EARTH SCIENCE LABORATORY

LITHOLOGIC STRIP LOG

DRILL HOLE MCG-2

STATE B. C. COUNTY _____ PROJECT MEAGER CREEK

SEC. _____ TWP. _____ RGE. _____ ; LOC. _____ FNL, _____ FWL

TD _____ BOTTOM HOLE FORMATION _____ SURFACE FORMATION _____

LOGGED BY Sibbett DATE 2-85 SAMPLE INTERVAL(S) _____

LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐

SPUD DATE _____ COMPLETION DATE _____

DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV. _____

DRILLING FLUID(S) _____

REMARKS Logged to distingish Dikes from matrix rock

DRILL SITE IN SECTION

Drilling DEPTH meters / Vertical Depth	ALTERATION 1. WEAK 2. MOD. 3. STRONG: chlr 123	ep 123	qtz 123	123	cal. 123	py-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
									samples start at 10 m.	
20									10-30 Mixed Litho. mostly aphanitic dacitic - Poss Gravel.	
40									30-850 Diorite, med. gray, qtz - bio, hornb. xenomorphic, meta-diorite, hornb. part. alt to chlr.	
60										
80										
100										
	Tr	Tr								
									fine cuttings 185-200.	
200										
300						Tr				
	Tr									
400	Tr	Tr								
	Tr	Tr							yellow zone - prob. stain of limonite from drilling.	
									Plag. crystals glassy fresh.	
500										
	Tr	Tr							euh. hornb. fresh.	
	Tr									
600	Tr					Tr				

EARTH SCIENCE LABORATORY

LITHOLOGIC STRIP LOG

DRILL HOLE M.C.G. - 2

STATE B.C. COUNTY ______ PROJECT MEAGER CREEK

SEC ______ TWP ______ RGE ______ ; LOC ______ FNL, ______ FWL

TD ______ BOTTOM HOLE FORMATION ______ SURFACE FORMATION ______

LOGGED BY Sibbett DATE 2-85 SAMPLE INTERVAL(S) ______

LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐

SPUD DATE ______ COMPLETION DATE ______ DRILL

DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV ______ SITE IN

DRILLING FLUID(S) ______ SECTION

REMARKS Logged to distinguish Dikes from matrix rock

Depth	ALTERATION (WEAK, MOD, STRONG)	LITHOLOGY GRAPHIC	LITHOLOGIC DESCRIPTION	DRILLING TIME (MIN/FT), SCALE
			Samples start at 10 m.	
20			10-30 Mixed litho. mostly aphanitic dacite? (fine grained)	
40			30-850 Diorite, med gray, qtz-bio-hornbl.	
60 / 80 / 100			xenomorphic, meta-diorite; hornb. part. alt. to chlo.	
200			fine cuttings 128-200.	
300				
400			yellow zone - prob. stain of limonite from drilling	
			plag. crystals glassy fresh.	
500				
			and hornb. fresh.	
600				

DRILL HOLE MCG-2 MEAGER Cr. PAGE 2 OF 4

DEPTH Meters	ALTERATION 1. WEAK 2. MOD. 3. STRONG: chl. 123	ep 123	qtz 123	123	cal. 123	py-gy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
600									30-850 Meta Qtz-Diorite, med. grain, hornb.-bio. xenomorphic. Light gray.	
	Tr					Tr			cement chip.	
700	Tr									
	Tr	Tr							Mafic dike? or zone 765-770	
800	Tr	Tr				Tr			Aphanitic mafic dike 830-35	
	Tr	Tr				Tr			850-865 Aplite or Felsic Dike - Cream color, leucocratic.	
	Tr					Tr			865-1190 Meta-Diorite, qtz, horb, bio.	
900	Tr	Tr				Tr				
		Tr							cement chips -955m.	
						Tr			Meta-Diorite is less mafic below 950m.	
1000	Tr								Cuttings are ± 1m, below ~980 may be different rock unit.	
	Tr								? Monzonite?	
	Tr									
1100	Tr									
	Tr									
						Tr			Poss. dike 1175-1180	
1200						Tr			1190-1205 Dacite? Dike, fine grain, grn, alt.	
									1205-1625 Meta? Diorite or Monz.? Less mafic than above	
									Light gray, med to fine grain.	
									pervase rust stain from drill steel.	
									cement chips.	
1300									LCM.	
								N.S.		
									More mafic unit returns 1307 0-	
1400									Less alteration.	
	Tr								fresh looking rock	
	Tr									
1500										

DRILL HOLE MCG-2 MEAGER Cr. PAGE 2 OF 4

DEPTH metres	ALTERATION (1 WEAK, 2 MOD., 3 STRONG): Chl, ep, sil?, cal, py-?	LITHOLOGY GRAPHIC	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./FT. SCALE
600			30-850 Meta Qtz Diorite, med grain, horab-bio	
			xenomorphic, light gray	
			cement chip.	
700			Mafic dike? or zone 765-770	
800			Aphanitic mafic dike 830-35	
		+ +	850-865 Aplite or Felsic Dike - Cream color, leucocratic	
			865-1190 Meta Diorite, qtz, horb bio.	
900			cement chips - 955m.	
			Meta Diorite is less mafic below 950m.	
1000			Cuttings are < 1m, below ~980 may be different rock unit.	
			? Monzonite?	
1100			less dike 1175-1180	
1200			1190-1205 Dacite? Dike, fine grain grn alt.	
			1205-1625 Meta? Diorite or Monz? less mafic than above	
			light gray, med to fine grain	
			pervasive rust stain from drill steel.	
			cement chips.	
1300			L.C.M.	
		N.S.	More mafic unit returns 1307c -	
1400			less alteration	
			fresh looking rock	
1500				

