PROJECT _____ PAGE _____

D.D.H. No. CG-12 SCALE _____ BY L.C.A.

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizm	Alteration	Structure	Rock Type		CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
3/3.5					1600				
4/4									
3.5/3.5					1608-1611 APLITE - WHITE - WELL DEVEL APLITIC TEX. INTENSE SER - SP LIM/CAL. 1610	1605	1615	70	30
3.5/3.5					1611-1695				
3.5/3.5					QTZ MONZ - GRAYISH OR. PINK.				
4.5/4.5					1620 10R 8/2 V HAZY MED GRAINED GRANITIC TEX. NEARLY ALL FELDS ARE STRONGLY SER BUT NOTE OCCASIONAL CLEAR K-SPAR.	1615	1625	105	95
5/5					FRACS & UNITS CARRY MOD GRAYISH				
5/5					1630 RED EARTHY HEM 5R 4/2 AS WELL AS V. SP BLACK LIM/CC.	1625	1635	80	135
3.5/3.5									
5/5					1640 NO REAL CU MINERALS.	1635	1645	80	130
5/5									
5/5					1650	1645	1655	55	160
5/5									
4.5/5					1660	1655	1665	45	85
5/5									
5/5					1670	1665	1675	70	290
5/5									
4.5/4.5					1680	1675	1685	40	120
5/5									
4.5/4.7					1690	1685	1695	35	130
5/5					1695-1841				
					1700 GRANITE - GRAYISH OR. PINK 10R 8/2	1695	1705	30	140

0 0 0

0.5/9 x100 = 6

1.4/9 x100 = 16

0.4/8.5 x100 = 5

5.6/8.5 x100 = 66

5.9/10 x100 = 59

4.8/8 x100 = 60

7.9/9.5 x100 = 83

6.8/8.5 x100 = 80

3-23-76 + 1.0

PROJECT _____ PAGE 6

D.D.H. No. CG-12 SCALE 1"=10' BY L. C. A.

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type		CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
					1700				
5.9/9.5 x100 = 62					MED GRAINED GRANOBLASTIC TEX. K-SPAR ± 60% RK VOL. PLAG ± 20% " " QTZ ± 20% " "				
5.6/9.5 x100 = 59	LEACH CAP				1710	1705	1715	40	120
6.5/7.5 x100 = 87					ALL FELDSPARS V. STRONGLY SERICITIZED. ROCK CUT BY ADUN VEINLETS & MICRO VEINLETS WHICH CARRY STRONG EARTHY HEM DUSKY RED 5R 3/4. ALSO NOTE				
7.2/8.5 x100 = 85					1720	1715	1725	45	115
					± ½% DISSEM HEM/CC DISSEM & VERY FINE GRAINED.				
8.1/9 x100 = 90					1730	1725	1735	50	105
					VEINLET SELVAGES IF PRESENT ARE DIFFUSE — BARELY DISCERNABLE.				
					1740	1735	1745	55	120
6.1/10 x100 = 61									
	LEACH CAP				1750	1745	1755	55	180
7.2/9 x100 = 80									
					1760	1755	1765	40	230
2.5/9.5 x100 = 79									
					1770	1765	1775	55	410
6.5/9 x100 = 72									
					1780	1775	1785	50	220
8.5/10 x100 = 85									
					1790	1785	1795	55	300
5.3/9.5 x100 = 56									
					1800	1795	1805	45	330

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D.D.H. No. CC-12 SCALE _____ BY L.C.A

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizm	Alteration	Structure	Rock Type
10/10				
9.5/9.5				
10/10	Leached Capp			
10/10				
10/10				
10/10			DD	
7/7.5				
10/10				
7.5/7.5	Leached Capp			
10/10				
10/10				
10/10				

1800
1810
1820
1830
1840
1850
1860
1870
1880
1890
1900

1841-1851 GRANITE. GRAYISH OR PINK.

10R 8/2 - MED GR GRANITE TEX LOCALLY PORPHYRITIC.

ALL FELDSPARS INTENSELY SER. ROCK CARRIES STRONG BRIGHT HEM-HEM-CUPRITE (?) IN FRACS & VEINS.

STRONGEST VEINS HAVE SELVAGES TO 1/2" ON EITHER SIDE.

FIRST RECOG. GREEN CA OR THIS SECTION.

CORE ASSAYS					
INTERVAL		MINERAL			
FROM	TO	Cu	Mo		
1805	1815	50	360		
1815	1825	45	210		
1825	1835	55	240		
1835					

4.8/9 x100 = 53

7.9/8 x100 = 99

7.8/10 x100 = 78

7.9/10 x100 = 79

5.8/9 x100 = 64

3-24-76
+5.25

5.7/9.5 x100 = 60

4.4/9.5 x100 = 46

3.3/9 x100 = 37

4.4/9.5 x100 = 46

6.2/9.5 x100 = 65

5.6/8 x100 = 70

PROJECT _____ PAGE 10

D.D.H. No. CG-12 SCALE _____ BY LCA

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type
8/9	TRACE CHALC			
10/10				
10/10	TRACE MAL.			
10/10				
6/6				
10/10				
9.5/9.5				
9/10	ANT-HEM-CHL?			
5/6				
10/10				
10/10	Spilled Box			

6.2/9.5 x100 = 65

11.8/10 x100 = 118

3.9/9 x100 = 41

4.4/8 x100 = 55

3.9/9 x100 = 43

6.1/9 x100 = 68

4.3/9 x100 = 48 (4.0?)

7.8/9.5 x100 = 82

3.5/9 x100 = 39

5.0/9.5 x100 = 53

3.8/9 x100 = 42

1900

1910 FIRST GRN Cu Ox

1920

1930

1940

1950

1951-2077

GRANITE - WHITE ON FRESH SURFACE TO YEL. GRAY ON CORE 5Y 7/2 - LACKS TEX BUT MAY REPRESENT DETERIORATION OF MED. GRAINED GRANITIC TEX. ALL FELDSPARS ARE INTENSELY SERICITIZED. ROCK CARRIES STRONG BRIGHT RED EARTHY HEM AFTER SOME DISSEM MINERAL BRIGHT COLOR SUGGESTIVE CUPRITE.

ALSO PRESENT IS MOD-ST EMERALD GREEN XLINE MINERAL - CHALCOPHYLLITE (?) AS FRAC & OPEN SPACE FILLING

EST Cu GRADE 0.5-1.0%

1960

1970

1980

1990

2000

CORE ASSAYS

INTERVAL FROM	INTERVAL TO	MINERAL Cu	MINERAL Mo		
1955	1965	1.84	135	1.65	
1965	1975	1.92	180	1.76	
1975	1985	1.07	360	1.02	
1985	1995	0.95	155	0.90	
1995	2005	1.46	140	1.29	

PROJECT _____ PAGE 11
D.D.H. No. CQ-12 SCALE _____ BY L.C.A.
CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralzn	Alteration	Structure	Rock Type	Depth	CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo	
					2000					
5.9/9 x100 = 66	10/10									
7.8/9 x100 = 87					2010	2005	2015	1.64	110	1.36
	10/10									
5.6/9.5 x100 = 59					2020	2015	2025	1.52	175	1.45
	10/10									
6.9/9 x100 = 77		ANT (?) - HEM - CUP			2030	2025	2035	4.65	145	4.45
	10/10									
8/10 x100 = 80					2040	2035	245	3.35	110	3.07
	10/10									
8.0/9.5 x100 = 84					2050	2045	2055	0.40	120	0.40
	10/10									
8.5/9 x100 = 94					2060	2055	2065	0.26	205	0.24
	10/10									
6.4/10 x100 = 64		ANT HEM CUP			2070	2065	2075	1.42	70	1.32
	10/10									
7.9/9 x100 = 88					2080	2075	2085	0.34	380	0.30
5.3/9 x100 = 59	10/10									
3-22-76					2090	2085	2095	0.22	175	0.04
9/9 x100 = 100	9/9				2100	2095	2105	0.76	155	0.10

2077-2084 DIABASE - MED GRAY NS - FINE GRAINED DIAB. TEX. FELDS LATHS CLOUDED MATRIX IS V.F.G & DARK - PROBABLY CHLORITIC. DIAB CUT BY 1/4-1/2 FRACS CARRY LIM/PY-CPY-CC @ 2084' NOTE INC GRANITE IN DIAB.

2084-2091

GRANITE do 1951-2077

TOP OF C.C. ZONE.

2091 -

GRANITE - PALE PINK - SRP 8/2 - HAZY MED GRAINED GRANITIC TEX. EST 40% K-SPAR 50% PLAG AND 10% QTZ.

PROJECT _____ PAGE _____

D.D.H. No. CG-12 SCALE _____ BY L.C.A.

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizm	Alteration	Structure	Rock Type		CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo		
					2100' ALL FELDSPARS INTENSELY SERICIT. SOME SNOW BLUISH WHITE 5B 9/1 COLOR. ROCK CARRIES MOD CHALCOCITE IN 1/8 - 1/4 VEINS AS REP OF PY.						
10/10					2110 EST REP OF PY ± 15% COMPLETE TOT SULF ± 3% Cu GRADE EST 0.8% Cu. (2117-18 1' LATITE (?) - YEL. GRAY 5Y 8/1 - APHANITIC - CARRIES ST VNLT CC.)	2105	2115	0.58	130	0.06	
10/10					2120	2115	2125	1.06	255	0.04	
10/10		K?			@ 2129 NOTE SP CLEAR K-SPAR - PINAIS. 2ND K-SPAR.						
8/8					2130	2125	2135	0.81	155	0.05	
9/9					ROCK SHOWS EFFECTS OF PARTIAL OXIDATION IN ABUN. EARTHY RED 2140 HEMATITE - SOME OF CC HAS CLEARLY BEEN LEACHED - NO SIGN Cu IN HEM. NOTE ALSO BX VNLTS - SUGGESTIVE OF NON TECTONIC ORIGIN. -	2135	2145	270	195		
10/10					2150 ROCK TEXTURE ALTHOUGH GRANITIC LOCALLY TENDS TO PORPHYRITIC	2145	2155		185		
10/10					2160	2155	2165	225	175		
10/10					2170 3/4" BRECCIA VEINLET - "CORNFLAKE" FELDSPAR FRAGS IN PALE RED PURPLE 5RP 6/2 MATRIX - POSSIBLE ANHYDRITE	2165	2175	230	155		
10/10					2180	2175	2185	235	120		
7.5/8					2190 (2193-2196 - ANDESITE (?) LT. OLIVE GRAY 5Y 5/2 - V. FAINT REM. OF POR. TEX TOTAL CONVER. → CLAY CARRIES SPARSE DISSEM & VNLT CC. - APPEARS TO BE INTRUSIVE INTO GRANITE	2185	2195				
					2200	2195	2205				

24/10 x10 = 84

9.3/10 x10 = 93

88/10 x10 = 88

8.2/10 x10 = 82

7.9/9 x10 = 88

8.7/10 x10 = 87

7.5/10 = 75

7.2/10 = 72

5.7/9 x10 = 63

7.0/9 x10 = 78

5.6/10 = 56

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D.D.H. No. CG-12 SCALE _____ BY L.C.A.

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type		CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
10/10					2200 NOTE INC. OF APHAN @ 2194 & V. NARROW CLAY STRINGER @ 2198 & 2199				
10/10					2210	2205	2215	155	150
10/10					2220	2215	2225	140	205
9/9.5					GRAVITATIONAL CONTACT. PROB. PASSIVE / INTENSIVE 2220-2246.5 BIO QTZ MONZ 2230 POR - GRAYISH OR. PINK 5YR 7/2 WELL DEVEL SERIATE POR TEX. ANNED PLAG & SUBHED BIO TO 1/2" SET IN APHAN GROUNDMASS. ALL FELDSPAR INTENSE SER - BIO → CHL ALSO FIERCE SHREDDY	2225	2235		135
6.5/6.5					2240 POSS 2ND BIO. ROCK ABUN CUT 1/8" VNLTS & 1/2" BX VNLTS PY-CPY-CC IN RED HEM. MATRIX. WELL DEVEL SER SELVAGES TO 1". CLASSIC PORPH MIN.	2235	2245		165
10/10					2246.5 - 2369	2245	2255		225
10/10					2250 GRANITE BRECCIA - MOD. OR. PINK - 10R 7/4 - BRECCIA TEXTURE. ALL FELDSPARS STRONGLY				
10/10					2260 SERICITIZED - ROCK IS SILICA FLOODED AND LOCALLY DEVEL. APLITIC TEX. BRECCIA VENLETS TO 1" CARRY "CORNFLAKE" FRAGMENTS IN LAV. ANHYDRITE (?) MATRIX.	2255	2265	810	745
6/9					2270 ROCK CARRIES V. ST. EARTHY RED HEM. BUT V SP COPPER MIN.	2265	2275	105	170
10/10					2280 TEXTURE SUGGESTIVE NON TECTONIC ORIGIN - NOTE WELL ROUNDED CEMENTED FRAGS ESP @ 2291'	2275	2285	130	180
10/10					2290	2285	2295	100	95
					2300	2295	2305	125	140

