hi SiO_2 910-920 " 910-WO_3 920-930 " 930-940 " 940-950 "
937	960	High silica rock	As above-patches of green altered rock & lamprophyre.		948-5" banded qtz-moly WO_3 (hi WO_3) vein, 25° ca. 957-4" banded qtz-moly vein
960	973	Quartz porphyry	Salmon pink aphanitic (matrix) felsite porphyry. Phenos of qtz & f-sp $<$ 2mm. Rock is pre-stockwork & pre-moly.	Green sericite moderately developed - pervasive	950-960 Hi-SiO_2 960-970 178 $HiSiO_2$
973	1039	High silica rock & quartz vein stockwork in aplite & lamprophyre.	As above. 973-981 Stockwork & hi-SiO_2 in lamprophyre. 981-994 as above - in altered green&buff aplite. 994-998 " - lamprophyre 998-1009 " - green & buff altered aplite. 1009-1012 " - lamp. 1012-1039 " - green & buff altered aplite.	green-sericite & carbonate buff-argillization waxy green-ser. alt'n.	970-980 Hi SiO_2 980-990 " 990-1000 " 995-3" banded quartz-moly vein 1000-1010 Hi SiO_2 moly veins @ 30° ca 1010-1020 Hi SiO_2 1023-banded qtz-moly 2' 30°
1039	1089	Buff, white, or green aplite cut by quartz vein stockwork. 1-1/1-3	Light green buff or white f.g. granophyric aplite. Cut by quartz vein stockwork. 1066-67, 1084-85 Pink aplite (salmon)	Green-sericite. Buff-argillization Pink-K-spar? Femag-minor patches.	1020-1030 Hi SiO_2 1030-1040 " " 1040-1050 233' qv 1050-1060 high " 1060-1070 " 1070-1080 " 1080-1090 "

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CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA LIMITED

HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
642	682	Greenish-grey altered aplite 1-2	Medium greenish grey very fine-grained, intensely altered equigranular aplite. Texture completely obscurred from 642-659. 659-682 "spotted" aplite less intensely alt'd than above-green sericite "spots" in white aplite.	Bleaching along veins Intense sericite alt'n minor carbonate veins. Silification strong. Femag - moderate	640-650 31qv 650-660 24 660-670 33 abundant magne- 670-680 53 tite in qtz veins 680-690 126 690-700 125 700-710 57 high silica rock
682	830	Qtz vein stock-work & high silica rock in buff aplite 1-1	682-706 As above but in quartz vein stockwork. Rock is intensely altered (ser-carb & silicification) aplite? - Quartz veins coalesce-individuals not apparent. 706-718 Mainly quartz. High silica rock. Inclusions of olive green or buff aplite. 718-726 Brownish altered rock. 726-735 Hi-silica-minor patches of dark grey or brown rock or buff aplite. 735-738 Mainly dark greenish or brownish altered rock 738-749 Hi-silica rock-minor sections of above rock 749-776 Altered rock-brownish, greenish, buff etc. Traces of aplitic texture apparent in places. 776-830 High silica rock-as above. Patches of buff granophyric aplite.	No orig. texture apparent	710-720 74 " 720-730 80 " 730-740 101 " 740-750 95 " 750-760 124 " 760-770 112 " 770-780 115 " 780-790 124 " 790-800 High SiO_2 800-810 " 810-820 " 820-830 " 830-840 155
830	838	Black Dyke	Black, very fine-grained, equigranular, non-magnetic trap rock. Cut by qtz-vein stockwork.	Intense sericite alt'n along quartz veins	840-850 Hi-silica 850-860 216 $HiSiO_2$ 860-870 238
838	903	Stockwork & high silica rk. Buff aplite 1-1	As above 838-856 Hi-silica-patches of buff aplite & trap rk. 856-873 Yellowish or buff aplite-stockwork 873-894 Hi-SiO_2 - patches of aplite. 894-898 " - black rock patches 898-903	-ser altn along qtz veins	870-880 Hi-silica 880-890 " 890-900 "

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
395	488	Leucocratic aplite 1-1	White or greenish-white fine-grained granophyric aplite. Mainly quartz & white feldspar. Numerous patches of femag flooding aplite. 411-415 femag zone bio, chlor hb mag 420-442 Greenish rock slightly porphyritic. 442-463 Porphyritic aplite-leucocratic matrix is granophyric-quartz & occas. feld phenos 463-484 Light greenish-white as above. Ser-carb 484-488 Dark green femag rich rock appears equigranular but may be same as above - sharp contact @ 85° ca.	Feldspathic material argillized. Patchy femag. Ser carb-waxy green pervasive (420-442) 463-484	400-410 59 410-420 77 420-430 51 430-440 63 440-450 78 450-460 71 460-470 77 470-480 70 480-490 75 490-500 75 Occasional hi-grade WO_3 veins
488	554	Porphyritic aplite 1-5	As above but more phenocrysts of qtz & fsp. Greenish- ser-carb Brownish-biotite 520-524, 528-539 Dark greenish-grey femag rich. 539-545 Light greenish or brownish - femag. 545-554 White, leucocratic, becoming less porphyritic	Minor pink K-spar along veins. Other as above.	500-510 84 510-520 61 520-530 69 530-540 106 qtz stockwork. 540-550 141
554	630	Leucocratic aplite 1-1	White, granophyric, fine-grained aplite as before. Occasional qtz eyes. Greenish colour due to weak ser-carb alt'n. F-spar argillized.	As before.	550-560 146 560-570 188 570-580 133 580-590 116
630	642	Altered Aplite	White, greenish-white, green, and brown intensely altered aplite. Strongly argillized & ser-carb Brown patches of biotite rich rock. 639-641 Greenish grey, aphanitic siliceous rock. 638 - Carbonite shear 1' calcite, sericite.	Ser-carb-intense, green many carb veinlets. Argillization - intense-clay minerals.	590-600 124 600-610 110 610-620 93 620-630 101 630-640 68

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)		
209	229	Dark greenish-grey granodiorite 6-6	As above but femag more abundant. 209-211-bleached white-argillized. 211, 212, 214-15 Intense green ser-carb alt'n.	Multi femag veinlets minor bleaching along veinlets. Minor argillization. Intense ser-carb in short sections. Patchy biotite alt'n.	210-220 220-230	41 23	
229	270	Light to dark grey granodiorite 1-2/ 6-6 "Block Zone"?	Light grey, white, medium or dark grey fine-grained equigranular granodiorite. Lighter patches siliceous & femag deficient Dark sections rich in bio, hb, mag etc. Light sections appear to be more strongly argillized and bleached?	Femag in large (< 3') patches.	230-240 240-250 250-260 260-270	33 21 28 37	
270	297	Light greenish grey granodiorite 6-3	Light greenish-grey fine-gd. equigranular GD. 286-287 Large qtz vein or Hi-Si rock-diss. moly.	Femag veinlets Minor bleached zone	270-280 280-290 290-300	31 27 20	 large veins hi-Si rock
297	306	High silica rock	Highly siliceous rock-appears to replace granodiorite in places and in others is similar to vein quartz. Many 1" blebs of brown or black biotite, with pyrrhotite, pyrite, scheelite, chalco, & moly.	Occasional femag patches	300-310	32	"
306	395	Altered Light greenish to green-black or brown granodiorite 6-3, 6-6	As before but with short sections of high-silica rock alternating with femag-rich patches. Mainly light greenish f.g. "bleached" GD. Bleached & argillized sections show f.g. granophyric or porphyritic textures. Hi-silica zones appear to be derived from many closely-spaces quartz veins, although no distinct vein structures can be seen. Granophyric texture becomes stronger down the hole. Leurocratic phases more frequent.	Bleached & argillized patches. High silica arg. Femag-rich " Brown bio at green ser-carb	310-320 320-330 330-340 340-350 350-360 360-370 370-380 380-390 390-400	32 58 56 47 45 38 60 70 72	

