PROJECT Kay-Mine (K-6) Az

SUBMITTAL NO. 76-42-23

SAMPLE TYPE Core Pulp

NO. OF SAMPLES 18

DATE SUBMITTED 11-3-76

SUBMITTED BY R. Rowe

REMARKS

PROJECT NO. 3893-6

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No. K-6	ppm Ag
1840 - 1850	< 1
1850 - 1860	< 1
1860 - 1870	< 1
1870 - 1880	< 1
1880 - 1890	< 1
2013 - 2015	4
2020 - 2025	< 1
2025 - 2030	< 1
2030 - 2035	< 1
2035 - 2039	< 1
2041 - 2045	< 1
2045 - 2050	1
2050 - 2055	< 1
2055 - 2060	< 1
2060 - 2065	< 1
2065 - 2070	< 1
2070 - 2075	< 1
2075 - 2076	< 1

12/15/76

PROJECT KAY MINE

SUBMITTAL NO. 73-22-23/24/30

SAMPLE TYPE Drill Core

NO. OF SAMPLES 21

DATE SUBMITTED 9/18/73

SUBMITTED BY T. Irwin

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppm Au
1840-1850		44	25	140		
1850-1860		430	25	125		
1860-1870		30	18	90		
1870-1880		31	24	175		
1880-1890		45	41	105		
2013-2015		870	340	3000		
2020-2025		240	60	175		
2025-2030		97	30	145		
2030-2035		1220	60	155		
2035-2039		305	27	220		
2041-2045		425	33	305		
2045-2050		710	37	305		
2050-2055		105	25	210		
2055-2060		87	23	100		
2060-2065		185	30	175		
2065-2070		700	88	505		
2070-2075		40	42	275		
2075-2076.6		175	160	1080		
2135-2138		6250	1400	510	<13	<[illegible]
2169-2170.6		4240	950	8250	<5	<[illegible]
2170.6-2174		1.20%	1800	4950	<7	<[illegible]

6

PROJECT KAY MINE DDH-6

SUBMITTAL NO. 73-22-22

SAMPLE TYPE Drill Core

NO. OF SAMPLES 3

DATE SUBMITTED 9/12/73

SUBMITTED BY Tom Irwin

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	ppm Cu	ppm Mo	ppm Pb	ppm Zn	ppm Ag	ppm Au
015-2019		0.63 %	9	390	1550	5	0.29
019-2020		5.27 %	6	1330	3300	66	0.85
039-2041		0.95 %	10	160	1150	4	0.61

6

PROJECT KAY Mine DDH 6 ✓

SAMPLE TYPE Drill Core NO. OF SAMPLES 4

REMARKS

STORAGE BOX NO.

SUBMITTAL NO. 73-22-33 ✓

DATE SUBMITTED 9/21/73

SUBMITTED BY Tom Irwin

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	ppm Cu	ppm Ag	ppm Pb	ppm Zn
2220-2230	1	0.79 %	5	260	0.32 %
2230-2234	2	650	2	135	425
2234-2238	3	0.20 %	4	810	935
2238-2240.5	4	0.51 %	2	140	390

checked core screen 2240.5

6

PROJECT KAY MINE DDH 6

SAMPLE TYPE Drill Core NO. OF SAMPLES 6

REMARKS

STORAGE BOX NO.

SUBMITTAL NO. 73-22-41

DATE SUBMITTED 9/28/73

SUBMITTED BY Tom Irwin

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	ppm Cu	ppm Pb	ppm Zn	ppm Ag
2206.6-2208.6		3330	60	1350	2
2240.5-2244		840	38	525	1
2244-2246.6		1.94 %	230	630	5
2246.6-2249		280	58	560	1
2249-2254		3.84 %	540	670	15
2254-2259		4.32 %	750	645	16

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P.O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

KAY DDH 6

CERTIFICATE OF ANALYSIS

SAMPLE IDENTIFICATION	GOLD ppm	SILVER	LEAD	ZINC	COPPER	MO
Project No. 3293-6						
2206.6 - 2208.6	<0.02					
2240.5 - 2244	<0.02					
2244 - 2246.6	<0.02					
2246.6 - 2249	<0.02					
2249 - 2254	<0.02					
2254 - 2259	<0.02					

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705
Attn.: Mr. R. E. Graves

REMARKS:
Trace analysis

6 Gold (0.02 ppm) @ $2.00 6

CERTIFIED BY:

CHARGES:
PREPARATION $
ANALYSIS $ 12

ACCT.: EXXON COMPANY, U.S.A.

DATE REC'D: 10/8/73

DATE COMPL.: 10/10/73

348064

$ 12

0

6

PROJECT RAY MINE DDH 6

SUBMITTAL NO. 73- 24- 14

SAMPLE TYPE Drill Core Pulp

NO. OF SAMPLES 2

DATE SUBMITTED 10- 26- 73

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 329?

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No			ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	oz.s Ag
2259-2264					0.09		85			300			3	0.09
2264-2269					0.19		80				0.05		11	0.32

6

PROJECT KAY MINE DDH- 6

SUBMITTAL NO. 73-24-5

SAMPLE TYPE NX Drill Core Pu. NO. OF SAMPLES 2

DATE SUBMITTED 10/12/73

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	% Cu	ppm Pb	ppm Zn	ppm Ag	oz.s Ag
2305.6-2308.5		3.84	82	390	10	0.29
2310 -2316.2		3.02	145	305	10	0.29

6

PROJECT KAY MINE DDH- 6

SUBMITTAL NO. 73-24-6, 8 - 9

SAMPLE TYPE
NX Drill Core Pulp

NO. OF SAMPLES

DATE SUBMITTED 10/15/73

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3203

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No	Tube No	ppm Cu		ppm Pb	ppm Zn	ppm Ag	oz. Ag
2297.6-2300		1600		92	290	3	0.09
2300-2305.6		6250		380	375	6	0.17
2308-2310		1.10	%	48	285	4	0.12
2316.2-2317.7		1080		78	120	2	0.06
2317.7-2319.9		1.01	%	50	260	5	0.15
2326.6-2329.6		2.86	%	300	290	18	0.52
2357.1-2363.0		3650		130	275	5	0.15
2376.4-2381.6		3.87	%	860	3200	12	0.35
2319.9-2326.6		1840		58	220	3	0.09
2371.6-2376.4		2000		260	1820	5	0.15