5.3/8 x100 = 66

6.3/10 = 63

6.6/8.5 x100 = 78

8.2/9 x100 = 91

9.0/9.5 x100 = 95

6.8/9 x100 = 76

7.3/9 x100 = 81 +6.0 3-30-76

4.1/10 x100 = 41

3.9/9 x100 = 43

4.4/10 = 44

PROJECT _____ PAGE 14

D.D.H. No. CG-12 SCALE _____ BY LCP

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type		CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
10/10					2300				
4/4.5					2310	2305	2315		95
8.5/8.5					UPPER CONTACT CARRIES 4" BX VERY TIGHT. PROB. NON TECTONIC				
					(2316-18 - DIAB. Med Grey N5 - FINE GRAINED DIABASIC TEXTURE - FELDSPAR LATHS CLOUDED NOTE CONSIDERABLE MICROCOUS MATERIAL IN F.G. GROUNDMASS. CARRIES 1% SP. LIM/SHC.)				
10/10					2320	2315	2325	1400	155
					2330	2325	2335	90	
9/9									
5/5					2340	2335	2345	75	
6/6									
5/5					2350	2345	2355	85	
					(2355 INTENSELY BRECCIATED MATERIAL STRONG GRAYISH RED 5R 4/2 COLOR)				
10/10					2360	2355	2365	110	
10/10					2370 2369-2416	2365	2375		
					Bio. Monzonite - Lt Grey N7 - WELL DEVEL SERICITE PORTEX				
10/10					2380 ANHEDRAL - SUBHEDRAL PLAG. TO 3/8" & SUBHED BIO SET IN F.G. MATRIX PLAG. THROUGHOUT ARG - BIO IS CHLITIZ	2375	2385		
6.5/6.5					RK CUT BY NUMEROUS 1/8" VNLTS				
10/10					2390 CC - SOME SPARSE RED HEM. VER. LIM. ALSO PRESENT. VNLTS MORE STRONG BLEACHED SELVAGES - CONSIST PRIN. SER	2385	2395		
					2400 THOSE NOTED AT LOWER CONTACT SHOW	2395	2405		

5.9/9 x100 = 63

2.2/8 x100 = 28

7.4/9 x100 = 82

5.5/10 x100 = 55

2.6/10 = 26

0

1.0/9 x100 = 11

2.7/7 x100 = 86

2.7/8 x100 = 34

3.2/9 = 36

2.7/9.5 = 28

7.0/9.5 = 74

PROJECT _____ PAGE _____
D.D.H. No. CG-12 SCALE _____ BY L.C.A.
CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralzn	Alteration	Structure	Rock Type	Depth	Description	CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
					2400	PARTIAL LEACHING & OXIDATION OF CC				
8.5/8.5	cc					(C2415 0.2' GRAN INC. IN BIO QTZ MONZ. BX UNIT AT QTZ MONZ				
					2410		2405	2415		
10/10						2416-2514				
					2420	BRECCIATED GRANITE -	2415	2420		
3.5/4						COLOR VARIES PALE RED PURPLE 5RP 6/2 TO MOD RED 5R4/6 AS NOTED. ORIGINAL ROCK HAD MED GRAINED GRANITIC TEX.				
3/3										
2/2										
3/3					2430	ALL FELDSPARS INTENSELY ARGILL & SERICITIZED - GRAN. TEX VERY HAZY.	2425	2435	260	
3/3						ROCK SHOWS STRONG EARTHY LIM-HEM STAIN BUT ONLY SPARSE EVID LIM/CC.				
2.5/3										
3/3					2440	(2416-31 RED)	2435	2445	130	
3.5/4.5						(2431-2448 RED PURPLE)				
3/3										
3.5/3.5					2450		2445	2455	125	
2.5/2.5						(2448-60 MOD REDDISH OR 10R4/6)				
6.5/6.5										
4/4					2460	(2460-63 RED PURPLE	2455	2465	115	
2.5/8						(2463-76 RED)				
					2470		2465	2475	105	
3.5/4						(2476-2513.5 RED PURP)				
2.5/3										
3/2.5					2480		2475	2485	110	
2.5/2.5										
2/3										
2/2										
5.5/5.5					2490		2485	2495	140	
2/2.5										
1.5/2										
					2500		2495	2505	160	

4.7/10 = 47
+3.0
3-30-76

2.7/9 = 30

0.4/9 = 4

0

1.1/8.5 = 13

0

0

0

0.4/10 = 4

1.4/9.5 = 15

0

PROJECT _____ PAGE [illegible]
D.D.H. No. CG-12 SCALE _____ BY LCA.
CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralzn	Alteration	Structure	Rock Type	Depth	CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
5/2					2500				
3/3									
3.5/4									
4/4					2510	2505	2515	115	
2/2									
5/5									
3/3					2520	2515	2525	90	
4.5/4.5									
5/5					2530	2525	2535	105	
6.5/6.5									
3.5/3.5					2540	2535	2545	125	
3.5/3.5									
3.5/3.5									
4.5/4.5					2550	2545	2555	105	
3.5/4									
4.5/5					2560				
3/3									
3.5/4									
4.5/4.5					2570				
3.5/3.5									
3/3									
1.75/2					2580				
4/4									
1/1									
2/3									
3.5/4					2590				
5/5									
					2600				

2514-2590.5

BRECCIATED GRANITE - PALE RED PURPLE 5RP 6/2 - HAZY MED GRAINED GRANITIC TEX - INTENSE TECTONIC BRECCIATION. ALL FELDSPARS STRONGLY SER. SILICIFICATION HAS PRODUCED APLITIC TEX IN CASE OF INDIVIDUAL FELDSPAR GRAINS. - ROCK HAS VERY ABRASIVE FEEL.

NOTE ONLY LOCAL BRECCIA VEINLETS.

SHORT SECTIONS SHOW V ST. TRANSPORTED YEL. OR LIM BUT V. SP. EVID LIM/SUL.

2590.5 - 2596 GRANITE - PINKISH GRAY 5YR 8/1 - FAINT GRANITIC TEX CUT BY STRONG VEINLET BRECCIAS. ALL FELDS - SER VNLTS & OPEN SPACES CARRY MOD. CHAYS; [illegible] Cu ±1%.

2596-2599 DIAB - MED LT. GRAY N6 TO LT. OLIVE GRAY 5Y 5/2 DIAB TEX FADES LOCALLY TO APHANITIC. ROCK V. ST. ARG CARRYS VNLTS CHRYS.

0
+1.5
0.9/8 = 11
1.6/8 = 20
1.6/8.5 = 19
1.0/8.5 = 12
0.9/8 = 11
0
1.5/8 = 19
0
+0.75
4-2-76
0.4/7 = 6
ST. BX DRILLING
0
4.6/11 = 42

PROJECT _____ PAGE _____

D.D.H. No. CB-12 SCALE _____ BY L.C.A

CO-OR _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralization	Alteration	Structure	Rock Type	CORE ASSAYS INTERVAL FROM	TO	MINERAL Cu	Mo
5/5								
4.5/5								
4/5								
5/5								
4/5								
4.5/5								
3/3								
4.5/4.5								
5/5								
5/5								
3/4								
2.5/2.5								
1.5/2								
5/5								
5/5								
5/5								
4.5/5								
4.5/4.5								
4.5/4.5								
5/5								
5/5								
5/5								

2600 2599-2624

GRANITE - PINKISH GRAY 5YR 8/1 -

FAINT MED GRAINED GRANITIC TEX - STRONGLY CATACLASED. ALL FELDS STRONGLY SERICITIZED. ROCK STRONGLY BROKEN & BRECCIA VEINED - CARRIES CHRYS - CC & EARTHY HEM.

NOTE THAT DIAB IS APPAR. INTRUSIVE INTO BRECCIATED GRANITE AS SHOWN @ 2600'

2624-2630½ DIABASE - MED. GRAY N5 - DIAB. TEX. PLAGIO LATHS STRONGLY CLOUDED - MATRIX V.F.G. - PROBABLY CHLOR. STR. BROKEN - SLICKENSIDED SURF V. TALCY - ROCK CARRIES VNLT & DISSEM CC. NOTE POSS EXAMP CC REP FORMER SPEC?

2630

2630½-2637½ GRANITE - V.LT. GRAY N-8. FAINT GRANITIC TEX. STRONGLY BRECC. PLAG - SER, K-SPAR SLIGHT CLOUDED VNLTS & FRACS CARRY CHRYS.

2637½ - 2659 DIAB - MED. GRAY N5 - WELL DEVEL. DIABASIC TEX - PLAG LATHS CLOUDED MATRIX VFG - CHLORITIC.

1/8" CARB. VNLTS CARRY PY - CC - COV & EARTHY RED HEM. - NOTE BARREN QTZ VNS TO 1".

LOWER CONTACT STRONGLY BRECCIATED

2650 NOTE INCLUSION GRANITE ABOUT 2" ABOVE LOWER CONTACT.

2660 2659 - 2755

GRANITE - QTZ MONZONITE - PINKISH GRAY 5YR 8/1 - V. FAINT MED. GRAINED GRANITIC TEX - STRONGLY BRECCIATED.

2670 ALL FELDS DEVELOPE STRONG SER SOME COARSER FELDSPARS IN AREAS PSEUDO PORPH TEX SHOW ANOM YELLOW-GRAY 5Y 8/1 COLOR.

2680 ROCK CARRIES LOCAL CHRYS AND SPOTTY LIM/CPY.

NOTE ABUN EXAMPLES OF BR. PIPE

2690 TEX - NONE COMPLETELY DIAGNOSTIC.

2700

CHRYS - LIM/CPY

LIM/CPY

1.6 = 16

2.7/10 = 27

1.2/10 = 12

4-5-76 +35

1.5/12 = 13

1.2/10 = 17

1.4/9 = 16

4.9/9 = 54

0.8/9.5 = 8

1.2/8.5 = 20

3.8/8.5 = 37

PROJECT _____ PAGE 18

D.D.H. No. CC-12 SCALE _____ BY L.C.A.

LOCATION _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizm	Alteration	Structure	Rock Type
5/5				
4.5/5	Chris			
5/5				
4/5	Chris			
5/5				
4.5/5				
4.5/4.5				
5/5				
5/5				
4.5/5	Hem/Chris			
4.5/5				
4/5				
4/5	Hem/Chris			
5/5				
5/5				
5/5				
4.5/5				
4/5				
2/2				
3/3				
4.5/5				

2.2/9 = .24

0.9/9.5 = 9

2.6/10 = 26

0.8/9 = 9

1.7/10.5 = 16

1.8/8 = 23

+2.5 4-8-76

4.1/10.5 x100 = 39

2.0/10.5 = 19

5.7/9 = 63

4/0/76 x3.0

0.4/10.5 = 4

2.7/8.5 = 32

2700

2710

2720

2730

2740

2750

2755-2809

2760 GRANITE - CRAVISU CR PINK. 10R 8/2 - MED GRAINED GRANITIC TEX - MOD TO STRONGLY AFFECTED BY CRACKLING & NON TECTONIC BRECCIATION

ALL FELDSPARS STRONG SERICITIZED - ROCK CARRIES ST. EARTHY RED HEM & SP. CHRIS EST Cu 0.5%.

2770

2780

2790

2800

CORE ASSAYS					
INTERVAL		MINERAL			
FROM	TO	Cu	Mo		

PROJECT _____ PAGE 19

D.D.H. No. CB-12 SCALE _____ BY LCA

LOCATION _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type

CORE ASSAYS

INTERVAL FROM	INTERVAL TO	MINERAL Cu	MINERAL Mo		

2.6/10 = 26

3.7/15.5 = 24

2.7/10.5 = 26

1.8/8 = 23

1.1/11 = 10

4-12-76 +25

0.5/11.5

2.3/11.5

4-13-76

2800

4.5/5

11/4.5

2810

2809-2881

GRANITE - GRAYISH ORANGE PINK

10R 8/2 - MED. GRAINED GRANITIC TEX - STRONGLY CRUSHED & BRECCIATED (TECTONIC)

3/3.5

4/4

0.1/2

2820

MOST FELDSPARS ARE SERICITIZED BUT NOTE OCCASIONAL CLEAR PLAG (?)

MOD. CHLY S - BLUE GRN. GREEN ON FRACS AND FRAC SURFACES.

1/2

3/3

2/3

2830

V. SPARSE RED AND YELLOW LIM APP AFTER V. SP. PY.

3.5/4

5/5

2840

4.5/5

4.5/5

2850

1/1

5/5

4/5

2860

4/5

1.5/3

2870

2/4

4/4

3/3

2880

2881-

GOUGE - DUSKY RED 3/4 - ORIGINAL COARSE GRAINED GRANITE WITH ARG-SER FELDSPARS REDUCED TO IRON STAINED GOUGE.