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
0	21	Dk. green slightly porph. granodiorite Aplite (6-6) Mag.	Mostly dark green, slightly porphyritic granodiorite 6-6. Subhedral faths of feld to 2mm set in fine grd. (≤1mm) non granophyric fabric. Texture is clouded in melanocratic phases. Rock is irreg. mag. throughout.	Some bleached areas--these generally have associated salmon pink K-feldspathization. Femag veining, clotting.	MoS_2 good--banded qtz-MoS_2--mag. veins @ 30-60°/CA. WO_3 fair-assoc. often with above veins. ¼" qtz ; sparce MoS_2 @ 40° @ 9' 3/4" qtz ; MoS_2-mag @ 30° @ 9.5' ½" qtz-MoS_2 @ 20° @ 10' 2"-3" qtz-MoS_2-mag @ 60° @ 10.5' ½" cg. qtz-thick MG MoS_2 Type II @ 45° @ 15 minn pyr. Cu. ½" banded qtz-MoS_2-mag @ 60° @ 19' ½" banded qtz MoS_2-mag @ 60° @ 11'
21	52	Green-grey--greenish gray weak porph. granodiorite. Aplite 6-3/6-5 Mag.	Colour tone lightens to green grey, greenish-grey with local salmon pink (K-feldspathization??) overtones, porphyritic granodiorite aplite. Variable amounts (up to 15%) of anhedral to subhedral feld. in fg. weakly granophyric fabric. Locally get of g. aplite (vis 31') Possible (but unlikely) dike 31-32. Textures best exhibited in more leucocratic phases. Some phases approach 5-5. Mag present in veins & in femag clots & streaks.	Extensive areas of salmon pink alt.	MoS_2 good, weak WO_3 some Cu. Best set-banded qtz-MoS_2-mag @ 30-60°/CA. ½" banded qtz-MoS_2-mag @ 45° @ 28' 5"-6" banded qtz-mag-MoS_2 @ 50° @ 34' 3/4" " " ThlMoS_2 @ 40° @ 35' 3/4" " "-mag MoS_2 @ 30° @ 37' 1" " " " " @ 20° @ 38' 1" " " " " @ 35° @ 38.5' 5" banded qtz-mag-pyr. MoS_2 @ 40° @ 1" banded qtz-mag-MoS_2 @ 35° @ 43' ¼" banded " " " @ 50° @ 48' ½" qtz MoS_2 pg @ 10-20 @ 50' 1½ fg qtz, sparce MoS_2 pyr. @ 60° @ 51'
52	54	Dk green to Black Mikro diorite "Dike" 6-7	Dk green to black f.g. dioritic rock. Relatively sharp but gradational contact @ 40-60 @ 52, 60-70 @ 54.		

R. V. KIRKHAM

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
54	90	Green grey, greenish grey weakly porph. granodiorite Aplite 6-3/6-5/6-6 Mag.	Mostly green grey to greenish-grey with local salmon pink (K-feldspathization??) overtones. Rock is weakly porph-anhedral to subhedral feld to 2mm (up to 5%) in f.g. aplitic fabric. Irreg. mag throughout. Mag. present assoc ; MoS_2 and femag veins, clots, streaks. Rock becomes somewhat more coarse grd 70-90. A few inches of dark green f.g. mat'l with irreg. contacts @ 85-lampdike or femag clotting.	A few garnetriferous clots. Dk femag veining, streaking.	MoS_2 good. WO_3 weak. 2 only ½" banded qtz-mag-MoS_2 @ 20-30 @ 54.5 ½" Qtz ; sparce mag, MoS_2 @ 20-30 @ 55 3/4" qtz-banded MoS_2, pyr @ 60 @ 5 Vein count. 0-10 = 57 10-20 = 40 20-30 = 34 30-40 = 58 40-50 = 27 50-58 = 25 3/4" Qtz, mag Sparce MoS_2 @ 50° @ 63 ½" banded qtz MoS_2 @ 30° @ 64 ½"-3/4" fg banded qtz-MoS_2 @ 30° @ 73' ½" banded qtz-MoS_2 @ 55° @ 76 3/4" fg banded qtz MoS_2 @ 60° @ 81 1½" qtz, sparce MoS_2, pyr. @ 40° @ 85 ½" Fg banded qtz-MoS_2 mag @ 40° @ 90
90	115	Green grey "normal" Granodiorite 6-6	Mostly green grey, dark green grey "normal" granodiorite. Distribution of femag gives apparent m.g. intrusive texture. Texture of fabric is clouded, but appears to be weakly porph. in f.g. (≃1mm) fabric.	Minor bleaching.	MoS_2 weaker. WO_3 markedly weaker. ½" fg qtz, MoS_2 @ 20° @ 109' Vein count. 58-60 = 4 60-70 = 21 70-80 = 37 80-90 = 32 90-100 = 27 100-110 = 21 110-114 = 8

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
115	166	Green grey, greenish grey granodiorite Aplite 6-3/6-6	Mixed green grey to greenish-grey granodiorite aplite. Rock is locally porph. with subhedral feld and mixed anhedral qtz to 1.5mm in a sub I mm. aplite fabric. Textures founded in darker, more femag rich areas. Browner (biotitic) overtones 157-166. Salmon pink to buff overtones (k-feld??) near 120, 125, 130-133, 154-157.	Irreg. bleaching, some femag clotting, streaking.	MoS_2 weak. WO_3 weak-best near 140. 3/4" banded qtz-MoS_2-mag @ 40 @ 122 ½" " " "$_2$ " @ 25 @ 124 ¼" FG qtz, sparce MoS_2 @ 15° @ 130 ½" " " " " @ 30° @ 160 Vein count 130-140 = 29 160-170 114-120 = 21 140-150 = 27 170-173 120-130 = 40 150-160 = 29
166	174	Green grey 6-6	Colour tone darkens to green grey--much of texture is obscured. Core broken, ½ carb-qtz pyr, chl @ 40° @ 170		MoS_2 weak WO_3 weak 3/4" mg qtz, m.g. dissem MoS_2@40@16 3/4" fg qtz, sparce mag, pyr @ 168 ¼" Type II drusy qtz, pyr, mag, fg MoS_2, @ 70-80 @ 172.
174	225	Mixed grey greenish grey, green gray granodiorite aplite 6-3/6-6 Carb shear @ 2025	Mixed grey, greenish grey, green grey granodiorite aplite. Mostly non granophyric sub 1mm. intergrowth of anhedral qtz & feld. Locally incipiently porphyritic. Strong carb. ser. alt. 199-208--this mat'l is olive drab in colour--textures obscurred. Some dissem MoS_2, pyr, in feld. areas in this zone. Irreg. areas of buff salmon pink alt. throughout.	Irreg. bleaching, femag clotting. Strong carb gen adjacent to carb shear @ 202.5. Here get 3/4" carb, gcuge @ 20°/CA. Irreg. areas of buff salmon pink alt. throughout Vein count 173-180 = 21 210-220 = 51 180-190 = 43 220-229 = 40 190-200 = 48 200-210 = 76	MoS_2 weak but improved. WO_3 improved from 180-229. 2" weakly banded qtz-MoS_2; k feld @ 30 @ 178. 4½" weakly banded qtz-MoS_2 @ 45 @ 186. ¼" banded qtz-MoS_2 @ 50° @ 194, cut by ¼" qtz-MoS_2 @ 70° 1/8" thick cg MoS_2 @ 70-90 @ 201 ¼" " " " @ 70 @ 202 ½" fg banded qtz-MoS_2 @ 30-40 @ 206 1½" zone banded qtz, sparce weakly banded MoS_2 @ 45° @ 217 5/8" weakly banded qtz, sparce MoS_2 pyr @ 40-45 @ 221 5/8" weakly banded qtz MoS_2 @ 40 @ 224