6

PROJECT KAY MINE - DDH-6

SUBMITTAL NO. 74-28-23

SAMPLE TYPE Drill Core NO. OF SAMPLES 8

DATE SUBMITTED 3/18/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.			ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz.s Ag
2329.6-2335.0				0.09		67				0.13		5	
2335.0-2340.0			180			98				0.09		1	
2340.0-2350.0				0.12		100				0.08		3	
2350.0-2357.1				0.07		54			190			2	
2363.0-2371.6				0.08		28				0.08		2	
2381.6-2385.0			455			135				0.30		2	
2385.0-2390.0			75			200				0.06		2	
2390.0-2400.0			95			210				0.09		2	

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P.O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

KDDH #6

CERTIFICATE OF ANALYSIS

SAMPLE IDENTIFICATION	GOLD ppm	SILVER	LEAD	ZINC	COPPER	MO
2220-2230	0.07					
2230-2234	< 0.02					
2234-2238	< 0.02					
2238-2239.5	< 0.02					

TO: Exxon Company, U. S. A.
Minerals Department
1758 West Grant Road
Tucson, Arizona 85705
Attn: Mr. R. E. Graves

REMARKS:
Trace analysis
Project # 3293-6
4 Gold @ $2.00

CERTIFIED BY:

ACCT.: EXXON COMPANY, U.S.A.

DATE REC'D: 9/27/73

DATE COMPL.: 10/3/73

347995

6

PROJECT NAME - No. KAY MINE - 3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 1

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
30	40	10.0						310											
40	50							315											
50	60							290											
60	70							330											
70	80							220											
80	90							225											
90	100							210											
100	110							230											
110	120							210											
120	130							305											
130	140							225											
140	150							240											
150	160							195											
160	170							190											
170	180							210											
180	190							190											
190	200							195											
200	205	5.0						165											
205	210							175											
210	215							160											
215	220							155											
220	225							190											
225	230							180											
230	235							160											
235	240							160											
240	245							165											
245	250							150											
250	255							165											
255	260							150											
260	265							165											
265	270							170											
270	275							155											
275	280							150											
280	290	10.0						160											
290	295	5.0						145											
295	300							135											
300	305							145											
305	310							165											
310	315							150											
315	320							155											
320	325							165											
325	330							165											
330	335							160											
335	340							150											
340	345							165											
345	350							170											

PROJECT NAME - No. KAY MINE - 3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 2

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
350	355	5.0						160											
355	360							160											
360	365							145											
365	370							160											
370	375							165											
375	380							165											
380	385							155											
385	390							160											
390	395							165											
395	400							165											
400	405							200											
405	410							165											
410	415							155											
415	420							160											
420	425							165											
425	430							165											
430	435							160											
435	440							150											
440	445							150											
445	450							175											
450	455							150											
455	460 A							150											
455	460 B							195											
460	465							165											
465	470							155											
470	475							165											
475	480		SAMPLE MISSING																
480	485							185											
485	490							200											
490	495		SAMPLE MISSING																
495	500							185											
500	505							190											
505	510							215											
510	515							180											
515	520							190											
520	525							155											
525	530							155											
530	535							165											
535	540							185											
540	545							180											
545	550							210											
550	555							175											
555	560							180											
560	565							150											
565	570							150											
570	575	↓						140											

PROJECT NAME - No. KAY MINE-3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 9

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
805	810	5.0						200											
810	815							225											
815	820							155											
820	825							150											
825	830							150											
830	835							140											
835	840							155											
840	845							175											
845	850							140											
850	855		SAMPLE Missing																
855	860							150											
860	865							160											
865	870							160											
870	875							175											
875	880							175											
880	885							145											
885	890							155											
890	895							165											
895	900							160											
900	905							185											
905	910							175											
910	915							175											
915	920							165											
920	925							140											
925	930							150											
930	935							115											
935	940							115											
940	945							130											
945	950							130											
950	955							120											
955	960							140											
960	965							155											
965	970							150											
970	975							135											
975	980							150											
980	985							150											
985	990							155											
990	995							170											
995	1000							180											
1000	1005		SAMPLE Missing																
1005	1010							180											
1010	1015							180											
1015	1020							160											
1020	1025							165											
1025	1030							160											
1030	1035	↓						170											

PROJECT NAME - No. KAY MINE-3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 5

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
1035	1040	5.0						175											
1040	1045							170											
1045	1050							180											
1050	1055							190											
1055	1060							185											
1060	1065							180											
1065	1070							180											
1070	1075							160											
1075	1080		SAMPLE MISSING																
1080	1085							170											
1085	1090							175											
1090	1095							210											
1095	1100							165											
1100	1105							180											
1105	1110							165											
1110	1115							165											
1115	1120							155											
1120	1125							155											
1125	1130							160											
1130	1135							175											
1135	1140							170											
1140	1145							145											
1145	1150							165											
1150	1155							165											
1155	1160							145											
1160	1165							150											
1165	1170							165											
1170	1175							155											
1175	1180							175											
1180	1185							180											
1185	1190							175											
1190	1195							165											
1195	1200							175											
1200	1205							180											
1205	1210							175											
1210	1215							175											
1215	1220							170											
1220	1225							180											
1225	1230							155											
1230	1235							155											
1235	1240							165											
1240	1245							180											
1245	1250							135											
1250	1255							140											
1255	1260							135											
1260	1265	↓						135											

PROJECT NAME - No. KAY MINE - 3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 6