2890

2900

PROJECT _____ PAGE 19

D.D.H. No. CG-12 SCALE _____ BY LCA

LOCATION _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineraliztn	Alteration	Structure	Rock Type		CORE ASSAYS					
						INTERVAL		MINERAL			
						FROM	TO	Cu	Mo		
					2800						
4.5/5											
2.6/10 = 26											
4/4.5			Δ								
			Δ		2810						
3/3.5			Δ Δ		2809-2881						
			Δ Δ		GRANITE - GRAYISH ORANGE PINK						
4/4			Δ		10R 8/2 - MED. GRAINED GRANITIC TEX -						
			Δ		STRONGLY CRUSHED & BRECCIATED (TECTONIC)						
3.7/15.5 = 24			Δ								
0.1/2			Δ		2820 MOST FELDSPARS ARE SERICITIZED						
			Δ Δ		BUT NOTE OCCASIONAL CLEAR PLAG (?)						
1/2			Δ Δ		MOD. CHLS - BLUE & LT. GREEN ON FRACS						
			Δ Δ		AND FRAC SURFACES.						
3/3			Δ Δ		V. SPARSE RED AND YELLOW LIM						
2/3			Δ Δ		APP AFTER V. SP. PY.						
2.7/10.5 = 26			Δ		2830						
3.5/4			Δ								
5/5			Δ								
			Δ		2840						
1.8/8 = 23			Δ								
4.5/5			Δ								
			Δ								
4.5/5			Δ Δ								
			Δ		2850						
1.1/11 = 10			Δ Δ								
5/5			Δ Δ								
4-12-76 +2.5			Δ								
4/5			Δ Δ								
			Δ		2860						
0.5/11.5 = 4											
4/5											
1.5/3											
					2870						
2/4											
2.3/11.5 = 20											
4/4											
3/3											
					2880						
4-13-76 +0.5											
1.5/4				Δ	2881-2885						
				Δ							
1.7/16 = 11				Δ	GOUGE - DUSKY RED 3/4 - ORIGINAL						
3/5				Δ	COARSE GRAINED GRANITE WITH ARG-SER						
				Δ	FELDSPARS REDUCED TO IRON STAINED						
				Δ	2890 GOUGE.						
1.5/5				Δ	2885-2973						
				Δ	TO MED. COARSE.						
0.5/1				Δ	GRANITE - PINKISH GRAY 5YR 8/1 - MED. GRAINED						
				Δ	GRANITIC TEX - STRONGLY BROKEN						
5/5				Δ							
					2900						

PROJECT _____ PAGE 20

D.D.H. No. CG-12 SCALE _____ BY L.C.A.

LOCATION _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralizn	Alteration	Structure	Rock Type		CORE ASSAYS					
						INTERVAL		MINERAL			
						FROM	TO	Cu	Mo		

2900 PLAGIOCLASE GRAINS TEND TO BE SMALL - EUHEDRAL - SUBHEDRAL AND STRONGLY SERICITIZED K-SPAR GRAINS V. COARSE TO 1" AND CLEAR TO SLIGHTLY CLOUDED.

2910 PROBABLY 2ND K-SPAR.

NOTE ALSO APPARENT CLEAR F.G.

BIOTITE - OCCASIONALLY WITH SERICITIZED CHLORITE. - PROBABLY REPRESENTS 2ND BIO.

2920 ROCK CARRIES V. SP. CHRYS AS FRAC. FILLING ALSO Lim SUGGESTIVE OF ± 1% ORIGINAL PY-CPY.

2930

2940

2950

2960

2970

2973-2981 GRANITE. GRAYISH ORANGE PINK - MED GRAINED GRANITIC TEX - STRONGLY DEFORMED BY SHEARING.

2980 PLAGIOCLASE IS STRONGLY ARGILLIZED - K-SPAR RELATIVELY FRESH. ROCK SOMEWHAT CHERTY - PROB. SILICIFIED. CARRIES V. SP. CHRYS AND V.V. SP Lim / PY-CPY. SP. SLICKS RAKE ± 30° IN 45° DIP PLANE.

2986-89 ANDESITE - LT. BROWNISH GRAY - APHAN. INCLUDES FRAGS SUB. DIABASE - FRAGS CHL - ½% CO_3 VNLTS

2990 2989-

GRANITE - V. LT GRAY - ME - V. COARSE GRAIN TEX - DEFORMED BY SHEARING - ROCK IS ESSENTIALLY FRESH. BOTH K-SPAR & PLAG FRESH OR V. SLIGHTLY CLOUDED. CARRIES ½" MASSES OF CHLORITE W/ POSSIBLE "FRESH" CLEAR

3000 FINE GRAINED BIO. - PROBABLY 2ND BIO

CHRYS.

K ?

CHRYS

ANG. SHEARING ± SHARP ± KINK INTR. CONT.

1.4/10 = 14

0.7/10 = 7

0

4-14-76 +15

1.1/9 = 12

1.4/16 = 23

4-16-76 +0.0

3.4/22 = 15

6.4/10 = 64

4.0/13 = 31 cross

PROJECT _____ PAGE 21

D.D.H. No. CG-12 SCALE _____ BY L.C.A.

LOCATION _____ COLLAR EL _____ DATE _____

% Core Recovery	Mineralztn	Alteration	Structure	Rock Type
5/5				
5/5				

2.8 = 28
10

11-19-76 +1.5

3000 ROCK LACKS SULFIDES CARRIES V. SM MAGNETITE. FEW PRONOUNCED CHANGE TO FRESH UNMIN ROCK-

3010

3020

3030

3040

3050

3060

3070

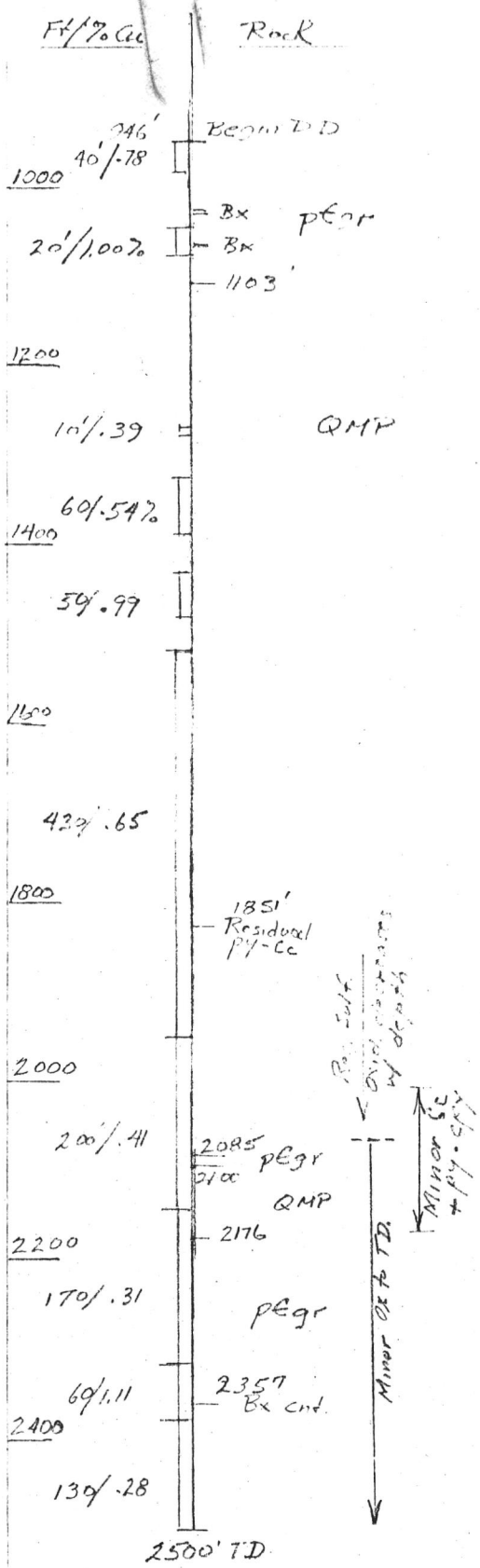
3080

3090

3100

CORE ASSAYS					
INTERVAL		MINERAL			
FROM	TO	Cu	Mo		

SUMMARY LOG LCA + JEK



JEK Notes

966-76 Mod Ser-Sch-v. Strgs of exotic chrys (but magnet haze moved fwd). Orig Sulf est 2% Some thin, brown spots hem, and goethite seams. Orig Sulf vfg, diss, plus thin seams.

1001-11 St Ser-clay. Former Sul 2-3%. Lim mostly transp, bar some ind. goeth. Some thin.

1110-20 QMP Pyritic strbl, st clay. Red from "Fog". Former sul as free filling. Mostly trans hem, some thin

1167-76 do - Transp. hem flooding

1355-64 do - Bec. Stable. Less hem. flooding. Lm on frac both trans & thin. Some chrys. Py in one hem frac.

1443-52 QMP Biot Stab. St exotic Chrys on seams & Green-stn felds. Former sulf on seams 1-2% lm brown, transp.

1647-55 QMP Biot stable. Fairly fresh to Mod clay. Evidence of former sulf manger, but prob was on thin frac. Lim Transp - brown & red Hem/goeth. No Strgs - Cu must be as oxides with the lim.

1824-33 QMP - Somewhat crushed. St clay, Hem. flooding varies st to wk. Biot → hem/lim wk pale chrys in clay. Py bx wk in red/lim seam. Cu oxides not conspic. -- assays higher than the rock looks.

1870-18 Do. Former sulf 4% as thicker seams. Bxwk/1% Tr py. Cu looking more complete locally

2000-2009 QMP Biot stable, St clay - rapid supergene. Poss Cu mixed in clay. Py seams, some opy. 2% sulf, partly ox to red stains.

2160-69 Do w/ st clay. Sulf 3%, mostly py on seams & diss. Poss. sooty Cc.

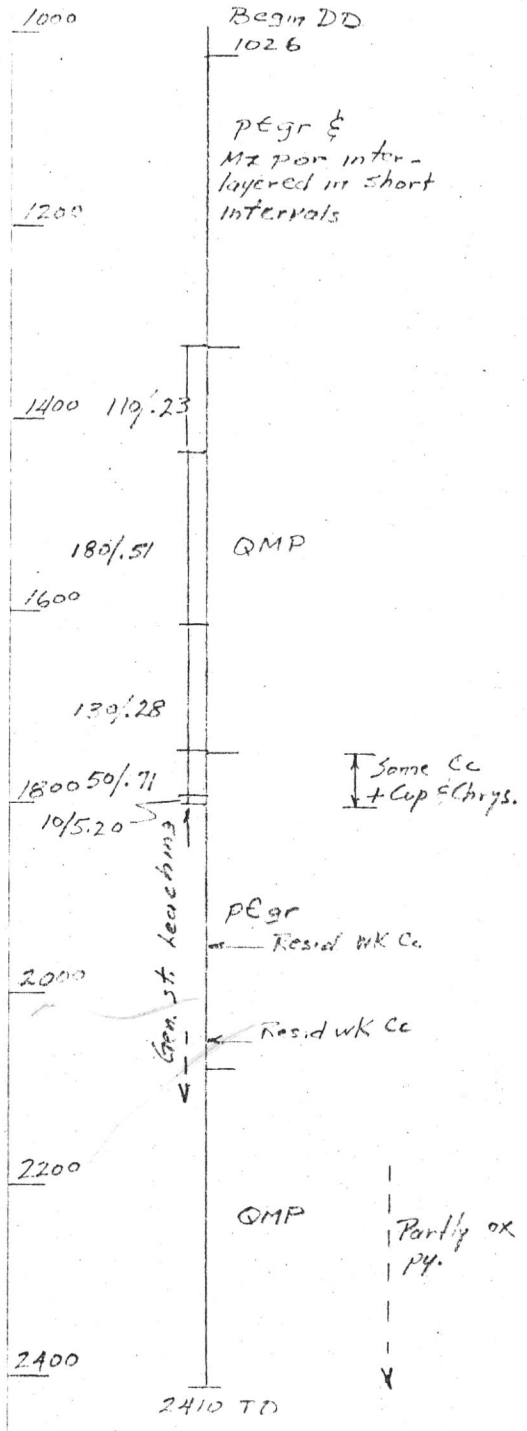
2335-45 PEgr St. Qtz-Ser, Mod clay. 2% Py mostly diss gr & fine strgs. Minor ox to 5p. Lim.