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
225	229	Green grey-greenish grey 6-3/6-6	Mostly green grey, greenish-grey, granodiorite aplite. Colour tone changes from previous run, due to absence of buff-salmon pink alt.		Weak MoS_2. Vein intensity reduced.
229	254	Green grey-greenish grey 6-3/6-6 Carb vein @ 240	Mostly green grey-greenish grey granodiorite aplite locally get weak brown (biotitic) overtones. Rock is weak porph (anhedral qtz-feld to 1.5mm). Fabric f.g. weakly to non granophyric. Buff-olive alt. adjacent to carb shear @ 240.	Minor femag spotting, streaking. Strong carb ser alt. adjacent to ½" carb @ 50-60 @ 240'.	Weak MoS_2, WO_3 weak. Best set of weak MoS_2 @ 30 and 50-60'/CA.
254	285	Green grey with patchy buff-salmon pink alt. 6-6	As above--overall colour tone slightly darker, patching buff-salmon pink alt. More abundant--weakens 284-285.	As above--Patchy buff salmon pink alt. adjacent to some weak veins. Femag clotting more intense. Vein count 250-260=44 229-230 = 2 270=42 230-240 = 25 280=30 240-250 = 34 285=22	MoS_2 weak-good near 281, WO_3 weak, but somewhat improved. 7/8" banded qtz, MoS_2, mag, ch l @ 40° @ 261 Set of H L-¼" qtz-MoS_2 @ 20-40° 3/8" qtz-MoS_2 @ 30° @ 281 3/4" qtz-dissem MoS_2 @ 50-60@281.5 ½" banded qtz-MoS_2 @ 40° @ 281.7
285	298	As above 6-6	As above. Colour tone darkens 292-298	As above. Femag more abundant 292-298. Strong carb ser alt @ ¼" carb, streaked out MoS_2 @ 30° @ 294.	MoS_2 weak, but improved. Best set @ 30-45°/CA. 3/8" qtz, sparce MoS_2 @ 45° @ 286. Cut by 1/16 thick MoS_2 @ 50° ½" banded qtz-MoS_2 @ 60-70 @ 288
298	334	Green grey, greenish grey, patchy buff alt. Granodiorite aplite 6-6.	As above. Colour tone lightens slightly. Patchy buff-salmon pink alt. Some altered brownish-(biotitic) mat'l 327-334--texture is clouded.	Patchy buff-salmon pink alt. throughout. F.g. biotitic alt. 327-334.	Set of H L-¼" qtz, f.g. MoS_2 @ 30 @ 292'. 3/8" fg qtz, sparce f.g. MoS_2 @ 30° @ 295.

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
298	334	6-6	continued		MoS_2 weak but improved. Possible .1. WO_3 weak. ½" qtz, sparce MoS_2 @ 45° @ 310 5/8" " " " @ 60-70 @ 311.5 ¼" " " " @ 30° @ 325 1" " " " @ 40° @ 326
334	341	Green grey granodiorite aplite	As above, colour tone darkens. Numerous Hl femag veinlets. Texture clouded except in leucocratic patches. Buff to salmon pink alt dies out near 340. Colour tone darkens markedly 340-341.	Strong Hl femag veining. Some femag clotting.	MoS_2 weak, WO_3 weak. Vein count 310-320 = 34 285-290 = 25 320-330 = 60 290-300 = 38 330-340 = 44 300-310 = 38 340-341 = 5
341	371	Dk. green, green grey granodiorite aplite 6-6/6-7 Lampdike 3525-353 3555-357 356-357	Dk green to green grey granodiorite aplite. Textures clouded except in leucocratic patches--here is f.g., weakly porphyritic aplitic. Fabric finer grd. than previous runs. Possible lampdikes--sharp contacts @ 60° @ 352.5-353. Irreg. contact @ 355.5, sharp @ 60-70 @ 357. Irreg. 356-357. These are dark green f.g. weakly mag.	As above.	MoS_2 weak. WO_3 weak, improved 360-370, sparce thereafter. 3/4" weaker banded qtz-MoS_2 @ 45 @ 349.5. ¼" mg suc qtz, flourite, sparce MoS_2 @ 50-60 @ 361. ½" qtz, dissem MoS_2, pyr, chl @ 20-30 @ 365. 3/8" qtz, MoS_2 mag @ 70° @ 358 Vein count 370-380 = 51 341-350 = 34 380-390 = 53 350-360 = 37 390-397 = 20 360-370 = 45
* CONTACT					
371	397	Dk grey-black aphanitic volc.	Blotchy pink feldspatlized area for a few inches @ this contact. Into dark grey to black aphanitic volcanics. A few small (1-2mm) feld lathes in the volcanics. Numerous HL veinlets in volc. these are accentuated by the bleached haloes--hence vein count misleading.		

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397	452	Dk grey-black volc A few small feld xtls.	Mostly dark grey to black aphanitic tuff. A few small lathes of feld to 1-2mm. Locally get bleaching adjacent to some veins.	Bleaching adjacent to some qtz pyr feld & chl veins. Vein count 397-400 = 10 410 = 42 420 = 41 460-470 = 40 470-480 = 56 480-490 = 69 420-430=48 430-440=43 440-450=39 450-460=29 mainly hairline fractures	MoS_2 weakly but a few qtz MoS_2 veins to ½" are present. Set of HL-½" qtz-pyr-feld chl (± carb, MoS_2) @ 30-50°--comm only with bleached walls. MoS_2 veins do not bleach rock. ½" fg qtz, sparce fg MoS_2 @ 30° @ 39 ½" qtz, banded MoS_2 @ 30° @ 405 3/8" qtz sparce MoS_2 @ 40-50° @ 416 ½" qtz, banded MoS_2 pyr @ 40° @ 434 ½" qtz, MoS_2 pyr, carb @ 10-20 @ 450 Some red hematite fleck on slip planes @ 435.
452	488	As above	As above. Slightly magnetic.	As above.	MoS_2 weak, WO_3 weak, but improves near 500. Qtz-fluor-py-mo vein, 3/8" 70° @ 503.5'.
488	523	Light & medium grey tuff	Mainly light to medium-grey crystal tuff aphanitic matrix, fragments <2mm. Minor sections of dark grey or black rock as above.	As above. WO_3 weak to moderate.	490-500 81 hl 500-510 53 " Banded qtz-mo vein, 25° ca, ½", 507 510-520 61 520-530 71 mainly hl Qtz-fluorite vein, 1/16", 65° ca,
523	544	Dark greenish-grey or greenish black tuff	Mainly dark greenish grey or greenish-black fine grained crystal tuff. Relatively unaltered.		529' 530-540 47 ½" 35°ca. 530
544	583	Light to medium grey siliceous tuff	As above.	As above.	Qtz-fluor-gypsum veins. ½" +py, 30° 53 Qtz-fluor-veins-538' 1/8-½ 70°ca. 540-550 87 550-560 58 560-570 101 570-580 85 Mostly hairline

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
583	666	Greenish-black crystal tuff	As before.	As before but very weak.	610.5' Qtz-fluor py vein 1/8" 40° ca 622 Qtz-fluor-py-chl ½" 45° 622 qtz-fluor-py 1/8" 45°
666	715	Medium to Dark grey tuff or flow	As before.	Qtz-chlorite, & carbonate veins have narrow, bleached feldspathic haloes. 673-674 Pinkish-buff altered rock-carbonate veinlets hematite, clay min.	624 Qtz-fluor 1/16" 50° 629.5 qtz-fluor 1/16" 35° 630+ as many qtz-fluor-py veins 680+ no more "
715	747	Alterations light pinkish grey rhyolite and dark grey tuff.	Alternating beds of pinkish-grey, v. f.g. tuffaceous rhyolite and tuff as before. 729 sharp contact @ 40° ca	Deuteric? alteration-many random feldspathic veinlets? ; pink haloes - hematite.	MoS_2 weak but uniform. WO_3 weak
747	931	Medium to dark grey crystal tuffs	Medium to dark grey fine-grained tuffs-crystal fragments up to 1mm - F-sp. frags. Mainly dark grey. Occasionally amygdaloidal	As before. (666-715) 836-2" carb shear 3" halo 850+ epidote haloes appear no more k-sp haloes.	836 2" carbonate shear. numerous hairline chalco-pyr veinlets
931	963	Light to medium grey rhyolite	Mainly light to medium pinkish or greenish grey tuffaceous rhyolite & rhyolitic tuff. Minor dark greenish tuffs as above.	Emerald green sericite &/or chlorite haloes around qtz veins. K-spar-locally pervasive resulting in pink rock.	944 ½" Type II 65° ca 959 3" Type II coarse qtz&moly 15° ca 968 ½" + banded qtz-mo v. 25° ca
963	993	Dark greenish-grey or greenish black crystal tuff	As above.	Weak, no K-spar, no haloes.	