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
1265	1270	5.0						125											
1270	1275							125											
1275	1280							140											
1280	1285							150											
1285	1290							160											
1290	1295							160											
1295	1300							160											
1300	1305							165											
1305	1310							165											
1310	1315							165											
1315	1320							180											
1320	1325							165											
1325	1330							175											
1330	1335							190											
1335	1340							180											
1340	1345							185											
1345	1350							155											
1350	1355							155											
1355	1360							160											
1360	1365							180											
1365	1370							180											
1370	1375							150											
1375	1380							160											
1380	1385							165											
1385	1390							185											
1390	1395							150											
1395	1400							165											
1400	1405							180											
1405	1410							160											
1410	1415							170											
1415	1420							160											
1420	1425							155											
1425	1430							190											
1430	1435							165											
1435	1440							180											
1440	1445							170											
1445	1450							165											
1450	1455							170											
1455	1460							185											
1460	1465							165											
1465	1470							180											
1470	1475							175											
1475	1480							180											
1480	1485							150											
1485	1490							140											
1490	1495							140											
1495	1500	↓						150											

PROJECT NAME - No. KAY MINE - 3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 7

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
1800	1810	10						140		38		170		-1		.04			
1810	1820	10						104		112		218		-1					
1820	1830	10						90		40		130		-1					
1830	1840	10						60		24		108		-1		.10			
1840	1850	10						44		25		140		-1					
1850	1860	10						430		25		125		-1					
1860	1870	10						30		18		90		-1					
1870	1880	10						31		24		175		-1					
1880	1890	10						45		41		105		-1					
1890	1900	10						82		70		188		-1					
1900	1910	10						87		50		162		-1					
1910	1920	10						68		40		124		-1		.10			
1920	1930	10						205		53		210		-1					
1930	1940	10						114		55		206		-1					
1940	1950	10						135		60		273		4		.12			
1950	1960	10						36		30		120		-1					
1960	1970	10						72		20		108		-1					
1970	1980	10						67		60		255		1		.18			
1980	1990	10						110		64		226		1					
1990	2000	10						97		37		154		-1					
2000	2010	10						70		22		168		-1		.18			
2010	2013	3.0						705		133		580		4		.13			
2013	2015	2.0						870		340			.30	4		.13			
2015	2019	4.0							.63	390			.155	5		.29			
2019	2020	1.0							5.27		.133		.33	66		.85			
2020	2025	5.0						240		60		175		-1					
2025	2030	6.0						97		30		145		-1					
2030	2035	5.0							.122	60		155		-1					
2035	2039	4.0						305		27		220		-1					
2039	2041	2.0							.95	160			.115	4		.61			
2041	2045	4.0						425		33		305		-1					
2045	2050	5.0						710		37		305		1					
2050	2055	5.0						105		25		210		-1					
2055	2060	6.0						87		23		100		-1					
2060	2065	5.0						185		30		125		-1					
2065	2070	5.0						700		88		505		-1					
2070	2075	5.0						90		42		275		-1					
2075	2078.6	3.6						175		160			.108	-1					
2078.6	2080	3.4						383		115		545		-1					
2080	2085	5.0						845		530		500		-1		.20			
2085	2090	5.0							.33		.15	600		6		.31			
2090	2095	5.0							.47	83		230		1		-.02			
2095	2100	5.0						420		36		167		-1		.04			
2100	2105	5.0							.34	54		363		9		-.02			
2105	2110	5.0						330		24		92		-1		-.02			
2110	2115	5.0							.10	40		118		-1		.06			

PROJECT NAME - No. KAY MINE-3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 8

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
2115	2120	5.0						60		50		122		-1					
2120	2125	5.0							.15	250		305		5					
2125	2130	5.0						650		184		290		2		.12			
2130	2135	5.0						720		192		390		-1					
2135	2138	3.0							.625		.14	510		13		.18			
2138	2140	2.0						55		67		300		-1					
2140	2145	5.0							.38		.41	615		9		1.54			
2145	2150	5.0						150		205		353		-1					
2150	2155	5.0							.13	200		425		-1		-.02			
2155	2160	5.0						102		99		335		-1		.06			
2160	2165	5.0						26		180		320		-1					
2165	2169	4.0						360		340		615		-1					
2169	2170.6	1.6							.424	950			.825	5		.19			
2170.6	2174	3.4							.620		.18		.495	7		.12			
2174	2180	6.0						980		145		613		1		.08			
2180	2185	5.0						350		780		590		1					
2185	2190	5.0						450		620		620		2					
2190	2195	5.0							.44		.18	618		4		.48			
2195	2200	5.0						25		20		146		-1					
2200	2206.6	6.6							.72	180		217		-1		-.02			
2206.6	2208.6	2.0							.333	60			.135	2		-.02			
2208.6	2210	1.4						32		40		174		-1		.04			
2210	2215	5.0						28		15		185		-1					
2215	2220	5.0						438		25		400		-1					
2220	2230	10.0							.79	260			.32	5		.07			
2230	2234	4.0						650		135		425		2		-.02			
2234	2238	4.0							.20	810		935		4		-.02			
2238	2240.5	2.5							.61	140		390		2		-.02			
2240.5	2244	3.5						840		38		525		1		-.02			
2244	2246.6	2.6							1.94	230		630		5		-.02			
2246.6	2249	2.4						280		58		560		1		-.02			
2249	2254	5.0							3.84	540		670		15		-.02			
2254	2259	5.0							4.32	750		645		16		-.02			
2259	2264	5.0						900		85		300		3		-.02			
2264	2269	5.0							.19	80		500		11		-.02			
2269	2275	6.0							.16	75		350		-1		.04			
2275	2280	5.0						118		39		248		-1		-.02			
2280	2285	5.0							.23	55		295		1		-.02			
2285	2290	5.0							.28	96		346		3		.08			
2290	2297.6	7.6							.80	355		290		3		.05			
2297.6	2300	2.4							.16	92		290		3		1.50			
2300	2305.6	5.6							.625	380		275		6		.48			
2305.6	2308.5	2.9							3.84	82		390		10		.26			
2308.5	2310	1.5							1.10	48		285		4		-.02			
2310	2316.2	6.2							3.02	145		305		10		-.02			

PROJECT NAME - No. KAY MINE - 3293 Location Black Canyon County Yavapai State Arizona

Date Started _____ HOLE No. K-6

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 9

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
2316.2	2317.7	1.5							.108	78		120		2		-.02			
2317.7	2319.9	2.2							1.01	50		260		5		-.02			
2319.9	2326.6	6.7							.184	58		220		3		-.02			
2326.6	2329.6	3.0							2.86	300		290		18		.07			
2329.6	2335	5.4						900		67			.13	5		.29			
2335	2340	5.0						180		98		900		1		.11			
2340	2350	10.0							.12	100		800		3		.19			
2350	2357.1	7.1						700		54		190		2		-.02			
2357.1	2363	5.9							.365	130		275		5		.09			
2363	2371.6	8.6						800		28		800		2		.04			
2371.6	2376.4	4.8							.20	260			.182	5		.11			
2376.4	2381.6	5.2							3.87	860			.32	12		.55			
2381.6	2385	3.4						455		135			.30	2		.12			
2385	2390	5.0						75		200		600		2					
2390	2400	10.0						95		210		900		2					

PROJECT Kay Mine (K-6) (Ariz.)