DRILL HOLE MCG-2 MEAGER CR. PAGE 3 OF 4

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG) Chlr. 123	ep. 123	qtz 123	123	Cal 123	py-cpy 123	gypsum 123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
1500									1205-1625 Meta? Diorite, qtz, bio., med. grain. L. gray. Siliceous zone 1520-35	
									Dacitic dike-1565-70 m, Aplitic Dike 1570-1580, Leucoc.	
1600									Aplitic Dike, 1590-1605, siliceous	
									1605-1625 Meta Diorite, qtz-bio, as above.	
									1625-1665 Dacitic? Dike, aphanitic, pale grn-gray. chips ≤ 1mm. Lower contact is gradational.	
						Tr			1665-1780 Dike?, Latitic? less mafic than above, cream color	
1700	Tr				Tr					
	Tr				Tr					
	Tr				Tr	Tr				
					Tr					
	Tr				Tr	Tr				
									Mafic dike or zone 1740-50	
									1780-2025 Dacite?, light grn, aphanitic, minor qtz	
1800		Tr							grades to Light-med. gray., black peppered	
1900									Diorite zone? 1910-1930 less mafic.	
	Tr									
		Tr								
		Tr				Tr				
2000										
		Tr							2025-2045 Diorite? phaneritic, qtz, bio.	
									2045-2055 Dacite	
	Tr	Tr							2055-2415 Quartz Diorite or Monz.? V. light gray.	
2100	Tr	Tr				Tr			few fine grain mafic chips.	
									2115-2120 Dike-leucocratic, aplitic?	
									Quartz Diorite as above, ~5% bio., (poss. gneiss?	
									10% bio. large flakes, poss. LCM	
		Tr							Core at 2220 sampled gneissic pod or xenolith.	
2200		Tr							Gypsum, abund. bio. coarse flakes & books.	
									Poss. secondary quartz	
									Cuttings size doubles below 2250'	
	Tr	Tr								
	Tr	Tr				Tr			Dacite Dike, 2280-2290 m. fine grain-aphanitic	
2300	Tr	Tr							Latitic? Dike, 2305-2315, Less mafic than dike above.	
	Tr					Tr			Meta Qtz Diorite continued	
		Tr								
2400		Tr								

DRILL HOLE MCG-2 MEAGER CR. PAGE 3 OF 4

DEPTH meters	ALTERATION (1 weak, 2 mod., 3 strong): Chlr, ep, qtz, Cal, py-chlp, gypsum	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN/FT. SCALE
1500			1205-1615 Meta? Diorite, qtz, bio, med grain L gray. siliceous zone 1520-30	
			Dacite dike 1565-70 m, Aplite Dike 1570-1580, 10 segs.	
			Aplitic Dike 1590-1605, siliceous	
1600			1605-1625 Meta Diorite, qtz-bio, as above	
			1625-1665 Dacite? Dike, aphanitic, pale grn-gray chips ± 1mm. lower contact is gradational	
			1665-1770 Dike?, latitic? less mafic than above, cream color	
1700			Mafic dike or zone 1740-50	
			1780-2025 Dacite?, light grn aphanitic, minor qtz grades to light-med gray, black appearance	
1800			Diorite zone? 1?	
1900			Diorite zone? 1910-1930 less mafic.	
2000			2025-2045 Diorite? phaneritic, qtz, bio.	
			2045-2055 Dacite	
			2055-2115 Quartz Diorite or Mons? & light gray. few fine grain mafic chips.	
2100			2115-2120 Dike - leucocratic, aplitic?	
			Quartz Diorite as above, ≤5% bio. (loss quartz?)	
			10% bio. large flakes, 2055 LCM	
			Core at 2220 sampled gneissic gd or xenolith.	
2200			Gypsum, abund. bio. coarse flakes & books.	
			less secondary quartz.	
			Cuttings size doubles below 2250'	
2300			Dacite Dike, 2280-2290 m. Fine grain aphanitic	
			Latitic? Dike, 2305-2315, less mafic than dike above.	
			Meta Qtz Diorite continued	
2400				

DRILL HOLE MCG-2 MEAGER CR. PAGE 4 OF 4

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG) chlor 123	ep. 123	Qtz 123	123	cal. 123	PY-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
2400										
2184	Tr								2055-2415 Meta Diorite, med. gray, qtz, bio.	
									2415-2440 Dike, light gray felsite, peppered, sugary	
		Tr							2440-2460 Meta-Diorite or Monz.? Qtz rich, ~15% bio sugary text	
2239	Tr								2460-2475 Dike, light gray felsite, peppered,	
2500		Tr							2475-3500 Gneissic rock, qtz rich, 15% bio.	
									Poss. a Meta igneous rock, banding not evident.	
									med. grain, xenomorphic, all feldsp. wh. to glassy	
		Tr								
		Tr							Poss. minor dike, few wh. rounded clay alt. cuttings	
2600	Tr				Tr				Felsite dike, 2610-2615, med. gray-peppered.	
		Tr							Gneissic rock cont. ~20% bio.	
		Tr							~15% bio.	
2700									crude foliation evident in larger chips.	
									~20% bio.	
									weak foliation.	
2800										
									~20% bio.	
2900		Tr								
									fine grain mafic zone 2925-2930m.	
						Tr			Gneiss looks like qtzite with ~20% bio.	
						Tr				
3000						Tr				
		Tr							~30% bio. + hornb. ?	
3100									~15% bio.	
3200										
		Tr								
									~15% bio, Gneiss continued. fine grained.	
3300									Same rock to T.D or EOS. at 3500m.	