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FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
993	1029	Altered crystal tuff fault?	Rock as above but alteration present. 993-995 Intensely altered rock. Orange or reddish-buff. Appears to be halo around carbonate vein or swarm of veinlets. - Fault? Rock is mainly unaltered, alteration confined to halo.	Intensely altered along veins-bleached, argillized, haloes. Locally rock completely convereted to argillaceous material + hema tite, epidote, K-spar carbonate, sericite. Some veins have haloes of intense epidote alteration.	WO_3 weak or absent. MoS_2 very weak.
1029	1049	Feldspar porphyry dyke	Medium grey feldspar porphyry dyke. Contacts 30° ca Phenocrysts of: white feldspar subhedral-up to 8mm hornblende-subhedral up to 1mm. in f.g. equigranular matrix of feldspar, femag magnetite & pyrite. Hornblende crystals aligned in crude foliation parallel contact.	Unaltered.	Diss. pyrite, magnetite.
1049	1075	Dark crystal tuff	As before. 1073 Contact between v.f.g. black tuff & light grey rhyolite @ 70° ca.	As before-very weak.	
1075	2012	Quartz Feldspar porphyry	Pink quartz-feldspar porphyry. Contact at 70° ca. Phenocrysts of: Pink feldspar <10mm, subhedral or euhedral. White feld<3mm anhedral rounded. Quartz eyes, <4mm. Hornblende <1mm subhedral Biotite <2mm. euhedral-chlorized. Matrix, fine-grained quartzo feldspathic equigranular + magnetite, pyrite, femag. Contact truncates quartz veinlets. Contact fresh, unaltered, no chilled margin or selvage	Zones up to many feet wide of pervasive sericite alteration. Light green color Most intense bordering carbonate quartz veins. Rare carbonate veinlets. " feldspar "	Diss. pyrite, magnetite Occasional pyrite veins <½" mostly hairline to 1/16". Occasional chalco in veins. MoS_2 absent. WO_3 weak in veins.

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CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA LIMITED

HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1075	2012	Quartz Feldspar Porphyry	1111-1112 Intense argillization, hematite, carbonate sericite. 1130 - 3" pink sugary aplite bordering qtz-chl-py vein Rare inclusions up to 2" of f.g. grey rock-diorite? 1167.5 ½" quartz-feldspar carb muscovite vein 30°ca Rock becomes less pink, more yellowish down hole. 1200+ Dioritic, f.g. inclusions become larger (<4") and more numerous. 1300-1350 Moderately to intensely altered see opp.-- 1421-22 Inclusion of f.g. grey porphyritic rock. 1350+ Rock fresh, rarely altered, pinkish grey Scheelite common in veins ; coarse pyrite. Rock becomes steadily less pink & more grey down hole 1860-1923 Numerous carbonate veins with altered haloes. Altered zones <2' wide-sericite, K-spar hematite, f-spar clay mine, epidote 1923 Many inclusions <2' of fine-grained, grey, weakly porphyritic rock. 1991-½" mo-qtz(cp) flakes mo< ½" 35° 1995 1" +qtz-mo-py(fsp) 20° 1996 1"+ " 20° 2010 hl qtz-mo 20° 2011 ½" mo-qtz-fsp 30° 2011 3/4" qtz-mo-py-scheelite 25° 2011 1/8-½ qtz(mo) 10° 2012 ½" qtz-mo-py-fsp 20° 2012 1/16 qtz-mo 15° embryonic vein.	bordering-carbonate-chl-py vein Occasional intensely sections arg-carb ser. Pervasive destroys texture varicoloured pink, green, yellow, red, orange. 1427 WO_3-py vein Occasional carbonate veins ; altered halo. 1919 1/8 qtz-py-mo 10° 1923 1/8" qtz-mo-py-fsp 30° 1937 1/16 qtz-mo 25° 1967 1/8" qz-mo-py 40° 1975 1/16" qtz-mo-py-chl10° 1978 1/16 qtz-mo-cp-femag 15° 1981 1/16 qtz-mo-py-femag 15°	VEINS WITH MoS_2 1180.5 1/8" qtz-mo-chl 35°ca 1206 - 1/8" qtz-mo-py-fsp 35°ca 1206.5-1/8" qtz-mo-py-fsp 40°ca 1222-1½" qtz-mo-fsp-fluor? moly rosettes < ½" 35°ca 1251-1/16-1/8" qtz-mo-py 20°CA 1251-1/16 qtz fsp-mo-py 55°ca 1273-hl 1/16 mo-py-qtz 20°ca 1324.5 Weak diss. mo in altered rock 1339-½" qtz-fsp-mo-carb vein. 1379-1/8-½" qtz-py-mo-fsp 45°ca 1399-1/8" indistinct qtz-mo-py-fsp40°ca 1400-½" 30° to ca-c.g. Q+Moly 1406 1/8-½" " 20° 1406 ½ qtz-py-mo-fsp 30° 1415 1/8" " 40° 1445 hl mo-py-femag 20° 1456 ½" qtz-mo-py-femag 35° 1469.5-5/8" qtz-fsp(mo-py)cpy 30° 1483-1/8" qtz-mo-cp-py-fsp 10° 1483-½" " 5° 1501.5 hl mo-femag 45° 1506-1/8" qtz-mo-py 40° 1548-hl-1/16 mo-femag-qtz 50° 1576-hl,30°-pyrite-mo-femag 30° 1639 1/16 mo-qtz-py 30° 1668 1/8" mo-qtz-py-femag 45° 1735 ½" qtz-mo-py 55° 1760.5 ½" mo-py(qtz-fsp) 40° 1773.5-1/8" qtz-mo-py 35° 1823-1/8" qtz-fsp-mo-py 40° 1979.5-1/16 ireg vein qtz-mo-py-fsp-chl 40° 1911-1/8" qtz-mo(fsp) 30°

All Type II

Type II

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
				M = moly (m) = weak moly, etc. List of all veins from 580' on(Dave J.)	582-¼" 40° f.g. qtz-moly 583-½(?) 10°-f.g., qtz. 584-1/8,50°-qtz-mag-fluorite 585-2-1/8,50°-Q-m-CaF_2' 586-1-1/8 60°-do 588-1/8,70-Q-mag-M 589-1/5,30°-Q-M-py-CaF_2 type II 591-1/8,30°-Q 592-1/16,5°-Q 591½-1/8-Q-Pyr. 594-1/8-20°-Q-M-mag, f.g. 595-1/8,10°-Q-mag. 596-1/8,60°-Q-mag. 597-1/8,40°-Q-M-mag,f.g. 597-1/8,70°-Q-mag,f.g. 600-1/16,20°-Q-pyr. 601-1/16,20°-Q-mag. 603-1/8-20°-Q-pyr 604-¼,20°-Q-mag-f.g pyr. 605-1/16,20°-Q-mag. 609-1/16,20°-Q-mag. 609-1/8,70°-Q-m- f.g 611-1/8,15°-Q cut by 1/8,30°-Q,pyr, cpy-CaF_2. 612-1/16,70°-Q-(mag.) 613-1/8,30°-Q-py-cpy 616-1/8,70°-Q-(m) 618-1/8,60°-Q-mag.-CaF_2 619-1/16,40°-Q-mag. 620-1/8,20°-Q-pyr-cpy II 621-1/16,70°-Q 622-½" 10°-Q-1(m) 623-1/2 -35°-Q-CaF_2-py 623-1/8,45°-Q " F_2 " cpy 625-1/16-50°-Q-mag. 625-1/16,40°-Q-mag. CaF_2 626-1/16,80°-Q-mag. 628- " 20°-Q-pyr-cpy-mag(m) 628-1/16,85-Q-pyr 629.2-1/6,20-Q-mag-pyr-(m)