SAMPLE TYPE Drill Core

NO. OF SAMPLES 50

REMARKS

STORAGE BOX NO.

SUBMITTAL NO. 76-42-2

DATE SUBMITTED 10-12-76

SUBMITTED BY R. G. Rowe

PROJECT NO. 3293-6

PAGE 1 OF 2 PAGES

File - Kay Mine #3293 Drilling - Hole K-6

SAMPLE CONCENTRATION

Sample No.	PPM Cu		PPM Pb		PPM Zn		PPM Ag
1800-1810	140		38		170		<1
1810-1820	104		112		218		<1
1820-1830	90		40		130		<1
1830-1840	60		24		108		<1
	—		—		—		—
1890-1900	82		70		188		<1
1900-1910	87		50		162		<1
1910-1920	68		40		124		<1
1920-1930	205		53		210		<1
1930-1940	114		55		206		<1
1940-1950	135		60		273		4
1950-1960	36		30		120		<1
1960-1970	72		20		108		<1
1970-1980	67		60		255		1
1980-1990	110		64		226		1
1990-2000	97		37		154		<1
2000-2010	70		22		168		<1
2010-2013	705		133		580		4
	—		—		—		—
2076.6-2080	383		115		545		<1
2080-2085	845		530		500		<1
2085-2090		0.33		0.15	600		6
2090-2095		0.47	83		230		1
2095-2100	420		36		167		<1
2100-2105		0.34	54		363		4
2105-2110	330		24		92		<1
2110-2115		0.10	40		118		<1
2115-2120	60		50		122		<1
2120-2125		0.15	250		305		5
2125-2130	650		184		290		2
2130-2135	720		192		340		<1
	—		—		—		—
2138-2140	55		67		300		<1
2140-2145		0.38		0.41	615		9
2145-2150	150		205		353		<1
2150-2155		0.13	200		425		<1
2155-2160	102		79		335		<1
2160-2165	26		180		320		<1
2165-2169	360		340		615		<1
	—		—		—		—
2174-2180	980		145		613		1
2180-2185	350		780		590		1
2185-2190	450		620		620		2
2190-2195		0.44		0.18	618		4
2195-2200	25		20		146		<1
2200-2206.6		0.72	180		217		<1
	—		—		—		—
2208.6-2210	32		40		174		<1
2210-2215	28		15		185		<1
2215-2220	438		25		400		<1

Marlin H. Hubbell
10-14-76

PROJECT Kay Mine (K-6) (Grid) SUBMITTAL NO. 76-42-2

SAMPLE TYPE Drill core NO. OF SAMPLES 50 DATE SUBMITTED 10-12-76

SUBMITTED BY R.G. Jones

REMARKS PROJECT NO. 3243-2

STORAGE BOX NO. PAGE 2 OF 2 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu		PPM Pb		PPM Zn		PPM Ag
2269-2275		0.16	75		350		<1
2275-2280	118		74		248		<1
2280-2285		0.23	55		285		1
2285-2290		0.28	96		346		3
2290-2297.6		0.80	355		290		3

Martin H. Hubbell
10-14-76

PROJECT NAME - No. KAY MINE-3293 Location 18N, R2E, S4 County Yavapai State Arizona

Date Started 10-22-73

Date Completed 1-5-74

HOLE No. K-7

Sheet No 1

DIAMOND DRILL ASSAY LOG

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

(131.0' ORE)

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1980	1990	10							525		120		350		1		.42	
1990	2000	10							73		12		117		-1			
2000	2010	10							70		15		86		-1			
2010	2020	10							82		46		153		-1		.16	
2020	2030	10							750		28		185		2			
2030	2040	10							47		16		130		-1			
2040	2050	10							80		43		172		-1		.12	
2050	2060	10							235		28		160		-1			
2060	2070	10							455		320		630		-1			
2070	2071	1.0								.56	255		630		3		.25	
2071	2080	9.0							80		50		159		-1			
2080	2090	10.0							350		103		380		1			
2090	2100	10.0							210		135		358		1		.32	
2100	2105	5.0							270		35		340		1		.12	
2105	2110	5.0							65		105		125		1		.04	
2110	2115	5.0							40		185		135		1		-.02	
2115	2120	5.0							85		110		120		1		.02	
2120	2125	5.0							125		190		220		2		-.02	
2125	2129.2	4.2							95		80		145		1		.03	
2129.2	2135	5.8								5.96	370			.82	440		3.78	
2135	2140	5.0	28'	2.85	.06	251	99	2.51		2.46	185			.60	9		1.38	
2140	2145	5.0								2.55		.11		.85	12		1.64	
2145	2149.1	4.1								4.14	320			.82	19		5.96	
2149.1	2152.2	3.1								.18		.15		2.70	9		.32	
2152.2	2157.2	5.0								.55	425			9.28	4		1.57	
2157.2	2161.7	4.5	32.5	2.82	.05	2.53	86	2.25		.36	120			2.62	2		.60	
2161.7	2165	3.3		5.18	Cu equiv		$62.87		20		60		160		1		.04	
2165	2170	5.0							100		370			.18	-1		.08	
2170	2175	5.0							500		125			.17	-1		.10	
2175	2180	5.0							600		50			1.07	2		.05	
2180	2185	5.0								.17	85			.51	2		.07	
2185	2190	5.0							95		15		140		-1		.06	
2190	2195	5.0							125		15		160		-1		.05	
2195	2200	5.0							120		25		290		-1		.04	
2200	2202	2.0								1.11		6.42		13.90	100		1.17	
2202	2206.4	4.4	23.6	1.04	.71	480	38	.93		.42		.49		2.36	50		.73	
2206.4	2212	5.6		4.18	Cu equiv		50.65			1.25	700			4.21	22		.77	
2212	2215.6	3.6								1.00		.23		1.93	41		1.42	
2215.6	2220	4.4								1.90	350			2.38	33		.84	
2220	2223.6	3.6								.43	390			9.50	16		.90	
2223.6	2226.6	3.0							230		420			.22	4		.22	
2226.6	2229.2	2.6								.18		.32		.64	12		1.85	
2229.2	2231.2	2.0							620			.17		1.23	7		.25	
2231.2	2235	3.8							480			.30		.49	11		.22	
2235	2240	5.0							600			.13		1.08	8		.27	
2240	2244.8	4.8								.10		.33		.44	14		.15	
2244.8	2247	2.2								.11		.24		5.91	9		1.01	