DRILL HOLE MCG-2 — MEAGER CR. — PAGE 4 OF 4

DEPTH (meters)	ALTERATION (1 WEAK, 2 MOD, 3 STRONG)	LITHOLOGY GRAPHIC	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./ FT. SCALE
2400			2055-2415 Meta Diorite, med. gray, qtz, bio.	
			2415-2440 Dike, light gray felsite, peppered, sugary	
			2440-2460 Meta-Diorite or Mons, Qtz rich, ~10% bio	
			2460-2475 Dike, light gray felsite, peppered, sugary text	
			2475-3500 Meta Diorite, qtz rich, 15% bio.	
2500			Poss. a gneiss, but foliation or banding not evident.	
			med. grain, xenomorphic, all feldsp. wh. to glassy	
			Poss. minor dike, few wh. rounded clay alt. cuttings	
2600			Felsite dike 2610-2615, med. gray - peppered.	
			Dioritic rock cont. ~20% bio.	
			~15% bio.	
2700			crude foliation evident in larger chips.	
			~20% bio.	
			weak foliation.	
2800			~20% bio.	
2900			Fine grain mafic zone 2928-2935m.	
			Gneiss looks like qtzite with ~20% bio.	
3000			~30% bio. + hornb. ?	
3100			~15% bio.	
3200				
3300			~15% bio Gneiss continued. Fine grained.	
			Same rock is T.D. or EOS. at 3500m.	

Alteration columns: Chlor, Ep, Seric, Cal, Py-Cpy (each scaled 1 2 3)

2184

2239

EARTH SCIENCE LABORATORY

LITHOLOGIC STRIP LOG

DRILL HOLE MEAGER CREEK MCG-3

STATE B.C. COUNTY Canada PROJECT _____

SEC. _____ TWP. _____ RGE. _____ ; LOC. _____ FNL, _____ FWL

TD _____ BOTTOM HOLE FORMATION _____ SURFACE FORMATION _____

LOGGED BY Sibbett DATE 3-85 SAMPLE INTERVAL(S) 5 meters

LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐

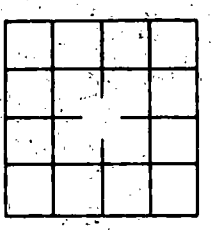
SPUD DATE _____ COMPLETION DATE _____

DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV. _____

DRILLING FLUID(S) _____

REMARKS Logged to locate dike intervals

DRILL SITE IN SECTION



ALTERATION 1. WEAK 2. MOD. 3. STRONG

DEPTH meters	chl 123	ep 123	qtz 123	123	cal 123	py. 123	123	GRAPHIC LITHOLOGY
180	Tr							N.S.
200		Tr						
220								
240		Tr						
260		Tr			Tr			
280								
300	Tr							
		Tr						
	Tr	Tr				Tr		
400	Tr	Tr				Tr		
					Tr			
	Tr	Tr				Tr		
	Tr	Tr						
	Tr	Tr						
500								
600	Tr				Tr	Tr		
					Tr			
	Tr							
700	Tr							

LITHOLOGIC DESCRIPTION
Samples start at 170 m.
170-250 Qtz Diorite? Litho. uncertain, med. to coarse grain qtz + feldsp. with bio. partially alt. to chlor., also hornb. → chlor. 1mm ave. chip size is smaller the rx. grain size.
250-280 Mafic dike, fine grain, bio, chlor, alt. prx? med. grnish gray.
280-300 Dike - dacitic? Light grnish, fine grain qtz, feldsp., minor bio → chlor.
300-405 Qtz Diorite? as above. xenomorphic. poss. meta-Diorite, euh. py. cubes < 1mm in fine grain qtz veins.
405-425 Felsite dike, white, aphanitic, leucocratic
425-585 Qtz Diorite?, matrix rock as above.
~½ felsite dike
below dike diorite is fresh
585-595 Aplitic dike, leucocratic, minor chlor. after bio
595-650 Dacitic dike, fine grain, to aphanitic, pale grn
~½ Qtz diorite 615-635,
Qtz rich component 640 -, poss. Qtz vein 650-655
650-670 - Granitic? or poss. Latit - Rhy. Dike?
670-795 Qtz Diorite or Monz, qtz rich, bio, hornb, fresh

DRILLING TIME MIN./____FT.

SCALE

EARTH SCIENCE LABORATORY
LITHOLOGIC STRIP LOG

DRILL HOLE MEAGER CREEK MCG-3

STATE B.C. COUNTY Canada PROJECT

SEC. TWP. RGE. ;LOC. FNL, FWL

TD BOTTOM HOLE FORMATION SURFACE FORMATION

LOGGED BY Sibbett DATE 2-85 SAMPLE INTERVAL(S) 5 meters

LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐

SPUD DATE COMPLETION DATE

DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV

DRILLING FLUID(S)

REMARKS Logged to locate dike intervals

DRILL SITE IN SECTION

DEPTH (meters)	ALTERATION (1 WEAK, 2 MOD., 3 STRONG): Chl	Ep	Qtz		Cal	Py		GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./FT. SCALE
									Samples start at 170 m.	
180								N.S.	170-250 Qtz Diorite? Litho. uncertain med to coarse grain qtz + feldsp. with bio. partially alt. to chlor., also hornb. → chlor. 1mm ave. chip size is smaller the rx grain size.	
250–300									250-280 Mafic dike, fine grain, bio chlor, alt. px? med. greenish gray.	
									280-300 Dike - dacitic? light greenish fine grain qtz, feldsp., minor bio → chlor.	
300–400									300-405 Qtz Diorite? as above. xenomorphic poss. meta-diorite. dis. py cubes < 1mm in fine grain qtz veins	
400									405-425 Felsite dike, white, aphanitic, leucocratic	
									425-585 Qtz Diorite?, matrix rock as above.	
									~½ felsite dike	
500									below dike diorite is fresh	
600									585-595 Aplitic dike, leucocratic, minor chlor after bio	
									595-615? Dacitic dike, fine grain, to aphanitic, pale grn	
									~½ Qtz diorite 615-635	
									Qtz rich component 640 -, poss. Qtz vein 650-655	
									650-670 - Granitic? or poss. latit - Rhy. Dike?	
700									670-745 Qtz Diorite or Monz. qtz rich, bio, hornb. fresh	