All Oxides

Mixed oxides & Sulfides

Principally primary sulfides

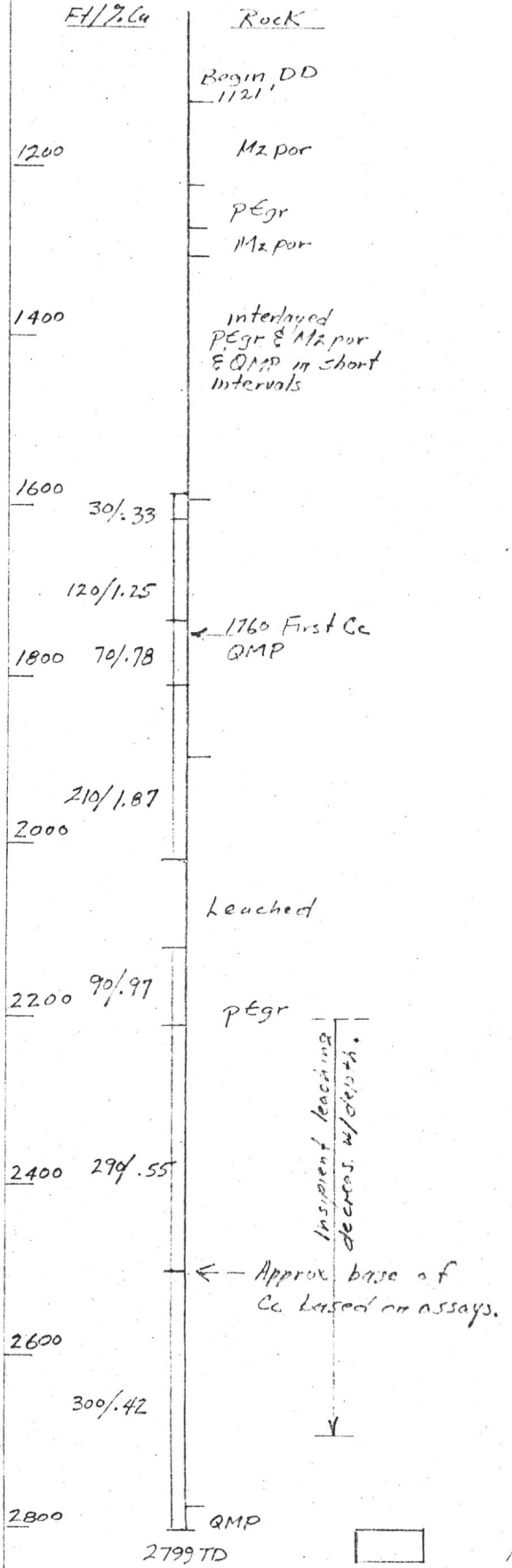
JEK Ap 76



Ft/Cu	Rock	JEK Notes
1044-55	QMP	Resid stable biot - - mostly oxid. st clay, Qtz-Ser. Lm flooding, wk Ltm. Former Sulf 2%
1188-97	pEgr	Mod clay, alt gen. wk. Former sulf 1%
1197-1207	pEgr	Mod Qtz-Ser, St. Superg. clay. Lm flooding plus Ltm. Former sulf 3%
1296-1302	Mz por.	Biot. stable + rexdil? Seams incl Lm/cpy? Former sulf 1%
1302-1305	pEgr.	St. Qtz-Ser. Transp Lm + Ltm. Former sulf 3%.
1414-22	QMP	Biot. stable. Former Sulf 1-2%. Tr chrys.
1431-39		St clay. Obscure text. Lm/py + Ltm. Form Sulf 3%
1495-1501		Biot. stable, Mod clay, Mod chrys. Form. Sulf 2%
1597-1604		Silic Bx & por. Qtz veins. Transp Lm & chrys
1692-1701		Biot. stable. Spec in irreg seams + Lm. Ltm + chrys
1788-97	pEgr.	St. supergene clay + Cc diss & veinlets Total sulf 3% Lm flooding in 99 zones.
1955-64		St Qtz-ser plus clay Trans Lm: 2% Sulf Cc on py.
2057-66		Sim. to above, more leaching. Some Cc on py, Supers. clay. Former total sulf 3%
2110-19	pEgr	Bx & silic. Mod Qtz-ser and Lm flooding. Former sulf 1-2%.
2146-54		Biot. stable. V st clay, Py veinlets partly ox to earthy hem.
2259-66		Biot. stable. Py veinlets + fine grains, partly ox. Low total sulf, 1%.

All Oxides

Mixed Oxides & Sulf



JEK Notes

Biot. stable. Transp hm on frac. Former sulf ± ½%.

Relict stable biot. in Mz. pEgr crushed & Cu/gg. General st clay and hm flooding. Former sulf up to 4%.

1380-86 QMP st clay-ser. fine hm/cc. biot. partly bleached but still present.

1437-47 QMP St. supergene clay + hm flooding. Form. sulf ± 2%.

St hm flooding in Gr & Mz, st clay. Orig Sulf ± 2%.

1598-1608 QMP. Rexfllg biot. Feld → st clay. Nil transp hm. Former sulf 1-2%

1644-53 QMP w/incl gr. Frac have red earthly hm + chrys. Tr hm as fine grains.

Biotite stable + Qtz-sericite veins. hm, red earthy hm Possible Cuprite. Occassional low-assay intervals are leached. Total Sulf Orig ± 3%. Partly ox, Cc → chrys, Cuprite.

1912-21 PEgr. Silic. Qtz stgs w/chrys + brochantite? Orig Sulf low - 1%

2022-31 Silic + ser. Resid fine gr Cc on py. Partly leach. Former Sulf 1-2%

2224-39 Mod-st ser. Irreg stgs and diss gr of Cc on py. Immature, insip leach. & ox. Produces Transp brown hm/py. Total sulf 2-3%

2348-57 Similar to above; Total sulf 4%. Insip. oxidation

2537-47 Sim. to above Mod ser, silic. Py-cpy. Total Sulf 2-3%.

2638-48 Similar to above but weaker silic. Total sulf 2% Tr. ox.

2748-51 Similar to above. No ox. Total Sulf 2%.

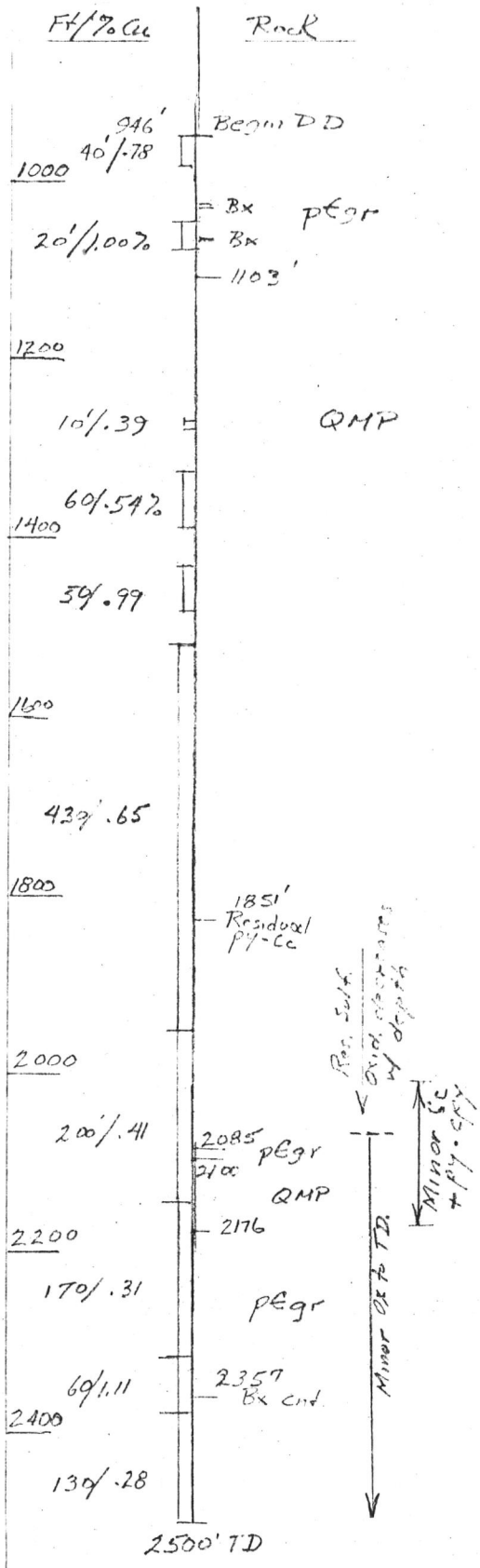
All Oxides

Mixed Oxides & Sulf

Principally primary sulf.

JEK Ap 76

SUMMARY LOG LCA+JEK



All Oxides

Mixed oxides & Sulfides

Principally primary sulfides

JEK Notes

966-76 Mod Ser/clay. Strgs of exotic chrys (but may not have moved far). Orig Sulf est 2% some Lhm, brown spots hem, and goethite seams. Orig sulf vfg, diss, plus thin seams.

1001-11 St Ser-clay. Former Sul 2-3%. Lim mostly transp, but some ind. goeth. Some Lhm.

1110-20 QMP Bistable stable. St clay. Red stem "fog". Former sul as free filling. Mostly trans hem, some Lhm

1167-76 do - Transp. hem flooding

1355-64 do - Bec. Stable. Less hem. flooding. Lm on frac both trans & Lhm. Some chrys. Py in one hem frac.

1443-52 QMP Bist. Stab. St. exotic Chrys on seams & Green-stn fld. Former sulf on seams 1-2% Lm brown, transp.

1647-55 QMP Bist stable. Fairly fresh to Mod clay. Evidence of former sulf mineral, but prob was as thin frac. Lm Transp - brown & red Hem/goeth. No chrys - Cu must be as oxides with the Lm.

1824-33 QMP - Somewhat crushed. St clay, hem. flooding varies st to wk. Bist → hem, WK pale chrys in clay. Py bx wk in red hem seam. Cu oxides not conspic -- assays higher than the rock looks.

1870-78 Do. Former sulf 4% as thicker seams. Bx wk/1% Tr. Py. Cu backing more complete locally

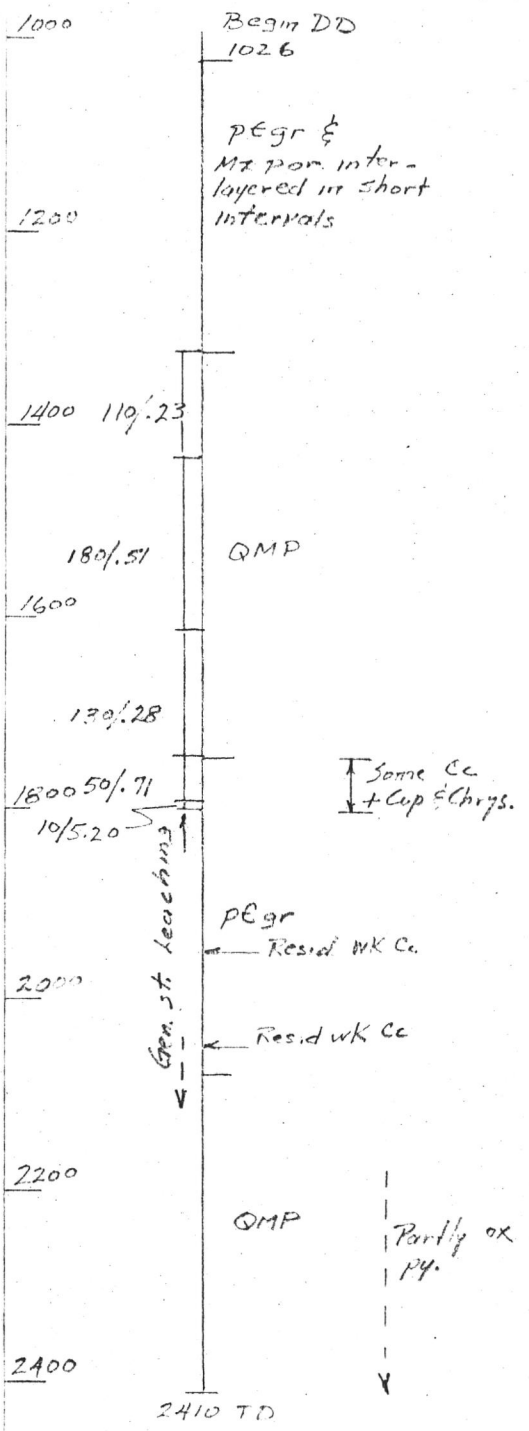
2000-2007 QMP Bist stable, St clay - prob supergene. Poss Cc mixed in clay. Py seams, some epy. 2% sulf, partly ox to red stains.

2160-69 Do w/ St clay. Sulf 3%, mostly py on seams & diss. Poss. sooty Cc.

2335-45 PEgr St Qtz-Ser, Mod clay. 2% Py mostly diss gr & fine strgs. Minor ox to Sp. Lim.

JEK Ap 76

SUMMARY LOG LCA + JEK



JEK Notes

1044-55 QMP Resid stable biot - - mostly oxid. st clay, Qtz-Ser. Lm flooding, wk Lhm. Former Sulf 2%

1188-97 pEgr Mod clay, alt gen. wk. Former sulf 1%

1197-1207 pEgr Mod Qtz-Ser, St. Supergy. clay. Lm flooding plus Lhm. Former sulf 3%

1296-1302 Mz por. Biot. stable + rextil? Seams incl Lm/cly? Former sulf 1%

1302-1305 PEgr. St. Qtz-Ser. Transp Lm + Lhm. Former Sulf 3%

1414-22 QMP Biot. stable. Former Sulf 1-2%. Tr chrys.

1431-37 St clay. Obscure text. Lm/py + Lhm. Form Sulf 3%

1495-1501 Biot. stable. Mod clay, Mod chrys. Form. Sulf 2%

1597-1604 Silic Bx & por. Qtz veins. Transp. Lm & chrys

1692-1701 Biot. stable. Spec in irreg seams + Lm. Lhm + chrys

1788-97 pEgr. St. supergene clay + Cc diss & veinlets Total sulf 3% Lm flooding in 99 zones.

1955-64 St Qtz-ser plus clay Trans Lm. 2% Sulf Cc on fy.

2057-66 Sim. to above, more leaching. Some Cc on fy, Supergy. clay. Former total sulf 3%

2110-19 pEgr ^ Bx & Silic. Mod Qtz-ser and Lm flooding. Former sulf 1-2%

2146-54 Biot. stable. V st clay, Py veinlets partly ox to earthy hem.