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					630-½,20°-Q-M-mag. (I&II) 631-1/8-45°-Q-pyr 631-1/8-20°-Q-mag. 632-1/8-80°- 634-1/16,20°-Q-pyr-mag. 632- do 636-1/16,40°-py-CaF_2-chlor 638-1/8,40°-Q-M 639-¼,70°-Q-mag(M) 639-1/8,60°-Q-mag. 642-1/16,40°-Q-mag. 642-1/16,20°-Q-M-f.g. 643-¼,30°-Q-mag-M 643-1/8,20°-Q-M 644-1/8,70°-Q-M 644-1/16,30°-Q-pyr-cpy-CaF_2 645-1/16,45°-Q-pyr 649-1/16,30°-Q-mag 650-½,20°-Q-CaF_2 II 651-1/8,60°-Q-(mag-m-cpy) 652-1/8,30°-Q-mag-cpy 652-1/16,30°-Q-mag. 653-1/16,70°-Q-mag 654-1/16,45°-Q-pyr. 656-2 1/8,40°-Q-mag. 657-1/8,30°-Q-mag. 659-1/8,60°-Q-mag 659-1/8,30°- do 664-1/16.70°-Q-M 665-1/16.70°-Q-M-mag. 668-½,20°-Femag 671-hl,45° -M 672-hl,45°-M 674-2",45°-carb+bleaching 675-1/16.30°-Q-M-f.g. 681-1/8.50°-Q-(M) 681-1/8.50°-Q-chlor 682-1/16.20°-Q-mag (M) 683-¼,40°-Q-M-f.g. 683-1/8.30°-Pyr.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					684-1/8,40°-Q-M-f.g. 684- do,w/mag. 688-1/8,30°-Q-K-spar-MoS_2 II 689-½,70°-Q-M-mag. 691-1/8,50°-Q 692-1/16.60°-py-seric-II 692-½,30°-Q-/K-spar-py-II cut by 40°, 1/8, f.g. Q-M-I 693-1/16,70°-py 694-½,20°-Q-py-M-II 696-1/16,40°-Q-K-spar-mag 698-1/16,30°-Q-py-chlor. 699-1/8,30°-Q-M-f.g. 702-½,30°-Q-K-spar-M-II 703-1/8,10°-Q-/K-spar-chlor-carb II 704-½,70°-Q-M-f.g. 709-hl,30°-Q-mag. 711-1/8,30°-Q-M-py-II 712-1/16,20°-Q-M 717-1/16,30°-Q 720-½,5°-Q-K-spar-chlor 723-2-hl-30°-Q-M-f.g. 726-hl-60°-Q-M 729-1/8,30°-pyr + bleaching 732-1/8,20°-Q-py-II 732-1/16,45°--Q-f.g. 735-1/8,45°-Q-py-K-spar-II 738-1/16,30°-Q-f.g. 740-1/16,20°-Q-(M) 742-1/16,60°-Q-M-f.g. 742-1/8,45°-Q 742-1/8,20°-Q-K-spar-carb-II 744-1/8,45°-Q-f.g. 744-1/8,30°-Q-/(M)-f.g. 748-1/8,40°-Q-mag-(M) 751-2-1/16,30°-Q 753-1/8,30°-Q-K-spar-carb-chlor-II 754-1/8,5°-Q-M-mag. 756-1/8,10°-Q-py

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
				All veins excluding hl pyrite to 1070	756-hl,20°-M 756-1/8,20°-Q-mag. 757-½,10°-Q-K-spar-(M)-II 758-1/8,30°-Q-pyr. 762-½,10°-c.g. Qtz-(M)-II py 763-1/8,30°-f.g.Q 764-1/8,40°-Q-Kspar-chlor-py 766-2-1/16,45°-f.g.-Q' 767-1/16,10°-f.g.-Q 768-1/8,20°-f.g.-Q 769-1/8,30°-f.g.-Q 769-1/8,30°-Q-py-M 770-1/16,10°-Q-chlor-pyr-II 771-1/8,20°-pyr-cpy-Q-Kspar-II-M 774-1/16,40°-Q-chlor-mag-II 782-½,38°-Q-Kspar-py-II 783-1/16,30°-Q-Kspar-II 784-2,1/16,30°-py-cpy-II 784-1/8,30°-f.g.-Q-M 784-hl,60°-f.g.Q-M 785-½,40°-f.g. Q 786-½,30°-Q-py-M,f.g. 787-1/16,50°-Q-f.g. 789-1/16,30°-Q-Kspar-pyr II 789-hl,70°-f.g. M 795-1/8,50°-Q,f.g. 798- do, w/chlor 799-1/16,40°-f.g. Q 800-½,30°-Q-Kspar-chlor 801-1/16,30°-f.g. Q 802-1/6,70°-f.g.-Q-M 803-1/8,60°-f.g. Q-M 803-1/8,45°-f.g. Q 804-1/8,60°-f.g. Q 804-1/16,10°-Q-chlor-Kspar-pyr-II 807-1/8,80°-f.g. Q-femag 811-½,40°-Q-M-II 811-1/16,10°-Q-Kspar-II 814-1/8,45°-Q-py-Kspar-II 815-½,30°-f.g. Q-(M)-pyr

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					815-¼,45°- do 818-¾,45°-Q-(M)-Kspar-II 822-1/16,20°-femag 826-1/8,50°-Q-chlor-II? 832-1/8,20°-Q-M- f.g. 836-1/8,20°-py-II 841-1/8,20°-Q-py-M-II 841-1/8,20°-Q-M-py-II 843-2-hl,60°-f.g. Q-M 844-1/16-Q-py-M-II 850-1/16,40°-Q-py-cpy-II 854-1/16,20°-Q-py-cpy-II 860-1/16,45°-Q-II 861-1/16,40°-Q-chlor-II 864-¼,30°-Q-mag-M-I? 868-1/16,20°-Q-M 873-1/16,70°-Q-pyr-cpy-Kspar-II 876-3/4(?),10°-Q-carb-II 877-1/16,60°-Q-mag-I 878-1/8,20°-Q-Kspar-pyr-mo-II 882-¼,10°-Q-carb-cyp-Mo-chlo-Kspar-II 884-1/16,50°-Q-py 884-¼,30°-Q-(M)-f.g. 889-1/16,45°-Q-mag. 884-1/16,20°-Q-pyr-cpy-II 885-1/16,30°-Q-Kspar 886-1/16,45°-Q-M-f.g. 887-1/16,40°-Q-M-I 898-¼,30°-Q-M-mag. I 899-¼,70°-Q-mag-I 899-¼,30°-Q-M-I 899-1/16,20°-Q-M-I 908-¼,20°-Q-mag-Kspar-I? 912-½,50°-Q-mag-Kspar-II? 913-1/16,30°-Q-chlor-py-II 914-1/16,Q-Kspar-py 915-1/16,30°-Q-mag. 916-2-1/8,30°-Q-Kspar-chlor 917-1/16,40°-Q-M-I 918-1/8,30°-Q-mag-M-I?

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					922-1/8,30°-Q-M-rich / II 928-1/16,20°-Q-pyr-cpy-II? 944-½,50°-Q-M-II 947-hl,40°-Q-sericite-II 952-hl,20°-Q-py 959-1",15°-Q-M rosettes-II 962-1/8,50°-Q-/(M)-I 964-1/8,10°-Q-KI? 966- 1/8,10°-py-II 967-1/16,40°-Q-seric-II 969-½,20°-Q w/f.g. M-I? 970-1/8,60°-Q-fluorite-py-II 982-1/8,20°-Q-chlor-II 998-1/8,60°-Q-II? 996-2",20°-carb alteration+sericite 1000-1/8,10°-Q ,Q-chlor-II 1001-1/8,20°-Q-Kspar-II- cuts hl-I 1012-1/8,10°-Q-II 1015-1/8,30°-do 1016-¼,20°-Q-Kspar-carb-M-II 1018-½,20°-Q-chlor-Kspar-II 1026-1/8,40°-Q-II 1028-1/16,40°-Q-py-cpy-II 1046-1/8,20°-Q-Kspar-carb-II 1047-hl,45°-Q-mag-II 1047-¼,10°-Q-II 1051-1/8,20°-Q-py-cpy-II 1057-1/16,40°-Q-M-I 1067-1/16,30°-Q-py-chlor-II 1073-hl,30°-Q-M 1075-1/16,70°-Q-I-cut by feldspar por Contact 1070 hl veins measured, also in biotite qtz monzonite. 1077-1/8,10°-Q-Kspar-carb-II 1082-1/16,60°-Q-II? 1093-1/8,30°-Q-py-II 1094-hl,30°-do 1095-3/4",20°-Q-Kspar-II 1096-1/8,10°-Q-pyr-II 1099-1/16,10°-Q-seric-II 1105-1/16,20°-Q-seric-II

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					1108-hl,20°-Q-py 1111-¼,20°-Q-py-chlor-musc MoS_2 1113-1/16,20°-py 1117-hl,30°-py 1118-1/8,30°-Q-carb-chlor-II 1126-1/16,20°-Q-seric-II 1130-1/16,30°-Q-chlor-seric 1130-1/8,40°-Q-pyr-chlor-II 1136-hl,20°-pyr-Q-II 1138-1/16,20°-Q-M-cpy-II 1147-1/8,25°-Q-pyr-scheelite-II (black light) chlor 1159-1/16,70°-Q-seric-(M)-II 1179-1/16,5°-py-chlor-II 1168-½,30°-Q-carb-coarse sericite II See notes by K. Daughtry, 1168'-cn. (Veins <u>without</u> moly, not listed by Daughtry, listed below) 1207-1/8,40°-Q-pyr-II 1210-2-hl-10°-pyr-chlor-II 1213-hl,40°-chlor 1224-¼,30°-Q-pyr-II 1230-½.20°-dissem py-sericite 1233-1/16,20°-Q-pyr-II 1233½=2-1/8,20°-Q-py-II 1242-hl,30°-pyr 1243-½,40°-py-qtz-II 1244-1/8,20°-Q-carb-seric-II 1253-1/16,35°-Q-cpy-pyr-II 1267-1/16,45°-Q-seric 1270-1/16,40°-Q-pyr-chlor' 1274-2",45°-c.g. Q-II 1284-1/8,10°-py-II 1297-1/16,40°-pyr 1298-hl,40°-pyr 1299-1/16,45°-Q-pyr-II 1300-2",20°-c.g. drusy Q,pyr-II 1301-¼,60°-Q 1307-½.40°-Q in aplite