DRILL HOLE MEAGER CREEK MCG-3 PAGE 2 OF 5

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG) chl 123	ep 123	qtz 123	123	cal 123	py-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
700									670-795 Qtz Diorite or Poss. Monz, Qtz-rich-	
20	Tr	Tr							slight change in chips at 740, smaller, less sceudo gouge	
40										
60										
80										
800					Tr				795-810 Dacite ? Dike, fine grain, pale grn.	
						Tr			810-840 Qtz Diorite(?), with dacite mixed.	
									840-910 Dacite, aphanitic, grayish grn, deuteric alt. leucocratic latite? dike 865-870m. grnish white	
900									910-1055 Qtz Diorite, sheared, alt., silicic dike chips light gray, fresh bio., few felsite chips xenomorphic, poss. secondary quartz	
1000						Tr				
	Tr				Tr	Tr			Poss. qtz veins, abundant qtz 1025-	
									Dacite dike 1040-1045, few dacite chips above & below dike	
					Tr				1055-1075 Dacitic Dike, grnish-gray, qtz	
1100									1075-1090 Silicic Dike, Latite or Rhy? White, large qtz xls.	
									1090-1190 Mixed litho. dacite, rhy, qtz vein, Diorite	
						Tr			Poss. breccia or structurally complex zone	
									Silicic felsite chips increase, diorite absent	
1200	Tr			Tr	Tr	Tr			1190-1330 Rhyolite qtz porphyry, white, leucocratic.	
	Tr				Tr	Tr			with ~15% dacite chips cont. to 1210 m.	
	Tr				Tr	Tr			fine surgary texture	
	Tr				Tr	Tr				
	Tr				Tr	Tr				
1300	Tr				Tr	Tr				
	Tr	Tr			Tr	Tr			1330-1360 Mafic dike, andesite?, med. gray, aphanitic	
	Tr				Tr				~½ aplite or rhy. chips 1345-1360	
	Tr				Tr				few large chlorite xls	
1400	Tr				Tr				1360-2390 Qtz Diorite-gneiss, leucocratic, white,	
	Tr				Tr				with few large chlorite xls, qtz xl. chips.	
	Tr				Tr				Zones of mafic dike chips, large ep. xls.	
	Tr				Tr				cuttings are ≤ 1mm, smaller than rock grain size	
	Tr				Tr				therefore rock texture can not be determined.	
1500	Tr				Tr	Tr				
	Tr				Tr				Feldspars that can be identified in cuttings are plag.	
	Tr				Tr				but some K-Feldspars may be present.	
	Tr				Tr					
	Tr				Tr					
1600	Tr				Tr				Sulfide is chalcopyrite	

DRILL HOLE MEAGER CREEK MCG-3 PAGE 2 OF 5

DEPTH (metres)	ALTERATION (1 WEAK, 2 MOD, 3 STRONG)	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./FT. SCALE
700			620-795 Qtz Diorite or poss. Mnz, Qtz rich	
			Slight change in chips at 740, smaller less saussuritized	
800			795-810 Dacite ? Dike. Fine grain pale grn.	
			810-840 Qtz Diorite(?), with dacite mixed.	
			840-910 Dacite, aphanitic, grayish grn, deuteric alt.	
			leucocratic latite ? dike 865-870m. grayish white	
900			910-1055 Qtz Diorite, sheared, alt, silicic dike chips	
			light gray, fresh bio, few felsite chips	
			xenomorphic, poss secondary quartz	
1000			Poss. qtz veins, abundant qtz 1025-	
			Dacite dike 1040-1045. Few dacite chips above & below dike	
			1055-1075 Dacitic Dike, greenish-gray, qtz	
			1075-1090 Silicic Dike, latite or Rhy ? White, large qtz xls	
1100			1090-1190 Mixed litho. dacite, rhy, qtz vein, diorite	
			Poss. breccia or structurally complex zone	
			Silicic felsite chips increase, diorite absent	
1200			1190-1330 Rhyolite qtz porphyry, white, leucocratic,	
			with ~15% dacite chips cont. to 1210m.	
			Fine sugary texture	
1300			1340-1360 Mafic dike, andesite ? med. gray aphanitic	
			~½ aplite or rhy. chips 1345-1360	
			few large chlorite xls	
			1360-2396 Aplite or rhy. dike, leucocratic, white,	
1400			with few large chlorite xls, qtz xl. chips.	
			Zones of mafic dike chips, large ep. xls.	
			Cuttings are ≤ 1mm, smaller than rock grain size	
			therefore rock texture can not be determined	
1500			Feldspars that can be identified in cuttings are plag.	
			but some K feldspars may be present.	
1600			Sulfide is chalcopyrite	