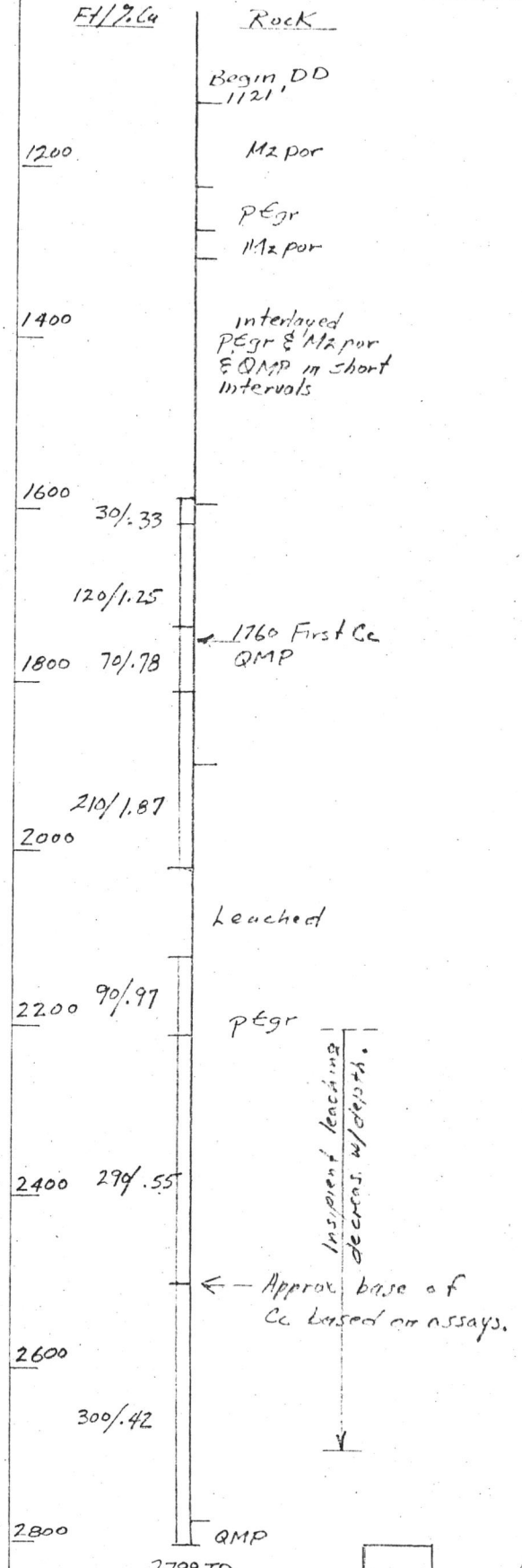
2259-66 Biot. stable. Py veinlets + fine grains, partly ox. Low total sulf, 1%.

All Oxides

Mixed Oxides & Sulf

SUMMARY LOG LCA + JEK

CG-11



JEK Notes

Biot. stable. Transp hm on frac. Former sulf ± ½%

Relict stable biot. in Mz. pEgr crushed & bx/gg. General st clay and hm flooding. Former sulf up to 4%.

1380-86 QMP st. clay-ser. fine hm/cc. biot. partly bleached but still present.

1439-47 QMP St. supergene clay + hm flooding. Form. sulf ± 2%.

St hm flooding in Gr & Mz, st clay. Orig Sulf ± 2%

1598-1608 QMP. Rexthg biot. Feld → st clay. All transp hm. Former sulf 1-2%

1644-53 QMP w/incl gr. Frac have red earthly hm + chrys. Tr hm as fine grains.

Biotite stable + Qtz-sericite veins. hm, red earthy hm Possibl Cuprite. Occassional low-assay intervals are leached. Total Sulf Orig ± 3% Partly ox, Cc → chrys, Cuprite.

1912-21 PEgr. Silic. Qtz stgs w/chrys + brochantite? Orig Sulf low - 1%

2022-31 Silic + ser. Resid fine gr Cc on py. Partly leach. Former Sulf 1-2%

2224-39 Mod-st ser. Irreg stgs and diss gr of Cc on py. Immature, insip leach. & ox. Produces Transp brown hm/py. Total sulf 2-3%

2348-57 Similar to above; Total sulf 4%. Insip. oxidation

2537-47 Sim. to above Mod ser, silic. Py-cpy. Total Sulf 2-3%.

2638-48 Similar to above but weaker silic. Total sulf 2% Tr. ox.

2748-51 Similar to above. No ox. Total Sulf 2%.

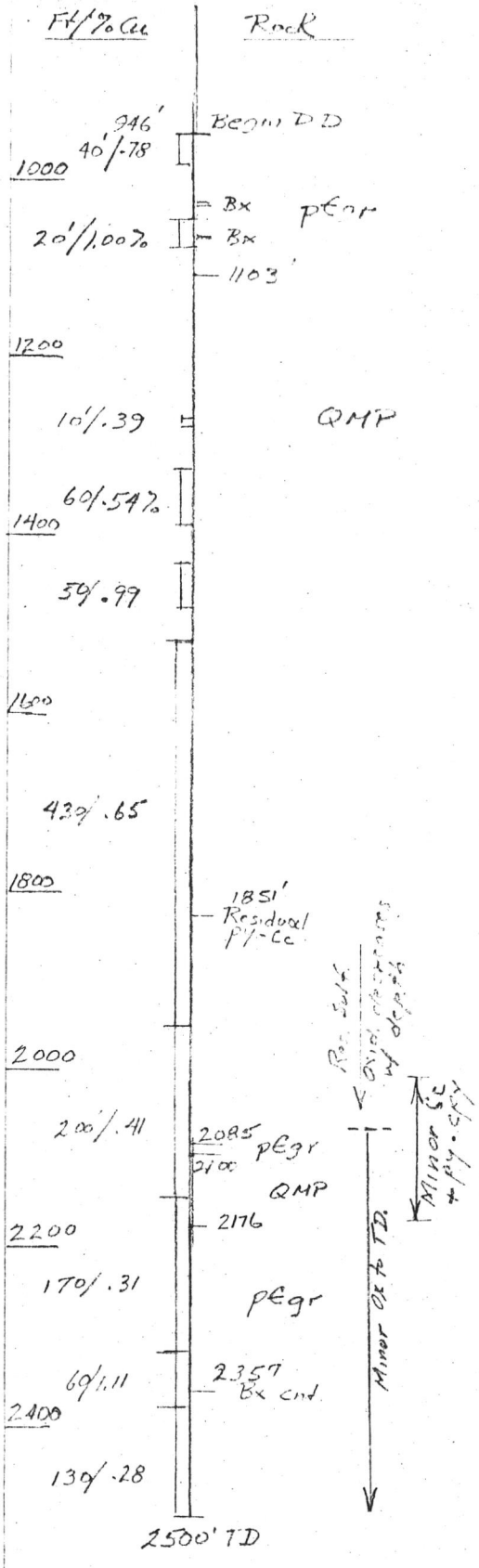
All Oxides

Mixed Oxides & Sulf

Principally primary sulf.

JEK Ap 76

SUMMARY LOG LCM + JEK



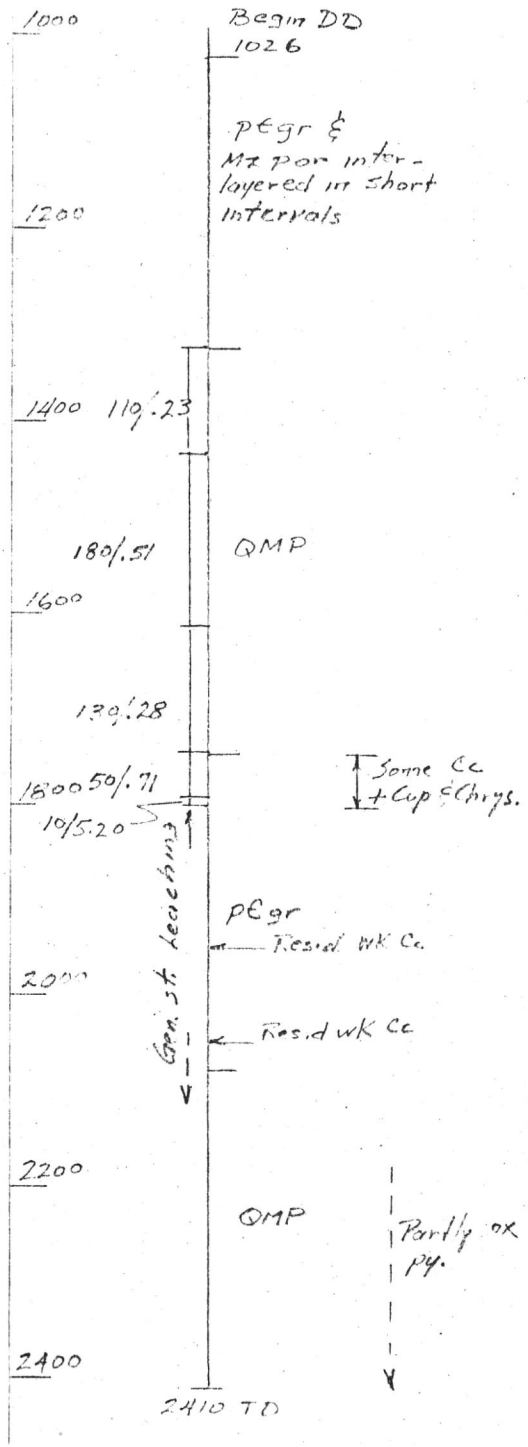
966-76	Mod Ser/clay. Strgs of exotic chrys (but maynot have moved far). Orig Sulf est 2% some Hem, brown spots hem, and goethite seams. Orig Sulf vfg, diss, plus thin seams.
1001-11	St Ser-clay. Former Sul 2-3%. Lim mostly transp, but some ind. goeth. Some Hem.
1110-20	QMP Biotite stable, st clay. Red Hem "fog". Former sul as free filling. Mostly trans hem, some Hem
1167-76	do - Transp. hem flooding
1355-64	do - Bio. Stable. less hem. flooding. Lm on frac both trans & Hem. Some chrys. Py in one hem frac.
1443-52	QMP Biot. Stab. St. exotic Chrys on seams & Green-stn felt. Former sulf on seams 1-2% Lm brown, transp.
1647-55	QMP Biot stable. Fairly fresh to Mod clay. Evidence of former sulf merger, but prob was on thin ones. Lim Transp - brown & red Nonfracable. No Chrys - Cu must be as oxides with the Lim.
1824-33	QMP - Somewhat crushed. St clay, Hem. flooding varies st to wk. Biot -> hem, wk pale chrys in clay. Py & wk in vcl/lm seam. Cu oxides not conspic -- assays higher than the rock looks.
1890-18	Do. Former sulf 4% as thicker seams. Bwk/1% To Py. Cu leaching more complete locally
2000-2007	QMP Biot Stable. St clay - prob supergene. Poss Cc mixed in clay. Py seams, some opy. 2% sulf, partly ox to red stains.
2160-69	Do w/ st clay. Sulf 3%, mostly Py on seams & diss. Poss. sooty Cc.
2335-45	PEgr St. Qtz-Ser, Mod clay. 2% Py mostly diss gr & fine strgs. Minor ox to 5p. Lim.

All Oxides

Mixed oxides & Sulfides

Principally primary sulfides

JEK Ap 76



JEK Notes

1041-55 QMP Resid stable biot - - mostly oxid. st clay, Qtz-Ser. Lm flooding, wk Lhm. Former Sulf 2%

1188-97 pEgr Mod clay, alt gen. wk. Former sulf 1%

1197-1207 pEgr Mod Qtz_2-Ser, St. Superg. clay. Lm flooding plus Lhm. Former sulf 3%

1296-1302 Mz por. Biot. stable + rest? Seams incl Lm/cpy? Former sulf 1%

1302-1305 PEgr. St. Qtz_2-Ser. Transp Lm + Lhm. Former sulf 3%.

1414-22 QMP Biot. stable. Former Sulf 1-2%. Tr chrys.

1431-39 St clay. Obscure text. Lm/py + Lhm. Form Sulf 3%

1495-1501 Biot. stable, Mod clay, Mod chrys. Form. Sulf 2%

1597-1604 Silic Bx & por. Qtz_2 veins. Transp Lm & chrys

1692-1701 Biot. stable. Spec in irreg seams + Lm. Lhm + chrys

1788-97 pEgr St. supergene clay + Cc diss & veinlets Total sulf 3% Lm flooding in 99 zones.

1955-64 St Qtz_2-ser plus clay Trans Lm. 2% Sulf Cc on py.

2057-66 Sim. to above, more leaching. Some Cc on py, Superg. clay. Former total sulf 3%

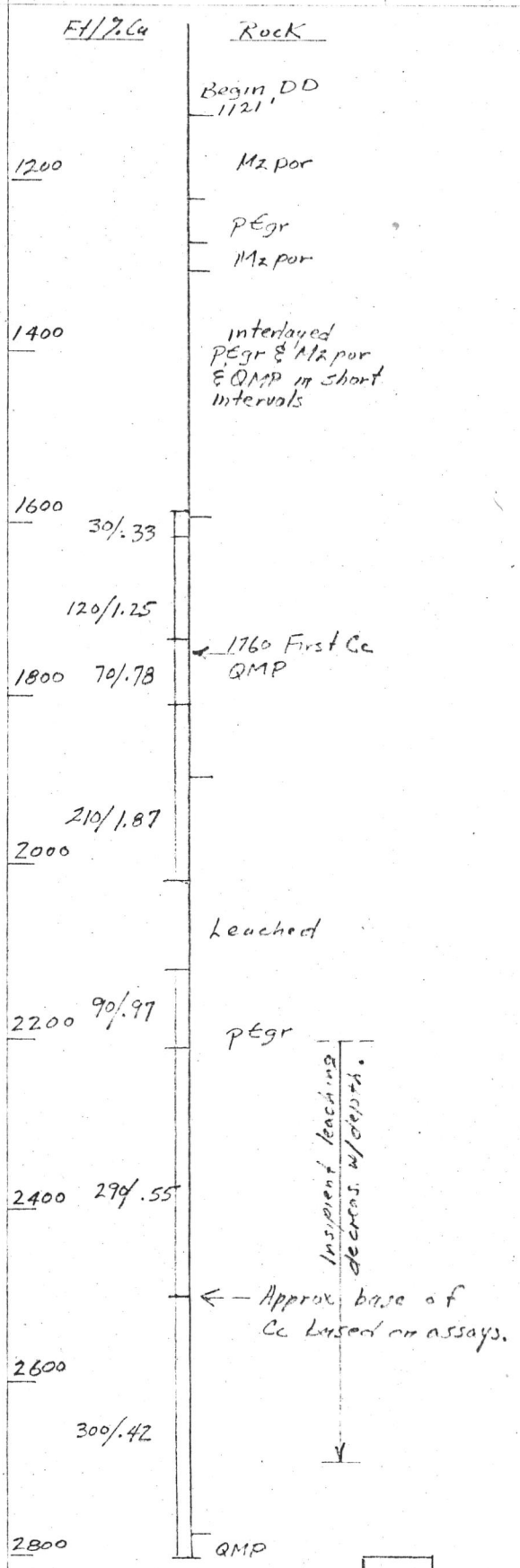
2110-19 pEgr Bx & silic. Mod Qtz_2-ser and Lm flooding. Former sulf 1-2%

2146-54 Biot. stable. V st clay, Py veinlets partly ox to earthy hem.