PROJECT NAME - No. KAY MINE 5253 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started 10-22-73 HOLE No. K-7

Date Completed 1-5-74 DIAMOND DRILL ASSAY LOG Sheet No. 1

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

(131.0 ORS)

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1980	1990	10							525		120		350		1		.42	
1990	2000	10							73		12		117		-1			
2000	2010	10							70		15		86		-1			
2010	2020	10							82		46		153		-1		.16	
2020	2030	10							750		28		185		2			
2030	2040	10							47		16		130		-1			
2040	2050	10							80		43		172		-1		.12	
2050	2060	10							235		28		160		-1			
2060	2070	10							455		320		630		-1			
2070	2071	1.0								.56	255		630		3		.25	
2071	2080	9.0							80		50		159		-1			
2080	2090	10.0							350		103		380		1			
2090	2100	10.0							210		135		358		1		.32	
2100	2105	5.0							270		35		340		1		.12	
2105	2110	5.0							65		105		125		1		.04	
2110	2115	5.0							40		185		135		1		-.02	
2115	2120	5.0							85		110		120		1		.02	
2120	2125	5.0							125		190		220		2		-.02	
2125	2129.2	4.2							95		80		145		1		.03	
2129.2	2135	5.8								5.96	370			.82	440		3.78	
2135	2140	5.0	28'	2.85	.06	251	99	2.51		2.46	185			.60	9		1.38	
2140	2145	5.0								2.55		.11		.85	12		1.64	
2145	2149.1	4.1								4.14	320			.82	19		5.96	
2149.1	2152.2	3.1								.18		.15		2.70	9		.32	
2152.2	2157.2	6.0								.55	425			9.28	4		1.57	
2157.2	2161.7	4.5	32.5	2.82	.05	253	86	2.25		.36	120			2.62	2		.60	
2161.7	2165	3.3		(5.18	(equiv	$62.87)			20		60		160		1		.04	
2165	2170	5.0							100		370			.18	-1		.08	
2170	2175	5.0							500		125			.17	-1		.10	
2175	2180	5.0							600		50			1.07	2		.05	
2180	2185	6.0								.17	85			.51	2		.07	
2185	2190	6.0							95		15		140		-1		.06	
2190	2195	5.0							125		15		160		-1		.05	
2195	2200	5.0							120		25		290		-1		.04	
2200	2202	2.0								1.11		6.42		13.90	100		1.17	
2202	2206.4	4.4	23.6	1.04	.71	480	38	.93		.42		.49		2.36	50		.73	
2206.4	2212	5.6		(4.18	(equiv	50.65)				1.25	700			4.21	22		.77	
2212	2215.6	3.6								1.00		.23		1.93	41		1.42	
2215.6	2220	4.4								1.90	350			2.38	33		.84	
2220	2223.6	3.6								.43	390			9.50	16		.90	
2223.6	2226.6	3.0							230		420			.22	4		.22	
2226.6	2229.2	2.6								.18		.32		.64	12		1.85	
2229.2	2231.2	2.0							620			.17		1.23	7		.25	
2231.2	2235	3.8							480			.30		.49	11		.22	
2235	2240	5.0							600			.13		1.08	8		.27	
2240	2244.8	4.8								.10		.33		.44	14		.15	
2244.8	2247	2.2								.11		.24		5.91	9		1.01	

PROJECT NAME - No. KAT MINE [illegible] Location [illegible] County [illegible] State