DRILL HOLE MEAGER CREEK MCG-3 PAGE 3 OF 5

ALTERATION 1. WEAK 2. MOD. 3. STRONG

DEPTH meters	Chlr 123	ep. 123	Qtz 123	Gypsum 123	Cal 123	Py-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./ FT. SCALE
1600									1360-2390 Qtz Diorite continued, poss. meta diorite but foliation can not be distingished in the small cuttings. Light to med grnish gray, ≥ 1mm bio → chlr. xl	
									Dacite Dike 1630-40 m.	
1700									Dacite Dike 1685-1690 m, aphanitic	
									Latitic dike 1710-15. v. light gray, blk. peppered chips.	
	Tr								Dacite Dike, alt. to sericite and calcite.	
	Tr				Tr				few dacite chips cont.	
1800	Tr					Tr				
						Tr			feldspars glassy, good cleavage	
	Tr					Tr				
	Tr					Tr				
1900	Tr					Tr			Many qtz + Feldspar chips have a crushed appearence.	
					Tr				1900-1915 crushed rock zone, some breccia chips below	
					Tr				some bio. fresh, some alt. to chlr.	
					Tr				Chlorite is more fine grain the bio. xls.	
					Tr				few rounded pk-yellow chips, probably drilling cement.	
2000									2000-2115 rock finer grain, poss. meta or crushed.	
	Tr								2035-80 cruched sulfide aggregates - poss drilling additive	
						Tr				
	Tr					Tr				
	Tr									
2100										
	Tr								Rock chips look more glassy, less crushed.	
									over half the bio. is fresh.	
2200									brecciated chips	
						Tr				
						Tr				
	Tr	Tr				Tr			Trace chalcopyrite	
	Tr	Tr				Tr				
2300		Tr				Tr				
		Tr								
			Tr	Tr		Tr			many chips have a fine grain chrushe appearence.	
									few euh. qtz crystals at 2350 m -	
					Tr	Tr			Poss. recrystallization	
2400									2390-2460 Dacite(?) with qtz phens, mafics alt. to chlr.	
						Tr				
						Tr			mixed Dacite and Diorite.	
									2460 - 2755 Diorite, qtz, fine to med. grain, Light gray.	
2500						Tr			minor Dacite chips continued, to 2500 m.	

DRILL HOLE MEAGER CREEK MCG-3 PAGE 3 OF 5

DEPTH METERS	ALTERATION (1 WEAK, 2 MOD, 3 STRONG): Chl	Ep	Ser	Montmor	Cal	Py-Cp		GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./FT SCALE
	123	123	123	123	123	123	123			

1600

1360-2590 (Siliciclrite) Continued poss. meta diorite

But foliation (s.l) not be distinguished in the small

cuttings., light to med grnish gray, ≥ 1mm bio → chl+x

Dacite Dike 1630-40m.

Dacite Dike 1685-1690m. aphanitic

1700

Latite dike 1710-15. v. light gray. blk. peppered chips

Dacite Dike, alt. to sericite and calcite.

few dacite chips cont.

1800

Feldspars glassy, good cleavage

Many qtz + feldspar chips have a crushed appearance.

1900

1900-1905 crushed rock zone, some breccia chips below

Some bio. fresh, some alt. to chl.

Chlorite is more fine grain the bio. x's.

Few rounded pk-yellow chips probably drilling cement.

2000

2000-2115 rock finer grain, poss. meta or crushed.

2035-30 crushed sulfide aggregates - poss drilling additive

2100

Rock chips look more glassy, less crushed.

Over half the bio. is fresh.

2200

brecciated chips

Trace Chalcopyrite

2300

Many chips have a fine grain crushe appearance.

few euh. qtz crystals at 2350m -

poss. recrystallization

2400

2390-2460 Dacite(?) with qtz pheno matrix alt. to [illegible]

Mixed Dacite and Diorite.

2460-2535 Diorite, qtz, fine to med grain, light gray.

Minor Dacite chips continued to 2500m

2500

DRILL HOLE MEAGER CREEK MCG-3 PAGE 4 OF 5

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG) chlr 123	ep 123	qtz 123	gypsum 123	cal. 123	py-sol 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____ FT. SCALE
2500	Tr								2460–2755 Diorite, as from 1360m, med.-light gray qtz-bio. Diorite, few 1-2mm bio flakes. ~10-15% bio or mafics, much of this fine grain bio. & feldspar or qtz after hornb?	
2600	Tr					Tr			Mafic content varies some from sample to sample	
2700	Tr								2710-2715 Dacite dike	
									Diorite	
									2755–2810 Dacite, pale grnish gray, mafic alt. chlr.	
2800									mixed ½ Diorite chips are crushed.	
									2810–3500 EOS Diorite? sheared or crushed Feldspars crushed, bio. alt. to fine chlorite resulting fine texture difficult to distinguish from dacite. crushed feldspars has surgary appearence.	
2900	Tr									
									uncrushed, large bio. xls. bio. 10-15%	
3000	Tr									
Core	Tr								Wood LCM, some of abundant bio. may be LCM. Core from 3039.7 m is exactly like cutting, except no py. bio. abundance is the same in core & cuttings 10-15%	
3100	Tr									
3200									yellow rounded clasts of fine grain. probable additive. poss. a drilling cement.	
3300	Tr								Rock very uniform and unaltered in this zone.	
3400									~⅓ dacite 3390-	

DRILL HOLE WEAGER CREEK WCG-3 PAGE 4 OF 5

DEPTH meters	ALTERATION	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN/FT SCALE
2600	Chlr, Ep, Gypsum, Cal, Py-cpy		2480–2725 Diorite from 1560 m. Med.-light gy	
			qtz-bio-Diorite — few 1–3 mm bio flakes	
			~10–15% Mafics	
			bio. & (chlor?)	
			Mafic content varies some from sample to sample	
2700				
			Dacite	
2800			2725–2810 Dacite	
			Mixed w/ Diorite chips	
			2810–2950 Dacite	
2900				
3000				
3050				
3100				
3200				
3300				
3400				

DRILL HOLE MEAGER CREEK MCG-3 PAGE 5 OF 5

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG) chl 123	ep 123	qtz 123	gypsum 123	cal. 123	py-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
3400									2810-3500 Diorite, qtz-bio, med-fine grain, w/ Dacite dikes	
									3435-40 bio. rich zone	
3500 EOS								EOS		

DRILL HOLE MEAGER CREEK MCG-3 PAGE 5 OF 5

DEPTH (Meters)	ALTERATION (1 WEAK, 2 MOD, 3 STRONG): chl	ep	qtz	sulphides	cal	K-spar		GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./FT. SCALE
3400	123	123	123	123	123	123	123		2810 - 3500 Diorite, qtz-bio med-fine grain, w/ Dacite dikes	
									3435-40 b.s. rich zone	
3500 EOS								EOS		