2259-66 Biot. stable. Py veinlets + fine grains, partly ox. Low total sulf, 1%.

SUMMARY LOG LCA + JEK

CG-11



Ft/%Cu	Rock	JEK Notes
	Begin DD 1121'	
1200	Mz por	Biot. stable. Transp Lm on frac. Former sulf ± ½%
	pЄgr	Relict stable biot. in Mz. pЄgr crushed & Bx/gg.
	Mz por	General st clay and Lim flooding. Former sulf up to 4%.
1400	interlayed pЄgr & Mz por & QMP in short intervals	1380-86 QMP st clay-ser. fine Lm/cc. biot. partly bleached but still present.
		1437-47 QMP St. supergene clay + Lm flooding. Form. sulf ± 2%.
		St Lim flooding in Gr & Mz. St clay. Orig Sulf ± 2%
1600 30/.33		1598-1608 QMP. Rextllz biot. Feld → st clay. All transp Lm. Former sulf 1-2%
120/1.25		1644-53 QMP w/incl gr. Frac have red earthly Lm + chrys. Tr LLm as fine grains.
1800 70/.78	← 1760 First Cc QMP	Biotite stable + Qtz-sericite veins. LLm, red earthy Lm Possibl Cuprite. Occassional low-assay intervals are leached. Total Sulf Orig ± 3% Partly ox, Cc → chrys, Cuprite.
210/1.87		1912-21 pЄgr. Silic. Qtz strgs w/chrys + brochantite? Orig Sulf low - 1%
2000		
	Leached	2022-31 Silic + ser. Resid fine gr Cc on py. Partly leach. former Sulf 1-2%
2200 90/.97	pЄgr	2224-39 Mod-St Ser. Irreg strgs and diss gr of Cc on py. Immature, insip leach. & ox. Produces Transp brown Lm/py. Total sulf 2-3%
2400 290/.55	Insipient leaching decreas. w/depth.	2348-57 Similar to above; Total sulf 4%. Insip. oxidation
	← Approx base of Cc based on assays.	2537-47 Sim. to above Mod Ser, silic. Py-cpy. Total Sulf 2-3%.
2600 300/.42		2638-48 Similar to above but weaker silic. Total sulf 2% Tr. ox.
		2748-51 Similar to above. No ox. Total sulf 2%.
2800	QMP	
2799 TD		

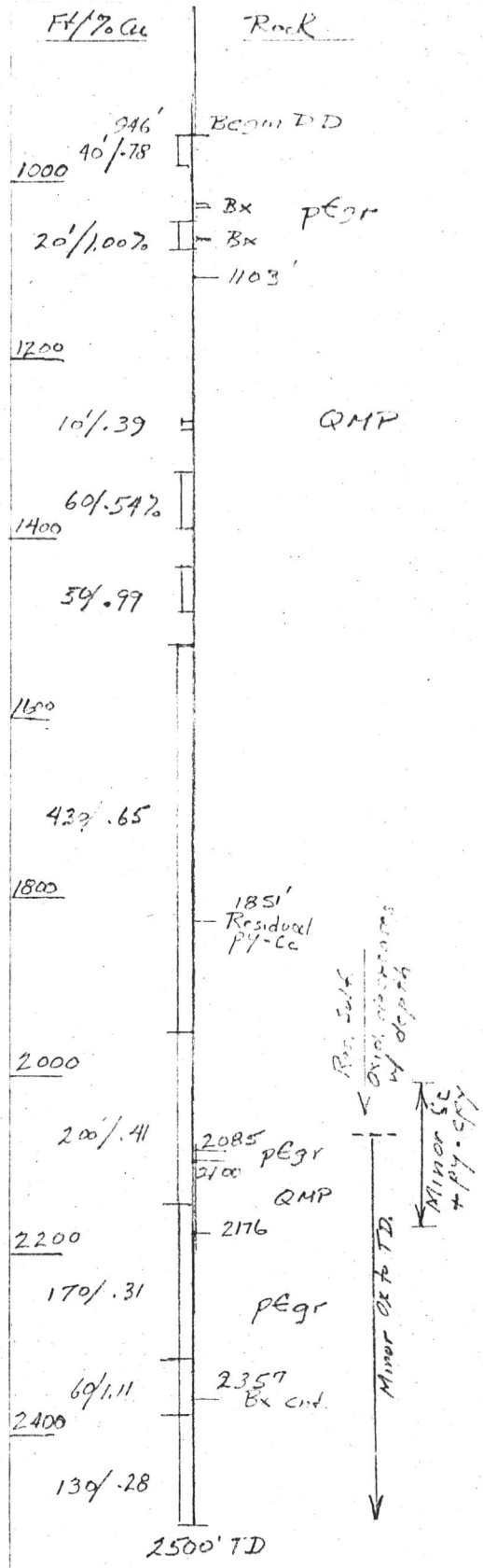
All Oxides

Mixed Oxides & sulf

Principally primary sulf.

JEK Ap 76

SUMMARY LOG LCA+JEK



Ft/% Cu	Rock	JEK Notes
946'	Begin DD	
40'/.78		966-76 Mod Ser/clay. Strgs of exotic chrys (but may not have moved far). Orig Sulf est 2% Some Lhm, brown spots hem, and goethite seams. Orig Sulf vfg, diss, plus thin seams.
1000		
	Bx pЄgr	
20'/1.00%	Bx	1001-11 St Ser-clay. Former Sul 2-3%. Lim mostly transp., but some ind. goeth. Some Lhm.
	1103'	
1200		1110-20 QMP Biotite stable, st clay. Red hem "fog". Former sul as frac filling. Mostly trans hem, some Lhm
10'/.39	QMP	1167-76 do - Transp. hem flooding
60/.54%		1355-64 do - Bio. Stable. Less hem. flooding. Lm on frac both trans & Lhm. Some chrys. Py in one hem frac.
1400		
50/.99		1443-52 QMP Biot. Stab. St. exotic Chrys on seams & Green-stn feld. Former sulf on seams 1-2% Lm brown, transp.
1600		
430/.65		1647-55 QMP Biot stable. Fairly fresh to Mod clay. Evidence of former sulf meager, but prob was on thin frac. Lim Transp - brown & red Hem/goeth. No chrys - Cu must be as oxides with the Lim.
1800		
	1851' Residual Py-Cc	1824-33 QMP - Somewhat crushed. St clay, hem. flooding varies st to wk. Biot → hem. wk pale chrys in clay. Py bx wk in red hem seam. Cu oxides not conspic -- assays higher than the rock looks.
	Res. Sulf. Oxid. decreases w/ depth	1870-78 Do. Former sulf 4% as thicker seams. Bx wk/Py. Tr. Py. Cu leaching more complete, locally
2000		2000-2007 QMP Biot stable. St clay - pido supergene. Poss Cc mixed in clay. Py seams, some cpy. 2% Sulf, partly ox to red stains.
200'/.41	2085 pЄgr	
	2100 QMP	2160-69 Do w/ st clay. Sulf 3%, mostly Py on seams & diss. Poss. sooty Cc.
2200	2176	
170'/.31	pЄgr	
60/1.11	2357 Bx cnt.	2335-45 PЄgr St. Qtz-Ser, Mod clay. 2% Py mostly diss gr & fine strgs. Minor ox to sp. Lim.
2400		
130/.28		
2500' TD		

Minor Cc + Py-cpy

Minor Ox to TD.

All Oxides

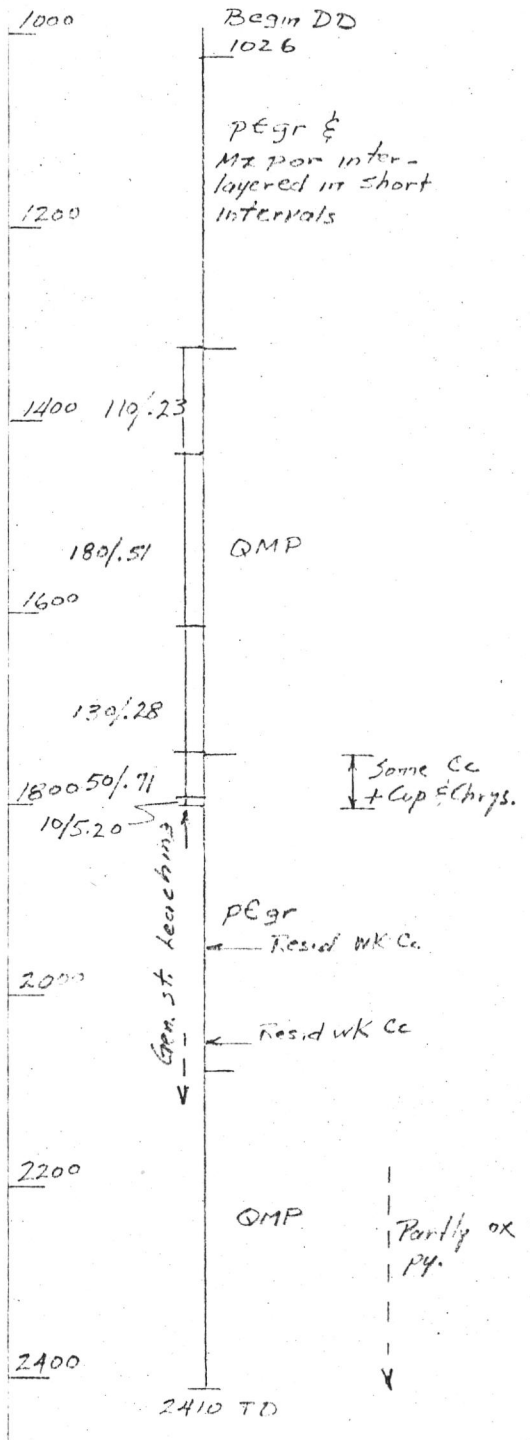
Mixed oxides & Sulfides

Principally primary sulfides

JEK Ap 76

SUMMARY LOG LCA + JEK

CG-10



Ft/Cu	Rock	JEK Notes
1000	Begin DD 1026	
	pЄgr & Mz por inter-layered in short intervals	1044-55 QMP Resid stable biot -- mostly oxid. St clay, Qtz-Ser. Lm flooding, wk Llm. Former Sulf 2%
		1188-97 pЄgr Mod clay, alt gen. wk. Former sulf 1%
1200		1197-1207 pЄgr Mod Qtz-Ser, St. Superg. clay. Lm flooding plus Llm. Former sulf 3%
		1296-1302 Mz por. Biot. stable + rextil? Seams incl Lm/cpy? Former sulf 1%
		1302-1305 PЄgr. St. Qtz-Ser. Transp Lm + Llm. Former Sulf 3%
1400	110/.23	1414-22 QMP Biot. stable. Former Sulf 1-2%. Tr chrys.
		1431-39 St clay. Obscure text. Lm/py + Llm. Form Sulf 3%
	180/.51 QMP	1495-1501 Biot. stable. Mod clay, Mod chrys. Form. Sulf 2%
1600		1597-1604 Silic Bx & por. Qtz veins. Transp. Lm & chrys
		1692-1701 Biot stable. Spec in irreg seams + Lm. Llm + chrys
	130/.28	
1800	50/.71 Some Cc + Cup & Chrys.	1788-97 pЄgr. St. supergene clay + Cc diss & veinlets Total sulf 3% Lm flooding in gg zones.
	10/5.20	
	pЄgr ← Resid wk Cc.	1955-64 St Qtz-ser plus clay Trans Lm. 2% Sulf Cc on py.
2000	Gen. st. leaching ← Resid wk Cc	2057-66 Sim. to above, more leaching. Some Cc on py, superg. clay. Former total sulf 3%
		2110-19 pЄgr Bx & silic. Mod Qtz-ser and Lm flooding. Former sulf 1-2%
2200	QMP Partly ox py.	2146-54 Biot. stable. V st clay, Py veinlets partly ox to earthy hem.
		2259-66 Biot. stable. Py veinlets + fine grains, partly ox. Low total sulf, 1%.
2400		
	2410 TD	