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
				1339 1/16" hl qtz pyr → 1341 1345 hl 90° pyr → 1346	1309½-hl,45°-pyr 1317-½,20°-Q-II 1318-hl,5°-Q-pyr-cpy-II 1319-1/16,60°-Q-pyr-seric-II 1327-1/8,60°-pyr 1329-hl,60°-pyr 1334-1/16,70°-Q-pyr 1335-hl,40°-do 1341-hl,70°-Q-pyr 1346-1/16,10° -Q-pyr 1356-1/8,10°-Q-pyr 1359-hl,10°-pyr 1362-3-1/16,30°-Q-seric-II 1364-1/8,10°-Q-pyr 1384-½,40°-Q segregations +carb in aplite-II 1389-1/8,50°-Q-II 1402-1/8,20°-Q-pyr-II 1410-1/8,10°-c.g. Q-II 1427-1/8,20°-Q-pyr-II 1436-1/16,70°-Q-pyr-II 1436-1/16,20°-do 1449-1/8,60°-Q-carb-II 1451-hl,10°-Q-pyr-femag 1452-½,20°-Q-seric-II 1487-hl,40°-pyr 1503-1/8,20°-Q-pyr-seric-II 1508-½,10°-Q-pyr-WO_3 (black light) 1511-1/16,10°-pyr-chlor 1512-1/8,45°-pyr-Q-II 1514-1/8,10°-Q-pyr 1516-hl,10°-pyr 1517- do 1525-1/16,30°-Q-pyr 1529-1/16,40°-do 1561-1/8,50°-py-seric-II 1562-hl,30°-py 1565-hl,20°-do 1577-1/8,30°-Q-seric-II 1591-1/8,20°-Q-pyr-II

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					1599-¼,30°-Q-carb-II 1610-1/16,45°-Q-seric-II 1611-¼,20°-Q-pyr-II 1613-1/8,45°-Q-py-chlor-II 1620-hl,45°-Q-pyr-chlor-II 1625-1/16,Q-pyr-chlor-II,45° 1628- do 1631-1/8,20°-do 1633-¼,10°-do Veins without moly (see all K. Daughtry notes) 1636-hl,45°-py-chlor 1642-¼,40°-Q-carb-py-II 1643-1/8,20°-py-II 1658-hl,10°-py 1659-10-hl, py 1664-1/8,30°-Q-Kspar-II 1669-hl,45°-py-chlor 1670-hl,30°-do 1671-1/16,45°-Q-py-II 1680-1/8,45°-Q-Kspar-II 1682-1/8,40°-Q-py-chlor-II 1683-hl,45°-py 1702-¼,20°-Q-carb-musc-II 1705-¼,30°-Q-py-scheelite-II 1706-1/8,30°-Q-II 1714-hl,45°-py-chlor-II 1718-hl,40°-Q-py 1724-1/16,40°-py-chlor-II 1744-1/16,40°-Q-cpy-II 1747-hl,45°-seric 1754-1/16,45°-py-seric-II 1756-1/8,30°-Q-py-carb-II 1770-1/8,30°-Q-py-?I 1775-1/8,30°-Q-py-seric-II 1781-1/8,20°-Q-Kspar-II 1782-1/8,30°-do 1789-1/8,40°-py 1795-hl,40°-Q-Kspar-II 1799-1/16,40°-py-Q-II

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CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA LIMITED

HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					1840-hl,40°-py-cpy 1845-1/8,30°-Q-carb-II 1850-1/16,20°-py 1855-2-hl,30°-py 1860-1/8,Q-carb-20°-II 1867-1/16,20°-Q-seric-II 1870-hl,20°-py 1870½-hl,30°-py-chlor- 1872-20°-chlor-qtz-II, 1/8" 1882-¼,40°-Q in aplite broken or "embryo vein" 1890-1/8,20°-Q-seric-II 1892-1/16,25°-do 1903-½,40°-Q-py-II 1910-2-1/8-1/4-Q-py-II-10° 1912-1/8,10°-Q-seric-II 1919-¼,20°-do 1929-hl,5°-py 1941-1/16,30°-Q-femag-py-II 1943-1/8,20°-Q-femag-II 1951-1/16,40°-Q-py-II 1960-1/8,20°-Q-py-femag-II 1964-hl,10°-py 1966-1/16,30°-Q-femag-II 1987-¼,20°-Q-discontinuous, in aplite, "embryo vein"-II 1988-hl,5°-py 1993-1/8, to - Q-feld.-II 2015-1/16,30°-Q-scheelite-py-II 2054-1/16,20°-Q-py-scheelite-II 2071-1/8,15°-Q-carb-II 2072-hl,10°-py 2079-do 2103-1/16,20°-Q-py-II 2104-do w/scheelite 2107-hl,10°-py 2109-1/8,Q-py-scheelite-II 2110-¼,30°-Q-II 2120-hl,20°-py 2138-1/16,20°-py-scheelite.

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DETAILED GEOLOGY, DRILL LOG

HOLE No. _____

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
				2142-1/8" 10° qtz pyr ser → II	2140-1/8,10°-py-Q-II 2153-1/8,10°-Q-py-seric-II 2154-hl,45°-py-seric 2158-1/8,20°-Q-seric-II 2158-2-hl latecarb,45° 2166-hl,30°-py-femag 2169-1/8,40°-Q-py-II 2172-hl,10°-py-scheelite 2173-5-hl,45°-qtz END-2200' All= veins noted-2200' on 2210-¼-10°-Q-py-femag-II 2209-hl,20°-py 2217-1/8,10°-Q-M-rich-II 2219-hl,10°-Q-py-M-seric-II 2227-¼,20°-Q-py-femag-II 2228-1/16,10°--Q-M-py 2231-hl,20°-py 2233-hl,py-20° 2254-1/16,15°-Q-py-II 2261-1/16,Q-15°-w/py 2273-1/8,15°-Q-py-seric-II 2286-1/8,10°-Q-carb-(M)-II 2294-¼,20°-Q-py-II 2300-1/8,20°-Q-py-II 2309-1/8,20°-Q-carb-py-femag-II 2326-hl,40°-py 2332-1/8,10°-Q-py-seric-carb-II WO_3 2336-1/8,20°-py-II 2342-hl,20?-py 2372-hl,10°-Q-femag-py-II 2374-1/8,45°-Q-seric-II 2377-7,hl,45°-Bleached (consider one vein) fracs 2388-1 1/8,20°-Q-femag-II 2388-1/16,15°-py-femag 2389-hl,10°-py-femag 2398-1/8,10°-Q-py-hl-II 2401-1/16,45°-late carb -2 +4hl (lvs 2417-1/6,15°-Q-py