Date Started

Date Completed

DIAMOND DRILL ASSAY LOG

HOLE No. K-7

Sheet No 2

Coordinates , Collar Elevation Bedrock Elevation

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
2247	2251.8	4.8							800			.43		2.25	8		.71	
2251.8	2253.3	1.5	13.5	1.06	.22	185	10	.51		.63	800			.51	34		.56	
2253.3	2258.3	5.0								2.55	390		700		6		.07	
2258.3	2263	4.7								.72	205		600		4		.05	
2263	2267	4.0	44.7	.63	.27	232	24	.72	290		130			.20	2		.08	
2267	2268.5	1.5		2.22	Cu equiv		$26.90			3.83	455		700		14		2.50	
2268.5	2270.2	1.7							110		60		115		2		-.02	
2270.2	2271.2	1.0	12.7	.57	.03	.45	9	.52		.66	155			5.04	20		3.35	
2271.2	2277	5.8								.12	600			.36	17		.24	
2277	2282	5.0								.44		.17		6.16	22		2.10	
2282	2287	5.0	12.5	.25	.68	5.64	62	1.43		.14		.58		5.10	71		1.33	
2287	2289.5	2.5								.10		1.91		5.66	122		.27	
2289.5	2290	0.5							25		280		85		3		-.02	
2290	2295	5.0							60		120		80		4		-.02	
2295	2301.1	6.1							60		800		100		7		-.02	
2301.1	2302.9	1.8							195			1.19		2.56	41		-.02	
2302.9	2308	5.1							55		130		145		3		-.02	
2308	2312.2	4.2							50		40		205		3		-.02	
2312.2	2314	1.8							75		800			.42	9		-.02	
2314	2320	6.0							50		45		140		3		-.02	
2320	2325	5.0							20		45		90		2		-.02	
2325	2330	5.0							30		30		95		2		-.02	
2330	2335.6	5.6							60		45		100		4		-.02	
2335.6	2337.6	2.0							55			.61		2.01	28		.09	
2337.6	2341	3.4							430			.41		2.76	29		.92	
2341	2345.6	4.6	11.1	.23	.16	2.46	16	2.15		.35	435			4.10	11		4.30	
2345.6	2348.7	3.1								.24	485			.43	9		.30	
2348.7	2350	1.3	3.6	.25	.09	1.79	9	.40		.13	260			2.25	6		.19	
2350	2352.3	2.3								.31		.13		1.53	11		.52	
2352.3	2356.5	4.2	14.7	.23	.14	2.45	14	1.72	375		65			1.41	2		1.42	
2356.5	2362.5	6.0		1.97	Cu equiv		$23.90		315			.32		2.07	19		.64	
2362.5	2363.2	0.7							230			.19		.51	35		.64	
2363.2	2365.8	2.6	30.2	.13	.29	2.19	21	1.45	235			1.35		2.82	81		3.14	
2365.8	2370	4.2		1.77	Cu equiv		$21.41		120			.22		.32	27		.30	

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started _____ HOLE No. K-7

Date Completed _____ Sheet No. 2

DIAMOND DRILL ASSAY LOG

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		Zn/Cu
2247	2251.8	4.8							800			.43		2.25	8		.71			
2251.8	2253.3	1.5	13.5	1.06	.22	185	10	.51		.63	800			.51	34		.56			1.75
2253.3	2258.3	5.0							-	2.55	390		700		6		.07			
2258.3	2263	4.7								.72	205		600		4		.05			
2263	2267	4.0	44.7	.63	.27	2.32	24	.72	290		130			.20	2		.08			3.71
2267	2268.5	1.5		2.22	Co equiv	$26.90			-	3.83	455		700		14		2.50			
2268.5	2270.2	1.7							110		60		115		2		-.02			
2270.2	2271.2	1.0	98.7	.57	.03	.45	9	.52		.66	155			5.04	20		3.35			0.8
2271.2	2277	5.8								.12	600			.36	17		.24			
2277	2282	5.0								.44		.17		6.16	22		2.10			
2282	2287	5.0	12.5	.25	.68	5.64	62	1.43		.14		.58		5.10	71		1.33			22.6
2287	2289.5	2.5								.10		1.91		5.66	122		.27			
2289.5	2290	0.5							25		280		85		3		-.02			
2290	2295	5.0							60		120		80		4		-.02			
✓ 2295	2301.1	6.1							60		800		100		7		-.02			
2301.1	2302.9	1.8							195			1.19		2.56	41		-.02			
2302.9	2308	5.1							55		130		145		3		-.02			
2308	2312.2	4.2							50		40		205		3		-.02			
2312.2	2314	1.8							75		800			.42	9		-.02			
2314	2320	6.0							50		45		140		3		-.02			
2320	2325	5.0							20		45		90		2		-.02			
2325	2330	5.0							30		30		95		2		-.02			
2330	2335.6	5.6							60		45		100		4		-.02			
2335.6	2337.6	2.0							55			.61		2.01	28		.09			
2337.6	2341	3.4							430			.41		2.76	29		.92			
2341	2345.6	4.6	11.1	.23	.16	2.66	16	2.15		.35	435			4.10	11		4.30			
2345.6	2348.7	3.1								.24	485			.43	9		.30			
2348.7	2350	1.3	3.6	.25	.09	1.79	9	.40		.13	260			2.25	6		.19			
2350	2352.3	2.3								.31		.13		1.53	11		.52			
2352.3	2356.5	4.2	14.7	.23	.14	2.45	14	1.72	375		65			1.41	2		1.42			
2356.5	2362.5	6.0		1.97	Co equiv	$23.90			315			.32		2.07	19		.64			
2362.5	2363.2	0.7							230			.19		.51	35		.64			
2363.2	2365.8	2.6	30.2	.13	.29	2.19	21	1.45	235			1.35		2.82	81		3.14			
2365.8	2370	4.2		1.77	Co equiv	$21.41			120			.22		.32	27		.30			

PROJECT Kay Mine (K-7) (Ariz.)

SAMPLE TYPE Drill Core NO. OF SAMPLES 13

REMARKS

STORAGE BOX NO.

SUBMITTAL NO. 76-42-3

DATE SUBMITTED 10-12-76

SUBMITTED BY R. G. Rowe

PROJECT NO. 3293-7

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
1980-1990	525		120		350		1
1990-2000	73		12		117		<1
2000-2010	70		15		86		<1
2010-2020	82		46		153		<1
2020-2030	750		28		185		2
2030-2040	47		16		130		<1
2040-2050	80		43		172		<1
2050-2060	235		28		160		<1
2060-2070	455		320		630		<1
2070-2071		0.56	255		630		3
2071-2080	80		50		159		21
2080-2090	350		103		380		1
2090-2100	210		135		358		1

10-14-76

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E HOLE No. K-7
Collar elev. 2084' By R. Rowe Scale 1" = 200' Date 6-76 P. 1