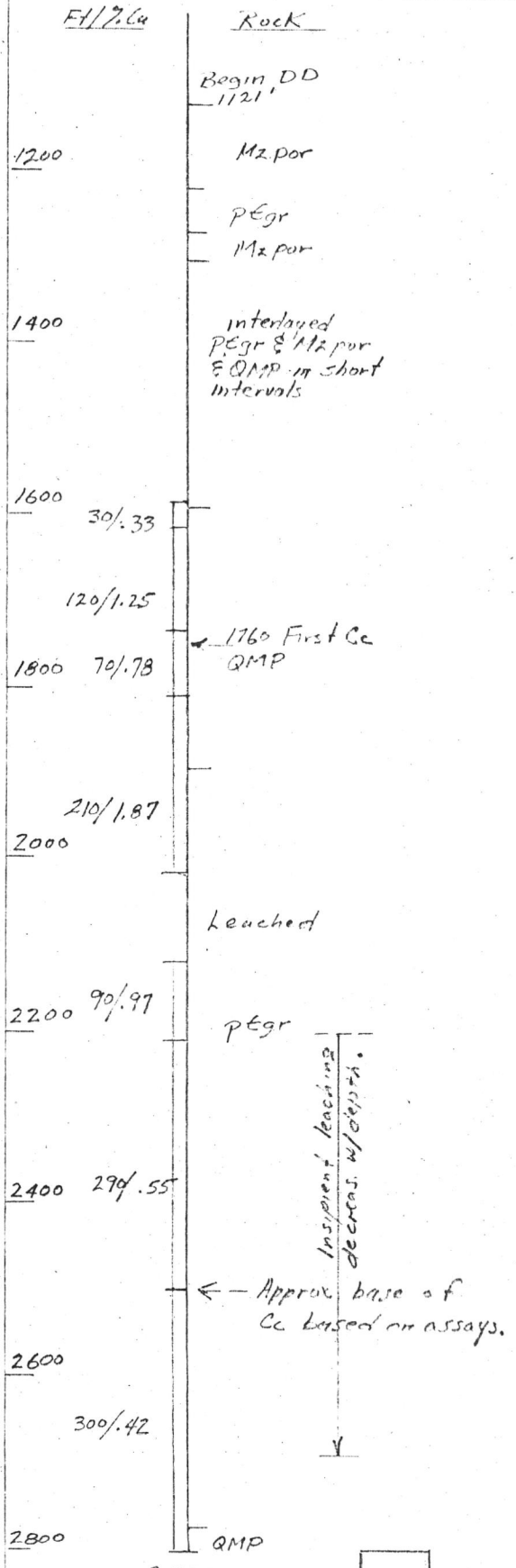
All Oxides

Mixed Oxides & Sulf

JEK Ap 76

SUMMARY LOG LCA + JEK

CG-11



Ft/% Cu	Rock	JEK Notes
	Begin DD 1121'	
1200	Mz por	Biot. stable. Transp lm on frac. Former sulf ± ½%
	pЄgr	Relict stable biot. in Mz. pЄgr crushed & Bx/gg.
	Mz por	General st clay and lm flooding. Former sulf up to 4%.
1400	interlayed pЄgr & Mz por & QMP in short intervals	1380-86 QMP st clay-ser. fine lm/cc. biot. partly bleached but still present.
		1437-47 QMP St. supergene clay + lm flooding. Form. sulf ± 2%.
		St lm flooding in Gr & Mz. St clay. Orig Sulf ± 2%
1600 30/.33		1598-1608 QMP. Rextllz biot. Feld → st clay. All transp lm. Former sulf 1-2%
120/1.25		1644-53 QMP w/incl gr. Frac have red earthly lm + chrys. Tr lhm as fine grains.
	← 1760 First Cc QMP	
1800 70/.78		Biotite stable + Qtz-sericite veins. Lhm, red earthy lm Possibl Cuprite. Occassional low-assay intervals are leached. Total Sulf Orig ± 3% Partly ox. Cc → chrys, Cuprite.
		1912-21 PЄgr. Silic. Qtz strgs w/chrys + brochantite? Orig Sulf low - 1%
210/1.87		
2000		
	Leached	2022-31 Silic + ser. Resid fine gr Cc on py. Partly leach. former Sulf 1-2%
2200 90/.97	pЄgr	2224-39 Mod-St ser. Irreg strgs and diss gr of Cc on py. Immature, insip leach. & ox. Produces Transp brown lm/py. Total sulf 2-3%
	Insipient leaching decreas. w/depth.	
2400 290/.55		2348-57 Similar to above; Total sulf 4%. Insip. oxidation
	← Approx base of Cc based on assays.	2537-47 Sim. to above Mod ser, silic. Py-cpy. Total Sulf 2-3%.
2600		
300/.42		2638-48 Similar to above but weaker silic. Total sulf 2% Tr. ox.
		2748-51 Similar to above. No ox. Total sulf 2%.
2800	QMP	
2799 TD		

All Oxides

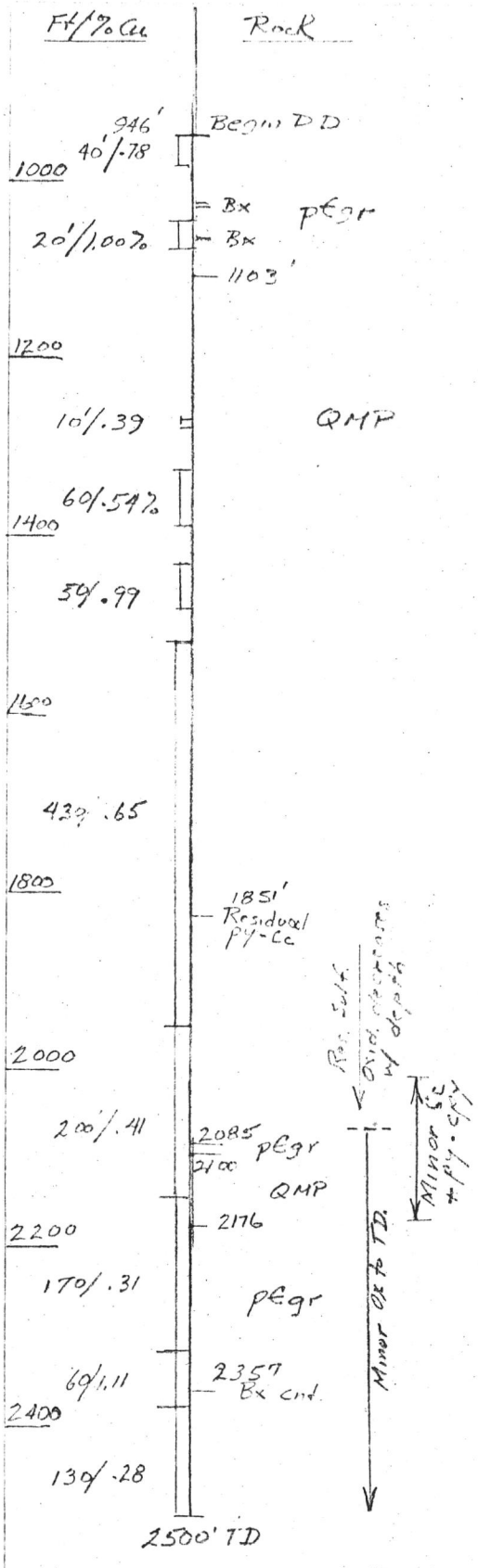
Mixed Oxides & sulf

Principally primary sulf.

JEK Ap 76

SUMMARY LOG LCA+JEK

CG-7



Ft/% Cu	Rock	JEK Notes
946' 40'/.78	Begin DD	966-76 Mod Ser/clay. Strgs of exotic chrys (but may not have moved far). Orig Sulf est 2% Some Lhm, brown spots hem, and goethite seams. Orig Sulf vfg, diss, plus thin seams.
1000		
	Bx pЄgr	
20'/1.00%	Bx	1001-11 St Ser-clay. Former Sul 2-3%. Lim mostly transp., but some ind. goeth. Some Lhm.
	1103'	
1200		1110-20 QMP Biotite stable, st clay. Red hem "fog". Former sul as frac filling. Mostly trans hem, some Lhm
10'/.39	QMP	1167-76 do - Transp. hem flooding
60/.54%		1355-64 do - Bio. Stable. Less hem. flooding. Lm on frac both trans & Lhm. Some chrys. Py in one hem frac.
1400		
50/.99		1443-52 QMP Biot Stab. St. exotic Chrys on seams & Green-stn feld. Former sulf on seams 1-2% Lm brown, transp.
1600		
439/.65		1647-55 QMP Biot stable. Fairly fresh to Mod clay. Evidence of former sulf meager, but prob was on thin frac. Lim Transp - brown & red Hem/goeth. No chrys - Cu must be as oxides with the Lim.
1800	1851' Residual Py-Cc	1824-33 QMP - Somewhat crushed. St clay, hem. flooding varies st to wk. Biot → hem. WK pale chrys in clay. Py bx wk in red hem seam. Cu oxides not conspic. -- assays higher than the rock looks.
	Res. Sulf. Oxid. decreases w/ depth	1870-78 Do. Former sulf 4% as thicker seams. Bx wk/Py. Tr. Py. Cu leaching more complete, locally
2000		2000-2007 QMP Biot stable, st clay -- prob supergene. Poss Cc mixed in clay. Py seams, some cpy. 2% sulf, partly ox to red stains.
200'/.41	2085 pЄgr 2100 QMP	2160-69 Do w/ st clay. Sulf 3%, mostly Py on seams & diss. Poss. sooty Cc.
2200	2176	
170/.31	pЄgr	
60/1.11	2357 Bx cnt.	2335-45 PЄgr St. Qtz-Ser, Mod clay. 2% Py mostly diss gr & fine strgs. Minor ox to sp. Lim.
2400		
130/.28		
2500' TD		

Minor Cc + Py-cpy

Minor Ox to TD.

All Oxides

Mixed oxides & Sulfides

Principally primary sulfides

JEK Ap 76

SUMMARY LOG LCA+JEK

CG-10

Ft/Cu	Rock	JEK Notes
1000	Begin DD 1026	
	pЄgr & Mz por interlayered in short intervals	1044-55 QMP Resid stable biot -- mostly oxid. St clay, Qtz-Ser. Lm flooding, wk LLm. Former Sulf 2%
		1188-97 pЄgr Mod clay, alt gen. wk. Former sulf 1%
1200		1197-1207 pЄgr Mod Qtz-Ser, St. Superg. clay. Lm flooding plus LLm. Former sulf 3%
		1296-1302 Mz por. Biot. stable + rextll? Seams incl Lm/cpy? Former sulf 1%
1400 110/.23		1302-1305 PЄgr. St. Qtz-Ser. Transp Lm + LLm. Former Sulf 3%
		1414-22 QMP Biot. stable. Former Sulf 1-2%. Tr chrys.
		1431-39 St clay. Obscure text. Lm/py + LLm. Form Sulf 3%
180/.51	QMP	1495-1501 Biot. stable. Mod clay, Mod chrys. Form. Sulf 2%
1600		1597-1604 Silic Bx & por. Qtz veins. Transp. Lm & chrys
		1692-1701 Biot. stable. Spec in irreg seams + Lm. LLm + chrys
130/.28		
1800 50/.71	Some Cc + Cup & Chrys.	1788-97 pЄgr. St. supergene clay + Cc diss & veinlets Total sulf 3% Lm flooding in gg zones.
10/5.20		
	pЄgr ← Resid wk Cc.	1955-64 St Qtz-ser plus clay Trans Lm: 2% Sulf Cc on py.
2000	Gen. st. leaching ← Resid wk Cc	2057-66 Sim. to above, more leaching. Some Cc on py, Superg. clay. Former total sulf 3%
		2110-19 pЄgr Bx & silic. Mod Qtz-ser and Lm flooding Former sulf 1-2%
2200	QMP Partly ox py.	2146-54 Biot. stable. V st clay, Py veinlets partly ox to earthy hem.
		2259-66 Biot. stable. Py veinlets + fine grains, partly ox. Low total sulf, 1%.
2400		
2410 TD		