EARTH SCIENCE LABORATORY
LITHOLOGIC STRIP LOG

DRILL HOLE MCG-1
STATE B.C. COUNTY ______ PROJECT MEAGER CREEK
SEC. ____ TWP. ____ RGE. ____ ; LOC. ____ FNL, ____ FWL
TD ____ BOTTOM HOLE FORMATION ____ SURFACE FORMATION ____
LOGGED BY Sibbett DATE 4-2-85 SAMPLE INTERVAL(S) ____
LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐
SPUD DATE ____ COMPLETION DATE ____ DRILL SITE IN SECTION
DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV. ____
DRILLING FLUID(S) ____
REMARKS ____

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG): Chlr. / ep. / qtz / arg clay / calcite / py.	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
0–20		N.S.	0-25' No samples	
20–100	Tr		25-100 Meta Quartz Diorite, med. grain, xenomorphic bio. part alter. to chlr., very qtz rich	
100	Tr		100 - 710 Diorite, - meta qtz diorite in part. 165-195 v.f. grind cuttings coarse cuttings 195-225	
200	Tr		Diorite, poss. meta qtz Diorite in part. bio. & horn. alt. to chlorite. Plag. fairly fresh.	
300	Tr		qtz - chlr. veinlet calc. veinlet. v.f. grind 325-390	
400	Tr			
500	Tr		Few chips dk. gray andesite? dike, f. grain 515-520 (505) Dike, aplite? - rhy., leucocratic Meta Diorite continued; fine cuttings few aplite chips.	
600	Tr		less alt.	

EARTH SCIENCE LABORATORY

LITHOLOGIC STRIP LOG

DRILL HOLE MCG-1

STATE B.C. COUNTY ______ PROJECT MEAGER CREEK

SEC. ______ TWP. ______ RGE. ______ ; LOC. ______ FNL ______ FWL

TD ______ BOTTOM HOLE FORMATION ______ SURFACE FORMATION ______

LOGGED BY Sibbett DATE 4-2-85 SAMPLE INTERVAL(S) ______

LITHOLOGIC LOG CORRECTED FOR LAG YES ☐ NO ☐

SPUD DATE ______ COMPLETION DATE ______ DRILL

DEPTH DATUM KB ☐ DF ☐ GR ☐ ELEV ______ SITE IN

DRILLING FLUID(S) ______ SECTION

REMARKS ______

DEPTH	ALTERATION (1 WEAK, 2 MOD., 3 STRONG): Chl, Ep, [illegible]	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN/__FT. SCALE
0–20		N.S.	0-25' No samples	
20–100			25-100 Meta Quartz Diorite, med. grain, xenomorphic; bio. part alter. to chlr. very qtz rich	
100		N.S.	100-270 (Gneiss) - meta qtz diorite in part.	
			185-195 v.f. grind cuttings	
			coarse cuttings 195-215	
200			(Gneiss) pass meta qtz Diorite in part. bio. & horn. alt. to chlorite. Plag. fairly fresh.	
300			qtz - chlr. veinlet, calc. veinlet. v.f. grind 335-390	
400				
500			Few chips dk. gray andesite? dike. f. grain	
			515-520 (505) Dike. aplite?-rhy. leucocratic	
			No Gneiss(?) mixed, fine cuttings	
			Few aplite chips.	
600			[illegible]	

DRILL HOLE MCG-1 MEAGER CREEK PAGE 2 OF 4

DEPTH (meters)	ALTERATION (1. WEAK 2. MOD. 3. STRONG): Chlr. / ep. / qtz / 2ndy bio / Cal. / Py-cpy	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./___FT. SCALE
600	ep. Tr		~100-710 Meta Quartz Diorite, ep, hornb, qtz	
	ep. Tr		cuttings smaller than grain size.	
	2ndy bio Tr			
			670-680 Poss. felsite dike	
	Chlr. Tr, ep. Tr		Meta Diorite Continued.	
700			710-805 Felsite dike - leucocratic. pale yellow-wh.	
	Chlr. Tr, Py-cpy Tr		fine grain phaneritic, some gneiss chips mix.	
60	Chlr. Tr		abundant sheet mica (phlogopite?) LCM.	
	Chlr. Tr		euh. py. xls, some chalcopyrite. poss. other sulfides.	
800			805-815m Diorite or meta-diorite, anh. hornb, abund qtz	
			820-835 Felsite - wh. to Fe stain, leucocratic	
	2ndy bio Tr		835-850 Andesite dike, dk grn. gray, alt. Plag xls	
	Py-cpy Tr		850-885 Felsite-aplite, pale yel, leucocratic.	
			885-915 Meta Diorite hornb, qtz, v. f. cuttings	
900			915-970 Felsite-aplite, with chalcopy. leucocratic	
	Chlr. Tr		light cream color, 955-960 dk mixed? zone	
			970-1015 Meta Diorite w/ intermix felsite, coarser grain	
			, minor cpy, v. light gray.	
1000	Py-cpy Tr		parting 990-995. leucocratic felsite	
	Chlr. Tr		1015-1030 Poss. Dike cuttings smaller than grain size.	
	Chlr. Tr		1030-1385 Meta Diorite, qtz rich, minor bio. alt to chlr.	
	Chlr. Tr		heterogeneous meta dio, grnish white	
			uncertain about lithology due to small cuttings	
1100			xenomorphic, bio. alt to chlr.	
	Py-cpy Tr		1170-1185 hornblende zone,	
	Py-cpy Tr		Hornb.	
1200				
			hornb. rich zone 1260-1285	
1300			1290-1300 Leucocratitic zone, poss. aplite dike	
			Meta Quartz Diorite continues.	
			some of the sulfides are cpy	
			Leucocratic zone 1330-1350, poss. dikes inter mixed.	
			Leucocratic zones 1355-1365,	
1400			1385-1425 Leucocratic Felsite Dike, qtz pheno.	
			white surgary looking unit.	
			1425-1450 Quartz vein, mixed sulfides. ~1/3 felsite	
			~1450-1800 Felsite Dike? with some qtz vein mixed.	
			Silicified felsite with diorite inclutions or partings	
1500			Abundant sulfides (mostly py) indicate strong mineralization.	