Recovery	Base Metal Mineralization	Pyrite Limonite	Ore Intervals	Color	Foliation	Rock Type	Description	Copper Equivalent	ANALYSES ELEMENT % Cu	ppm Au	% Pb	% Zn	ppm Ag
							K-7 1" = 200' Summary Log						
							WEDGE OFF K-6						
							BEGIN CORE @ 1553'						
					60		C ¢ schist } chloritic tuffaceous metasseds						
					51		¢ ¢ schist						
					60		m.g. qtz eye tuff						
		[Tr py]			58		felsic tuffaceous metasseds						
							f-m.g. felsic Lapelli tuff						
					58		felsic tuffaceous metasseds						
			→ clay pitch		57		graphitic metasseds / tuffaceous metasseds						
		1% py [1% py]			45-50								
	-	[5% py]			45-55		m.g felsic Lapelli tuff						
							csegr felsic Lapelli tuff						
					53								
					55		m.g. felsic Lapelli tuff						
					21		m.g. felsic tuff						
	4% Cu	30% py			56		m.g. feldspar Xtal tuff	5.18	2.82	2.25	.05	2.53	86
	[Cu]				25-40		f.g felsic tuff						
	2Cu-2Zn	1% py 50% py			45		← massive sulphide	4.18	1.04	.93	.71	4.80	38
	Cu-Zn	5% py [20%]			45-60		v.f.g. blk ¢						
	1 Cu 5 Zn	50% py			60		← massive sulphide m.g feldspar Xtal tuff	2.22	.63	.72	.27	2.32	24
	Zn	1% py [10%]											
	Cu-2% Zn	50% py 10% py			35		← massive sulphide f.g. felsic tuff	1.77	.13	1.45	.29	2.19	21
					40		w/ sparce Lapelli						
	-	2% py			40		tuffaceous greywacke						
					35		f.g. felsic tuff						
					35		m.g. felsic tuff						
							T.D. 2532						

PROJECT KAY MINE #3293 HOLE No. K-7

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1"=20' Date 6-76 P. 1

Recovery	Base Metal Mineralizat'n	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
00												
20												
40												
60												
80												
00												
20												
40							WEDGE OFF FROM DH-6 @ 1553'					
1553							WEDGE 10/22/73					
98' 98' 98' 98'	-	-		dk grn n'y	60° 56°		Calcite chlorite schist (lime / tuffaceous metasediments) laminated 1/32-1/4" bands of lime / limy tuffaceous metasediments / tuff. stg fol					
1500												
0	-	-	-	-	-	-	NO CORE WEDGE?					
98' 98' 98' 98'	-	tr py		med grn	51°		stg fol. Quartz chlorite schist (ϕ tuffaceous metasediments) Lam 1/8-1/4" bands tuff / ϕ f.mg metasediments					
1580												
98' 98'	-	-		med n'y grn	58°		Quartz chlorite sericite schist (qtz eye m.g. tuff) description next page					
1600												

PROJECT KAY MINE #3293 HOLE No. K-7

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 2

Depth	Recovery	Base Metal Mineralizatn	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
1600	98%												
	0	-	-					WEDGE: NO CORE					
					med grn gry	60°		- mod fol - uniform texture - med to cse grained - 50% 1-2 mm felsic-inter frags 30% 2-5 mm qtz eyes 20% ribbony, feathery, wispy uniformly distributed med grn f.g. tuff. } f.g. zone					
1620			-										
			-		dk olive grn			metaandesite dike non-foliate					
	98+% recovery	-											
1640					med grn	55-60°		Quartz chlorite schist (φ tuffaceous metasediments) - stg. fol - f. to m.g. - 5-20% white φ lens, bands, wisps + streaks					
			-										
1660		-	Tr py		lt gry milky white			Quartz sericite schist (felsic qtz lapilli tuff) - mod. fol - uniform texture 60% ghosty qtz lapilli frags 5-15 mm 25% f.g. sericitic tuff wisps + streaks 15% m.g. sericitic tuff patches (matrix)					
	0	-	-	-	-	-	-	WEDGE: NO CORE					
1680	98+	-	Tr py		lt gry milky white			} f.g.					
	0	-	-	-	-	-	-	WEDGE: NO CORE					
1700		-	tr py			56°		} f.g.					
		-	tr py [1%]			62°		} core ground into sand					
1720	98% recovery	-	5 py		med gry grn	58°		Quartz sericite schist (felsic tuffaceous metasediment) - stg fol - stg laminated 1/16 - 1/4" bands 30-70% φ m.g. greywacke type sandstone 70-30% f.g. tuff and tuffaceous interbeds occuring as bands, wisps + lens, + are a grey to buff color. - sparce thin laminae of f.g. pyrite. Locally occurs 5-15% very finely divided in diffuse bands + zones.					
		-	tr py										
		-	10 py										
1740		-	3 py			58°							
	40	-	tr py [1%]										
						60°							
1760		-	10 py										
		-	3 py										
1780	98%	-	5 py [2]		dk gry blk	60°		Quartz graphite sericite schist (tuffaceous carbonaceous metased) - stg fol - Lamined 40-70% φ m.g. greywacke type sandstone 60-30% f.g tuff &/or carbonaceous bands, wisps + streaks - φ s.stone shrd into boudin structure in stg graphite zone					
						56°							
		-	tr py		gray			} within expanding clays ↓ sparce felsic lapilli frags.					
		-	5 py					Quartz sericite schist as 1707-1766 interval					
		-	tr py			51°							
1800													

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E HOLE No. K-7
Collar elev. 2084' By R. Rowe Scale 1"=20' Date 6-76 P. 3