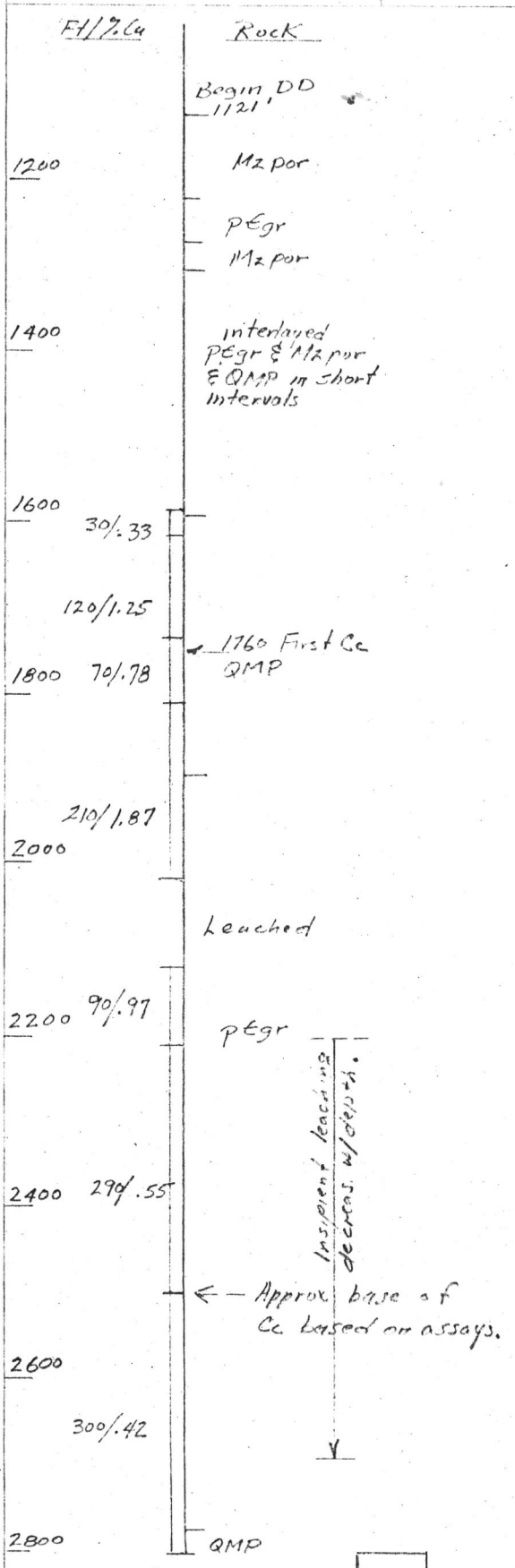
All Oxides

Mixed Oxides & Sulf

JEK Ap 76

SUMMARY LOG LCA + JEK

CG-11



Ft/% Cu	Rock	JEK Notes
	Begin DD 1121'	
1200	Mz por	Biot. stable. Transp Lm on frac. Former sulf ± ½%
	PЄgr	Relict stable biot. in Mz. PЄgr crushed & Ex/gg.
	Mz por	General st clay and Lim flooding. Former sulf up to 4%.
1400	interlayed PЄgr & Mz por & QMP in short intervals	1380-86 QMP st clay-ser. fine Lm/cc. biot. partly bleached but still present.
		1439-47 QMP St. supergene clay + Lm flooding. Form. sulf ± 2%.
		St Lim flooding in Gr & Mz, St clay. Orig Sulf ± 2%
1600 30/.33		1598-1608 QMP. Rextllz biot. Feld → st clay. All transp Lm. Former sulf 1-2%
120/1.25		1644-53 QMP w/incl gr. Frac have red earthly Lm + chrys. Tr LLm as fine grains.
	← 1760 First Cc QMP	
1800 70/.78		Biotite stable + Qtz-sericite veins. LLm, red earthy Lm Possible Cuprite. Occassional low-assay intervals are leached. Total Sulf Orig ± 3% Partly ox, Cc → chrys, Cuprite.
		1912-21 PЄgr. Silic. Qtz strgs w/chrys + brochantite? Orig Sulf low - 1%
210/1.87		
2000		
	Leached	2022-31 Silic + ser. Resid fine gr Cc on py. Partly leach. former Sulf 1-2%
2200 90/.97	PЄgr	2224-39 Mod-St Ser. Irreg strgs and diss gr of Cc on py. Immature, insip leach. & ox produces Transp brown Lm/py. Total sulf 2-3%
	Insipient leaching decreas. w/depth.	
2400 290/.55		2348-57 Similar to above; Total sulf 4%. Insip. oxidation
	← Approx base of Cc based on assays.	2537-47 Sim. to above Mod Ser, silic. Py-cpy. Total Sulf 2-3%.
2600		
300/.42		2638-48 Similar to above but weaker silic. Total sulf 2% Tr. ox.
		2748-51 Similar to above. No ox. Total sulf 2%
2800	QMP	
2799 TD		

All Oxides

Mixed Oxides & sulf

Principally primary sulf.

JEK Ap 76

42 381 50 SHEETS 5 SQUARE
42 382 100 SHEETS 5 SQUARE
42 389 200 SHEETS 5 SQUARE
NATIONAL

CAP 20-52, CASA GRANDE WEST, PRELIMINARY CROSS SECTION A-A'

CG-10 CG-11 CG-13 CG-18 CG-16

FEET 0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200

Base Ter. Sec.

Top Str. Non Exotic Cu Min.

Base of Str. Min.

Oxide Zone — chrys.

chrys-cp

Part. Leach cc., cpy

Prim. Sul

1445-1802, 360 at 0.59% 0.004% Mo

Ox. Zone ata. chrys.

ox — cc — ox

1620-2020, 400 at 1.49%, 0.01 Mo

Part. Leach. cc cpy

1620-2800, 1180 at 0.83 %

Hypogene alteration & mineralization, propylitic to argillic intensity varies significantly with lithology. Total sulfides 1-2 %.

Hypogene alteration & mineralization, argillic to phyllic, both clay & sericite well developed moderate silicification. Total sulfides 2 %.

Part. Leach. cc-cpy — ata. cup. chrys.

ox. ata. chrys. — cc cpy Part. Leach.

120' at 1.41, 0.02 Mo

670' at 1.03 %, 0.02 Mo

Hypogene alteration & mineralization, pyllic-potassic (?) well developed sericite - some secondary biotite. Total sulfides 3% py:cpy 1:1 or 2:1

Sandst. blks in Bx

"Exotic" in Bx

Base Ter. Sec.

Top Str. Non Exotic Cu Min.

140 at 1.97% Exotic

Grav. int. sug. br. slope 12° toward SE in plane of sec.

gral.

Barren Zn.

300' at 1.5 % Top of cc min.

Hypogene alteration & mineralization pyllic-potassic(?) well developed sericite-some secondary K-spar & biotite(?). Total sulfides 1% cpy:py 2:1 or 3:1.

0 100 200 300 400 FEET

l/c with live limonite

l/c

CAP AREA 20-52

Casa Grande West, Pinal County, Arizona

EXPLANATION

- ● CAP drill holes (CG & SW)
- • Asarco drill holes
- ○ Water wells, drill holes, etc.
  Geochemical samples - sample no., Cu/Mo/Zn, rock type or Cu/Mo

—1000— Bedrock contours

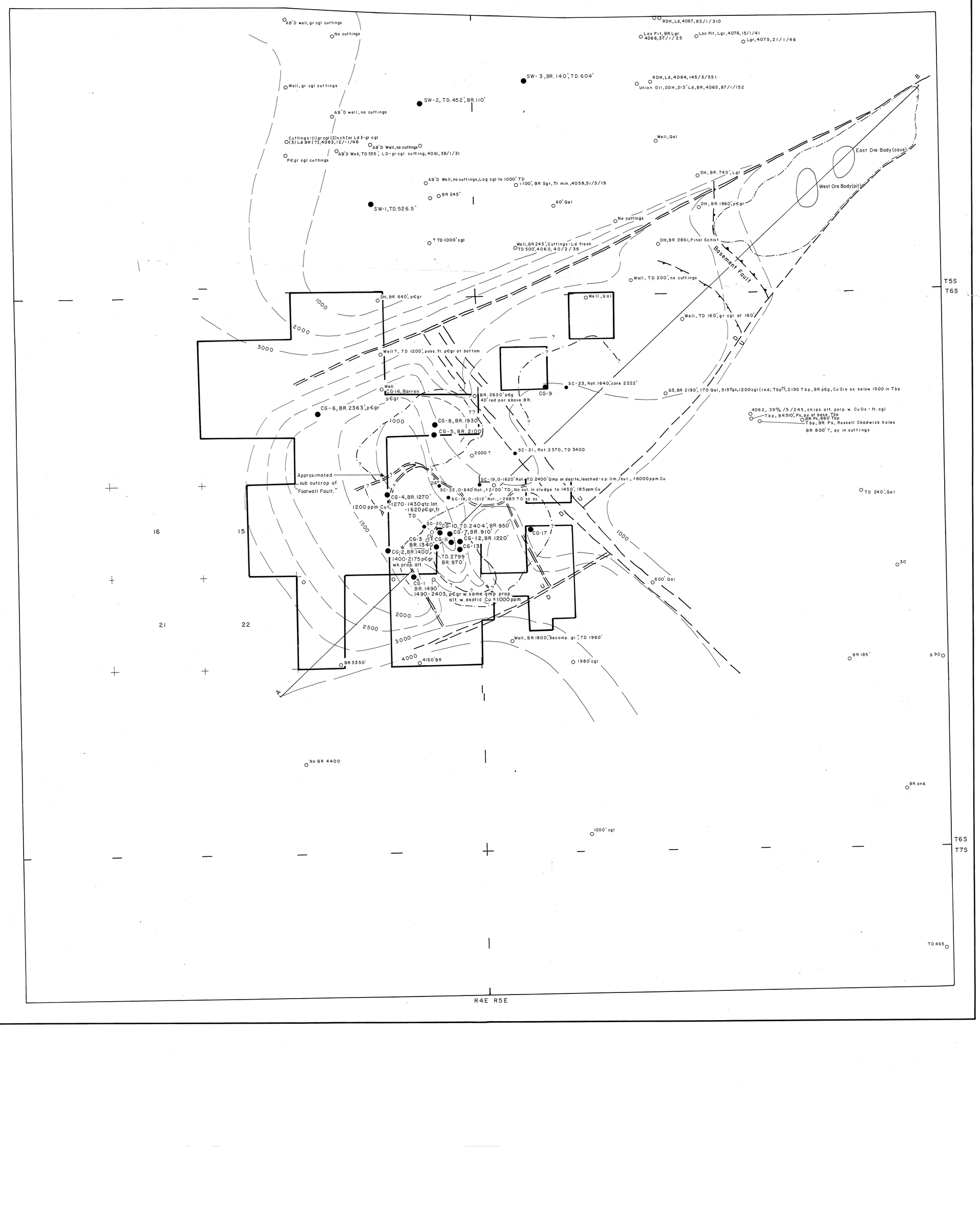
Mineralization boundaries

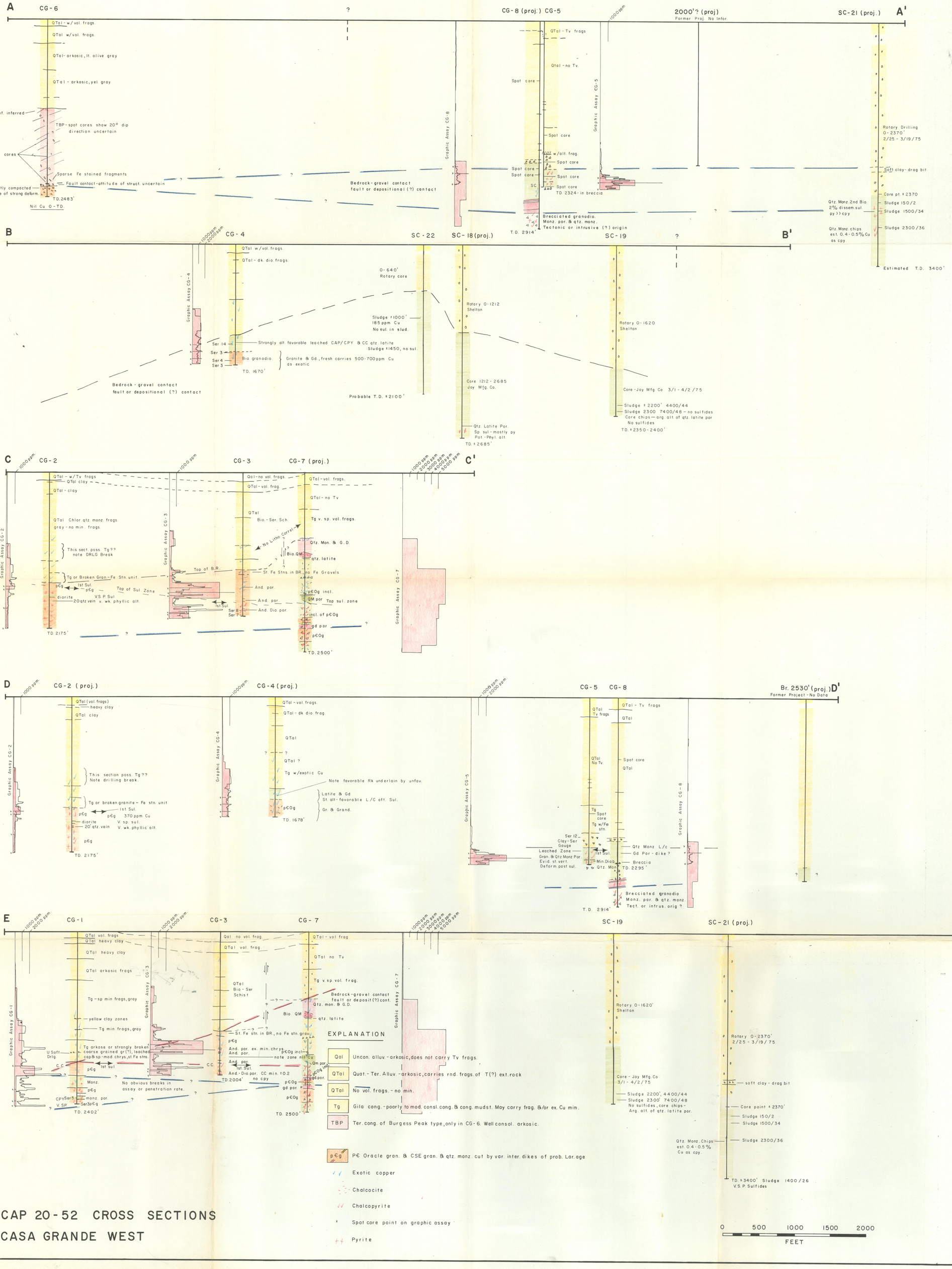
— — Strong (incl. limits of Sacaton alteration zone)

—·— Weak to moderate

— — Faults

——— CAP property outlines





CAP 20-52 CROSS SECTIONS
CASA GRANDE WEST