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
		2744-hl-5°-Q-carb?-ser	2710-1/8,75°-Q	2572-1/16,45°-py+2" bleached zone.	2417-2-1/16,45°-Q
		2746-hl,60-Q-chl	2710-3-hl-Q-10	2573-hl,45°-Q+bleaching	2420-¼,5°-Q-py
		2746.5-hl,20-Q-chl	2711-2-hl-20°-chl-cp-Q	2579-1/8,40?-Q	2434-1/8,Q-femag-carb-10°-II
		2747-hl,40-Q-chl-py	2716-1/16-85°-Q-Ksp	2574-1/8,10°-Braided Q, "embryo" vein+(cpy)	2442-hl,45°-py-femag
		2747-¼,15-Q-chl-py	2716.5-1/16,50°-Q-py	2576-1/16,20°-Q	2443-1/6,10°-do
		2748-hl,20-Q-carb? ser	2721-¼-65°-Q-ser-bleached 1"	2583-¼,5°-Q	All veins noted, beyond 2200'
		2750-hl,60-Q-chl-py	2721-¼,65°-Q-ser " "	2583-1/8,60°-Q-py	2447-¼,10°-Q-py-(Purple fluorite)-II
		2751-1/8,25-Q-py-chl	2725-1/16,Q-45°	2587-hl,20°-Q-py	2453-hl,30°-Q-femag-py
		2751-hl,40-Q-ser-carb?	2725-hl-Q-chl-45°	2588-hl,45°-Q	2471-1/8,10°-Q-py-femag
		2752-1/16,25-Q-py-fl chl?	2726-1/16,Q-15°	2589-hl,45°-femag	2473- 1/8,30°-Q-py-(M)-II
		2752-hl "	2726.5-hl-Ksp-Q-80°	2592-1/8,60°+Qtz+seric+alteration	2478-1/6,20°-Q-femag-II
		2752-2-hl-ser-carb (Q)	2728-hl,35°-Q-chl-cp	2593-1/8-¼,10°-Q-py-in "x" pattern-prob. only 1 vein, not 2	2478-1/16,10°-Q-py-(M)-II
		2753-2 "	2730-2-35-hl-Q chl	2594-hl,70°-Q + bleaching	2481-1/16,45°-Qtz
		2755-2 "	2731-hl,45°-Q	2595-1/16,60°-Q	2482-1/16,10°-py
		2758-2-hl,25-femag	2731-hl-25°-Q-cp-chl	2597-hl,70°-Seric+bleaching	2482-1/6,30°-Femag-py
		2758.5-hl,20-Q-py	2732-hl,65°-Q-chl	2601-hl,10°-py	2483-1/8,20°-Q-Py-femag
		2761-2-hl-Q-py-25	2733-hl,15°-Q-cp	2602-hl,20°-py	End 2500'
		2761-hl,30-femag	2733.5-hl,40°-Q-cp-chl	2603-hl,30°-Q	2511-1/8,40°-Q
		2762-hl-Q-py 15	2734-hl,15°-Q-chl-py	2610-hl,40°-femag	2512-hl,30°-Femag. Also 2" bleached zone @ 2511½
		2770-¼,20-Q-py-chl	2734.5-3hl1/16-Q-Ksp-chl 40°	2613-hl,40°-Q-femag	2513-¼,20°-Q-seric-II
	*	2773-1/16,30°-Q/Mo-cpy	2735-hl-chl-Q-45°	2615-1/16,40°-Q-femag	2515-1/16,45°-Q
		2775-hl-10-py-chl	2736-1/16,30°-Q	2619-1/16,10°-Q-py	2523-hl,50°-py
		2778-2-15-Ksp-py-Q-fluor?	2736.5-1/8,75°-Q-Ksp-ser-bleached	2625-hl,10°-Q-femag	2525-1/8,20°-Q-femag (py)-II
		2778-1/16,40-chl-Ksp-Q	2737-2-hl-Q-Ksp-45°	2633-hl,45°-femag	2528-hl,40°-femag
		2779-1/8,10-Q-scheelite-py-chl	2737-50°-1/16,Q	2635-2-hl,Q-femag,45°	2531-1/16,40°-Q-py-femag
		2780-hl,35-Q-py	2737.5-1/16,10°-Q-cp-chl-py	2646-¼,20°-Q	2531-1/8,50°-Q
		2781-hl,40-Q-Ksp	2739-1/16,40°-Q-Ksp	2662-hl,10°-py-femag-3" bleaching	2535-4",60±-Bleached zone-vein?
		2781.5-hl,20-ser-Q-py-carb? *	2739-hl-Q chl-40°	2663-hl,45°-py+2" blching	2536-1/8,10°-Qtz
		2783-hl,20-Q-chl'	2739.5-hl,45°-Q-Ksp-py	2664-hl,45°-seric+2" bleaching	2539-hl,70°-py-femag
			2740-1/8,45°-Q-cp	2665-1/16,20°-py-Q	2542-hl,30°-femag
			2740-1/8,45°-Q-chl	2667-hl,50°-Q-femag	2544-hl,30°-seric-Q
			2741-1/8,30°-Q-chl	2669-hl,60°-Q-seric+1" bleaching	2551-1/8,20°-Q-femag
			2741-hl,40°-Q		2557-hl,60°-femag-py
			2743 2hl45°-Q-chl		2560-1/8,10°-Q-py-femag-II
			2743 2hl45°-Q		2564-hl,60°-py-Kspar
			2743-hl,15°-Q-Ksp-carb?		2565-1/16,20°-Q-py
			2743.5-1/8,15°-Q-M-py-chl		2566-hl,15°-do
			2743.5-hl,20°--Q-chl		2569-1/8,10°-Q
			2670-1",45±-Dissem py+strong bleaching-sericite 3"		2570-1/16,20°-Q
			2671-1/16,5°-Q-py		
			2673-hl,80°-Q-seric+1" bleaching		
			2673½-1/16,20°-Q		
			2674-hl,20°-py		
			2675-2-hl,40°-Q-seric		
			2676-1/8,80°-Q+2" bleaching		
			2677-1/16,70°-Q + 1" bleaching		
			2678-hl,20°-Q-py + 1½" bleaching		
			2679-hl,70°-Q + 1" bleaching		
			2680-1/8,30°-Q-py		
			2682-2-hl,Q-seric-45°		
			2682½-2-hl,70°-Q-py in 1" bleached zone		
			2683½-1/8,50°-Q + 3" bleached rock		
			2685-hl,60°-py		
			2686-hl,70°-py		
			2687-hl?,80°-+ 1" bleached rock		
			2688-hl,60°-py		
			2692-1/16,20°-Q-py		
			2698-hl,Q-Ksp		
			2698-hl,30°-Q-chl		
			2700-3/8-Q-II 50°		
			2701-¼,50° embryo Q-Ksp-bleaching 1"		
			2701-2 hl,35-Q		
			2702-hl-5- Q		
			2706-1/8,85°-fsp bleached		
			2706-hl-60°-Q		
			2709-¼,15°-Q-py		
			2710-1/8,10°-Q-py-bleaching 2" Ksp-ser-py		

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CLIMAX MOLYBDENUM CORPORATION OF BRITISH COLUMBIA LIMITED

HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					2784-1/8,10°-Q-Ksp-ser-py 2787-hl,40°-ser-carb 2790-hl,20°-Q-py-chl 2797-hl-5-2-ser-carb-Q 2799-2-hl-50 " 2799-hl-50-Q 2800-2-hl-Q-ser-carb- 2804.5-3-hl-ser-carb-bleached altered-40° 2805-1/16,25°-Q-ser-py 2806-1/16,55°-Q-ser-py 2809-3-hl-ser-carb-40° 2813-1/8,Q-py-ser-10°-scheelite 2820-1/8-¼-5°-Q-py-ser 2824-1/8,1/4-5° " 2826-1/8-20°-Q-py-(mo) 2831-halo-5° 2833-1/16,Q-ser-py-40° 2835-1/8,40°-Q-ser-py-scheel
				Strong alt'n*	

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
2012 p	2185	Quartz feldspar porphyry	As above 2112-2113 Orange pink f.g. aplite rock 2116-2119 Dark grey f.g. porphyritic rock contact@35° 2119+Rock as before but darker (greyer) colour 2153-2182 Altered-as before=carb veinlets & haloes-more hematite.	Strong alteration of above type in mineralized zone near 2000! Carb-ser alt'n intense in haloes < 2" along veins	2033-qtz-mo-py ½" 30° ca. 2043-3/8" qtz-mo-py 15° 2050-hl-mo-py-scheelite 10° 2063-½" qtz-mo-py-fsp 15° 2069.5 hl 1/16 qtz-mo-py-femag 20° 2102-1/8 qtz-mo-py-scheelite-20° 2112-1/8" py-mo (qtz) scheelite 45° 2155-½" qtz(mo) 25° 2180-½" qtz-mo-chl 25° 2184-½" qtz-mo-py-fsp 30°
2185	2243	Quartz monzonite porphyry	As above. Rock is virtually unaltered except along veins. 2682-2684 Intensely altered 2660-2687 Numerous veins & altered haloes.	2682-84 Intense ser-carb alt'n & bleaching-All mafic veins destroyed	
2743	2948	Altered Quartz monzonite porphyry	Distinct change in rock type--possibly entering different phase of composite intrusion. Rock is not as fresh looking as above--matrix is more feldspathic darker colour tone F-spar phenocrysts anhedral-partially resorbed? More abundant pink K-spar in matrix. 2781.5-2783 Buff-white, aplitic dyke (or altered zone). Aplitic, f.g. matrix-quartzofeldspathic-& scattered phenos of f-sp & muscovite.	Pervasive Sericitization	
2948 End	3103		As above but much less pink f-sp in matrix 3006-3022 Numerous small (< 6") inclusions grey f.g. dioritic rock.		