DEPTH	ALTERATION (1 WEAK, 2 MOD., 3 STRONG)	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./___FT. SCALE
600			~700-710 Gneiss to meta Dioritoid ? Cuttings smaller than grain size.	
			670-680 poss. felsite dike	
			Meta Gneiss continued	
700 [redacted]			710-805 Felsite dike - leucocratic. pale yellow-white, fine grain phaneritic, some gneiss chips mix. abundant sheet mica (phlogopite?) & Cal? wh-gy. Kf, some chalcopyrite, poss other sulfides.	
800			805-815 Gneiss or meta-diorite, and hornb. abundant	
			820-835 Felsite - wh to Fe stain, leucocratic	
			835-850 Andesite dike, dk gre gray, alt. Plag xls	
			850-885 Felsite - aplite, pale yel, leucocratic.	
			885-915 Gneiss hornb, qtz, & f cuttings	
900			915-955 Felsite - aplite, with chalcopy. leucocratic light cream color, 955-960 dk mixed ? zone	
			970-980 Gneiss poor mix with felsite. coarser grain	
1000 [redacted]			980-1030 Felsite - aplite, minor chlo. v. light gray. Gneiss cutting 990-995, leucocratic felsite	
			1030-1070 Gneiss cuttings smaller than grain size.	
			1050-1385 Meta Diorite qtz rich, minor bio. alt to chlo.	
			1070-1170 Dike, Dacitic felsite? grayish white uncertain about this dike due to small cuttings	
1100			xenomorphic, bio alt to chlo.	
			1170-1185 Hornblende zone.	
			1170-1185 Hornb. Gneiss	
			1185- Dike ? Dacite	
1200				
			hornb. rich zone 1260-1285	
			1290-1300 Leucocratic zone, poss. aplite dike	
1300			Meta Quartz Diorite continues.	
			Some of the sulfides are cpy	
			Leucocratic zone 1330-1350, poss. dikes intermixed	
			Leucocratic zones 1355-1365.	
[redacted] 1400			1385-1425 Leucocratic Felsite Dike, qtz pheno. White sugary looking unit.	
			1425-1450 Quartz vein, mixed sulfides. & Kf felsite	
			~1450-1800 Meta Diorite with some qtz vein mixed.	
			Silicified felsite with diorite inclusions or partings	
1500			Abundant sulfides (mostly py) indicate strong mineralization.	

DRILL HOLE MCG-1 MEAGER CREEK PAGE 3 OF 4

DEPTH Meter	ALTERATION (1. WEAK 2. MOD. 3. STRONG) Chlr 123	ep 123	qtz 123	2nd clay 123	cal 123	py-cpy 123	123	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
1500									1450-1800 Felsite Dike? silicified., mineralized. All Feldspars alt. to sericite, 2nd. musc. rock is ~50% quartz in thin. section. Diorite and felsite mixed 1560-1570	
1600									Silicified rock continued, 1660- minor chlorite & dark minerals increase with depth.	
1700									Poss. silicified dacite, but alt. and fine chip size prevents picking a contact.	
1800									1800-1895 Dacitic, alt, fine texture, silicified.	
									Felsite dike 1840-1850	
									Mixed dacite and silicic dikes 1860-1880m.	
1900									1890-2300 Leucocratic Felsite Dike, silicified Light yel-brn. Extent of silicification uncertain Coarse phalogopite (mica) probably LCM.	
2000									Poss. qtz vein 2060-2065.	
2100									Dacite interval 2175-2180	
2200									Dacitic interval 2225-2235	
2300									2300-2340 Diorite? medium grn.-gray, abund. mafics bio, hornb? bio. and pyroxene? qtz & Feldsp.	
									2340-2370 Diabase? more mafic rich unit.	
									2370-2570 Diorite, med. gray-grn, bio. + pyx? Diabase dike 2380-2385	
2400										

DRILLING TIME MIN./FT. SCALE	LITHOLOGIC DESCRIPTION	GRAPHIC LITHOLOGY	ALTERATION	DEPTH IN FEET
	1490-1800 Felsite dike? silicified, [illegible] [illegible] [illegible] [illegible] [illegible] 1560-1[illegible]			
	Silicified rock continues.			1600
	1640- [illegible]			
				1700
	Poss. silicified dacite, but silt and fine chip size prevents picking a contact.			
	1800-1835 Dacitic alt. fine texture, silicified.			1800
	Felsite dike 1840-1850			
	Mixed dacite and felsite dikes 1850-1890			
	1890-2390 Leucocratic felsite dikes, silicified, light gray-tan. Extent of silicification uncertain. [illegible] photographs [illegible] probably 1 CM			1900
				2000
	Poss. qtz vein 2060-2065			
				2100
	Dacite interval 2175-2180			
				2200
	Dacite interval 2225-2235			
				2300
	2320-2340 Diorite? medium grn-gray, altered mafics, [illegible] bio and pyroxene? qtz & feldspar.			
	2340-2370 Diabase? fine mafic [illegible]			
	2370-2392 Diabase and grey-grn [illegible]			
	Dacite dike 2380-2385			2400