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)		ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
					2842.5-femag-py-Q-hl-5°	2926.5-hl-60-ser-carb
					2842 " 30°	2928-1/8,10-Q-py-femag-scheelite
					2845- " 5°	2930-hl-20-ser-carb-halo
					2849-hl,5°-Q-ser	2934-hl-60-Q-py-femag
					2847-1/8,¼,40°-Q-chl	2936-1/8-35-Q-sch-py-femag-fsp
				*	2855-1/16,10°-Q-(Mo)-py-chl	2937-hl-45-Q
					2858-2-1/16,55° carb ser halo	2937-1/8,¼-20-Q-qtz-ser-py-chl
					2858-hl-carb-ser-40°	2943-¼-½-40-Q-py-chl
					2861.5-hl-30-carb-ser	2940-1/16-10-Q-py
					2862-2-hl-60°-carb-ser-halo	2946-1/8-15-Q-chl-py
					2868-30-¼-Q-scheelite	2946.5-1/8-30 "
				*	2870-20-¼-Q-Mo-py-ser-fsp rich	2947-1/8-¼-10- "
					2873-1/8,75-Q-Ksp	2951-1/8-15- "
					2875-hl-45-carb	2952-1/8-35-Q-ser-Ksp-chl
					2877.5-½-45-Q	2954-1/8-20-Q-ser-Ksp-chl-halo
					2879-2-hl-5-carb-ser-py	2955-1/8-5-Q-ser-Ksp-chl-halo
					2879-hl-45-py	2955.5-¼-25-Q-chl-ser halo
					2879.5-hl-30-Q	2959-1/8-15-Q-ser-carb-Ksp-halo
					2880-hl-10-Q-carb-ser-halo	2960-2-hl-60-ser-carb halo
					2880-hl-55 " halo	2962-2-hl-40 " halo
					2881-hl-15-Q-ser-carb-halo	2962.5-hl-60 " "
					2882-2-hl-45-ser-carb "	2963-hl-30 "
					2884-2-hl-45 "	2963-hl-10 "
					2889-hl-45-ser-carb	2963.5-hl-35 "
					2890-hl-35 "	2964-hl-25-ser-carb halo
					2894-hl-80-carb	2965-hl-30 " "
					2896-2-hl-20-carb-ser qtz	2965.5-2-hl-20 " "
					2897-hl-40-Q-py	2966.5-hl-45- " "
					2900-hl-40-Q-chl	2966.5-1/16-25-Q-ser-carb"
					2901-hl-15-Q-carb-ser	2966.5-1/16-30-Q-ser-Ksp "
				*	2902-¼-10-Q-py-(Mo)	2967-hl-50=ser-carb "
					2903-1/16,50-Q	2967-hl-45 " "
					2911-3-hl-60-carb-ser-Q	2969-4-hl-60 " "
					2915-¼-15-Q-py-femag-fsp	2969-hl-15- "= "
				*	2916-hl-45-Q-Ksp (Mo)	2976-¼-60-Q-ser-fsp "
					2925-1/16-20-Q-femag-py	2977-1/8-60 " "
				*	2926-1/16-15-Q-py-(mo)=fe-mag	2979-1/8-50 "
						2980-¼-1/8-5-Q-fsp
						2981-1/8-10-Q
						2981.5-hl-50-Q-ser-carb
						2988.5-1/16-Q-25

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HOLE No. _____

DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
				3098.5-h1-20-ser-carb-halo 3100-h1-70-ser-carb-halo	2990-h1-25-Q-py-femag 2995-h1-65-carb-ser halo 2997-h1-75- " " 2998.5-1/8-25-Q 2999-h1-15-carb-ser-Q-halo 3002-h1-65-ser-carb 3012-1/16-30-Q-femag 3014-2-h1-65-ser-carb-py-cp-halo 3017-h1-70-ser 3019-1/8-60-Q-carb-ser-py 3020-3026-1/8-Q-femag-scheelite-py 3035-h1-40-Q-py-femag 3041-½-25-Q-chl 3041-h1-60-ser-carb 3044-h1-60-ser-carb-halo 3050-h1-10-Q-femag 3055.5-1/8-25-Q-py 3066.5-1/16-Q-20 3067-1/16-20-Q-py-femag 3067-h1-20-Q-py-femag 3067-1/16-10-Q-femag 3068-2-h1-20-Q-py-femag 3068-2-h1-40-Q-py-femag 3069-4-h1-40-Q-py-femag 3073-1/16-10-Q-py-femag 3074-h1-55-ser-carb-py-Q-halo 3075.5-h1-15-Q-py-femag 3076-1/16-60-Q-py-ser-carb-halo 3077-1/8-10-Q-cp 3077-h1-55-ser-carb 3079-1/16-45-Q-femag-Ksp-py 3083.5-1/16-50-ser-Q-carb-py-halo 3085-1/16-15-Ksp 3085.5-½-80-Ksp 3093-½-Q-chl-py-10° 3094-3-h1-carb-ser-halo 3094-1/16-20-Q 3097-2-½-20-Q py-ser-chl-fsp-halo 3098-h1-10-femag 3098-h1-40-ser-carb-halo

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
			SUMMARY		
0	371	Granodiorite	Mainly medium-grey, fine-grained granodiorite and granodiorite aplite. 0-21 6-6-dk green aplite-slightly porphyritic 21-52 6-3/6-5 med. greenish aplite 52-54 micro-diorite dyke 54-90 6-3/6-5/6-6 weakly porph. greenish aplite 90-115 6-6 dark green-grey normal granodiorite 115-254 6-3/6-6 mixed greenish aplite & normal g.d. 254-341 6-6 greenish-gy-patchy pink & buff alt'n. 341-371 6-6/6-7 Dark greenish aplite 352.5-353, 355.5-57-lamp. dykes.	Femag-veining & clotting Bleaching-along veins, buff assoc'd with Ksp. Ksp-salmon buff pink-in bleached haloes & in irregular patches Ser-carb-intense along veins.	0-21 MoS_2 strong, WO_3 fair 21-90 MoS_2 strong, WO_3 weak 90-115 MoS_2 weaker, WO_3 weaker 115-371 MoS_2 weak, WO_3 weak
371	1075	Volcanic Rocks	371-488 Dark grey or black aphanitic tuffs 488-523 Light-medium grey tuff-aphanitic matrix 523-544 Dark greenish-grey to greenish-black tuff 544-583 same as 488-523 583-666 same as 544-583 666-715-Med. to dark grey tuff or flow 715-747 Alternating light pinkish-grey rhyolite & dk. gy. tuff. sharp contact @ 40° ca. 747-931 Med. to dk. grey crystal tuffs 931-963-light to medium gy rhyolite 963-993 same as 747-931 993-1029 As above but altered 993-95 Intensely altered rock- FAULT ZONE? 1029-1049 Feldspar porphyry dyke-30° c.a. 1049-1075 Dark grey crystal tuff.	Bleaching-along some veins Kspar-in veinlets, haloes & irreg. patches 993-1029 Same alt'n as above but intense along veins-locally rock completely converted to argillaceous material & h ematite, epi, K-sp, carb, ser.	MoS_2 very weak WO_3 weak to absent. 500-680-many qtz veins carry fluorite.

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DETAILED GEOLOGY, DRILL LOG

FOOTAGE FROM	FOOTAGE TO	MAP UNIT	ROCK DESCRIPTION (Color, textures, structures, etc.)	ALTERATION (Wall rocks, veins)	MINERALIZATION (Wall rocks, veins) (See detailed vein data sheet)
1075	2743	Quartz Monzonite Porphyry	Contact 70° c.a.-truncates quartz vein. Pink quartz monzonite porphyry Phenos of pink Ksp (10mm) white fsp (3mm) quartz eyes (4mm) hornblende (1mm) bio (2mm) Matrix-f.g. quartzofeldspathic equigranular & mag, py, femag. Fresh contact-no chilled margin, no selvage	Rock fresh except for intense ser-carb alt'n along veins=haloes up to 2" wide.	See vein count sheets & diagrams.
2743	3103 END	"Altered" quartz Monzonite porphyry	Darker pinkish & greenish rock similar to above but texture apparently obscured by alteration. Feldspar phenos appear partically resorbed. Matrix more feldspathic. More abundant pink K-spar in matrix.	Pervasive sericitization & haloes on veins.	

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