DRILL HOLE *MCG-1 MEAGER CREEK* PAGE *4* OF *4*

DEPTH meters	ALTERATION (1. WEAK 2. MOD. 3. STRONG): chlr., ep, qtz, Cal, py-cpy (1 2 3)	GRAPHIC LITHOLOGY	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN./____FT. SCALE
2400	chlr: Tr		2370 – 2570 Diorite, poss. Monz, bio. and pyrox. mafic dikes at 2405-10 and 2435-40 m.	
2500				
2120			2570 – 2685 Mafic unit, grnish-gray, as dikes above.	
2600	chlr: Tr, Tr, Tr			
2205			2685 – 2735 Dioritic or Monz. unit as above.	
2700			2735 – 2745 silicic dike	
			2745 – 2755 Mafic Dike	
			2755 – 2830 Dioritic or Monz. unit as above. mafic dike 2795-2800	
2800			2830 – TD Monzonite? grades to more silic, less mafic	
2900			? Mixed with silicic dikes (?) 2890 - 2915.	
3000			Mafic dike 2980 - 300	
		TD		

DRILL HOLE MCG-1 MEAGER CREEK PAGE 4 OF 4

DEPTH	ALTERATION (1 WEAK, 2 MOD, 3 STRONG)	LITHOLOGY GRAPHIC	LITHOLOGIC DESCRIPTION	DRILLING TIME MIN/FT SCALE
2400			2390-2570 Diorite, poss. Monz., bio and pyrox.	
			Mafic dikes at 2405-10 and 2435-40 m.	
2500				
8150			2570-2685 Mafic unit, greenish-gray, as dikes above.	
2600				
8200			2685-2735 Diorite or Monz. unit as above.	
2700			2735-2745 Silicic dike	
			2745-2755 Mafic Dike	
			2755-2830 Diorite or Monz. unit as above	
			Mafic dike 2795-2800	
2800			2830-TD Monzonite? grades to more silic, less mafic	
2900			Mixed with silicic dikes (?) 2890-2915.	
3000			Mafic dike 2980-300	
		TD		

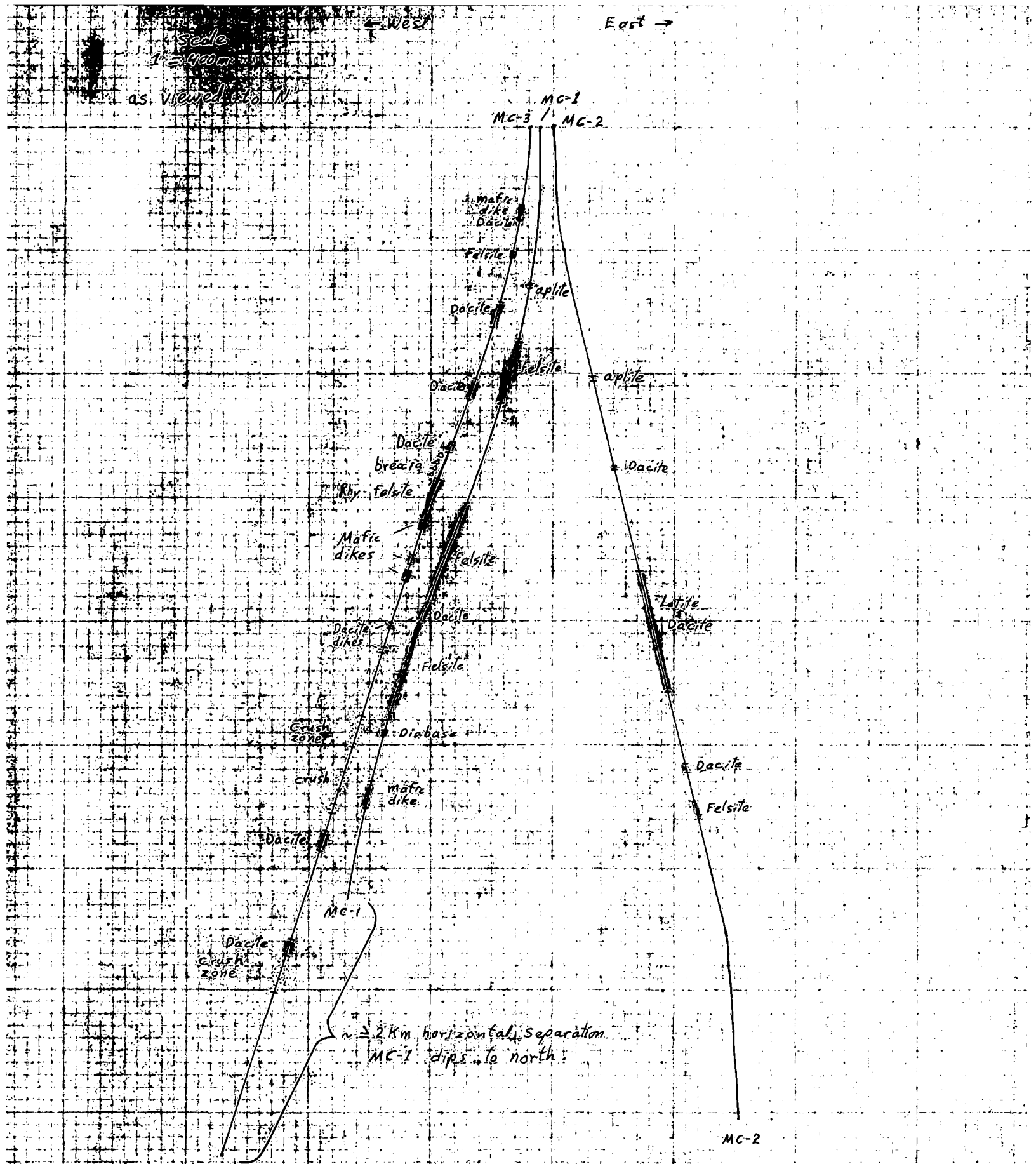


Figure ... Plot of dike intercepts in 3 deep holes at Meager Creek.