Depth	Recovery	Base Metal Mineralizatn	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	Cu	ppm Ag	Pb	Zn	ppm Ag
1800		-	1 py		med gry			Lapelli fragments very common. Probably a felsic lapelli tuff.						
1820	98%	-	py			55°		Otz graphite sericite schist / Otz sericite schist (felsic tuffaceous ±graphite metasediment?)						
		-	1 py		dk gry			stg graphite stg fol stg graphite stg lam. 1/32-1/8"						
	60	-	-	-	-	-	-	WSBOE: NO CORE						
	80	-	py		med gry gr	52°		tuffaceous m.g. greywacke which is intimately interbedded with f.g. feathery felsic tuff and/or black carbonaceous material.						
1840						45								
		-	2 py		dk gry			stg graphite						
		-	py [1]		med gry grn	52°								
1860		-	5 py		dk gry			stg graphite						
		-	tr py		med gry to tan gry	45-55°		Quartz sericite schist (felsic lapilli m.g. tuff) - mod fol - vaguely lam - m.g. xtal tuff w/ 10-30% f.g. tuff wisps 20-70% 4-10 mm felsic subangular lithic fragments, commonly elongate in fol. plane						
1880	98%	-	20 py											
1900		-	-		dk gry to pale gry grn	55° 50°		Quartz sericite schist (felsic crystal tuff) - mod fol - fine to med grained xtal tuff. Grain size changes slightly every few feet - relatively massive.						
					dk gry			f.g. andesite dike @ 55° (cuts foliation)						
1920		-	1 py [tr to 5]		med gry	55°		Quartz sericite schist (felsic xtal lithic lapilli tuff) - mod fol - cse grained - wk-mod laminated. The cse tuff commonly contains 10-20% wispy f.g. tuff which commonly contain finely divided pyrite						
1940						56°		- felsic subangular lapilli lithic frags. throughout						
1960			py [2 py]		med tan gry	56° 52° 54° 54°		Quartz sericite schist (felsic xtal lithic tuff) - stg fol - med-cse grained - semi massive texture - wk lam as defined by f.g. laminae - finely divided pyrite locally common						
		← tr py												
1980		-	1-5% py [10 py]		med gry to pale gry gry	52°		- stg fol Quartz sericite schist (felsic xtal lithic tuff) - med-cse gr. - mod lam. defined by: 1) compositional banding 2) f.g. tuff lam 3) pyritic longitudinal lam 4) stretched fragments		525	.42	120	350	1
								med-cse xtal lithic tuff scattered sparse stretched lapilli		73		12	117	-1
2000														

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E
HOLE No. K-7
Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 4

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	Cu	Au (ppm)	Pb	Zn	Ag (ppm)
2000							v. gradational contact		70		15	86	-1
							Quartz sericite schist (felsic Xtal lithic Lapelli tuff)		82	.16	46	153	-1
2020	-	[1% py]		med gry	55°		- mod fol - 50% m.g. Xtal matrix - 50% lithic Lapelli tuff: stretched 5:1 in plane fol. (shard spherules ?) (Locally tuff-sed bands up to 1")		750		28	185	2
							- matrix locally composed of up to 30% f.g. tuff laminae		47		16	130	-1
2040					55°				80	.12	43	172	-1
					SLIGHTLY VARIABLE				235		28	160	-1
2060				med gry	56°		- mod for - med g. - more f.g. tuffaceous w/ depth Qtz-sericite schist tuffaceous greywacke		455		320	630	-1
	.3 py	10 py							0.56	.25	255	630	3
2080	98+% RECOVERY	-	-	Lt tan	65°		Qtz, feldspar sericite schist - mod to poorly fol - m. grained - locally lam. w/ f.g. tuff - relatively massive felsic Xtal tuff / [tuff]		80		50	159	-1
	-	10 py							350		103	380	1
									210	.32	135	358	1
2100				med tan grn	21°		- stg for - stg lam Sericite Qtz schist fine/med g. Xtal tuff		270	.12	35	340	1
							Feldspar-sericite schist		65	.04	105	125	1
				med tan grn on core surface			- poorly foliated - med grained [cse] - massive, loc mottled felsic Xtal tuff		40	-.02	185	135	1
2120									85	.02	110	120	1
									125	-.02	190	220	2
							- Anorthosite(?): Almost 100% m.g. euhedral to subhedral Xtals (no f.g. matrix)		95	.03	80	145	1
	5% Tr. 5% cpy	Tr py							5.96	3.78	370	.82	440
	10% cpy	40% py		med gry on fresh broken surface	57°		- massive sulfide zones weakly banded - pyrite f. grained, locally up to 2 mm - chalcopyrite intimately intermixed w/ py, locally blotchy		2.46	1.38	185	.60	9
2140									2.55	1.64	.11	.85	12
									4.14	5.96	320	.82	19
					56°		- Tennantite blotchy		.18	.32	.15	2.70	9
	3% cpy	30% py					matrix beg. carbonaceous		.55	1.57	425	9.28	4
2160									.36	.60	120	2.62	2
	-	Tr py							20	.04	60	160	1
	-	1 py							100	.08	370	.18	<1
	.3 cpy	20% py		med tan grn	25°		Sericite - Qtz schist		500	.10	125	.17	<1
	-	Tr py					- stg fol - dom. f. grained - locally m.g. Xtal tuff - weakly lam. felsic tuff / Xtal tuff		800	.05	50	1.07	2
2180	.5 cpy	80% py							.17	.07	85	.51	2
	-	<.5% py			36°				95	.06	15	140	>1
					39°				125	.05	15	160	>1
2200									120	.04	25	290	>1

PROJECT KAY MINE #3293 HOLE No. K-7

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 5

Depth	Recovery	Base Metal Mineralizat'n	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	Cu	Au (ppm)	Pb	Zn	Ag (ppm)
2200		1 cpy	40 py					} tuffaceous Sulfide, qtz zone		1.11	1.17	6.42	13.90	100
		1 cpy	[30 py]		gray silvery					.42	.73	.49	2.36	50
		5 sl						- nod t.L chemical sediment		1.25	.77	700	4.21	22
		8 cpy	60 py			45°		- wk Lam		1.00	1.42	.23	1.93	91
		[particles cpy scattered]						- fine to m.g. pyrite		1.90	.84	350	2.38	33
2220								- fine cpy, loc blotchy		.43	.90	390	9.50	16
								- fine dark sphalerite		230	.22	420	.22	4
								Blk Chlorite schist		.18	1.85	.32	.64	12
								- v.f.g. Blk ∅ (inter. tuff ?)		620	.25	.17	1.23	7
		[cpy]	5 py			various		- up to 30% lens up to 1/8" x 1" of: pyrite, lithic clasts, tuff		480	.22	.30	.49	11
					dk gry-blk	45-60°				600	.27	.13	1.08	8
2240		← gn sl	[30% py]					- locally f-m grained xtal tuff intimately intermixed with the Blk ∅.		.10	.15	.33	.44	14
										.11	1.01	.24	5.91	9
										800	.71	.43	2.25	8
										.63	.56	800	.51	34
										2.55	.07	390	700	6
2260										.72	.05	205	600	4
										290	.08	130	.20	2
		10 cpy	10 py		olive			← Andesite dike @ 27° Feldspar - qtz - sulfide schist		3.83	2.50	455	700	14
		5 cpy	20 py		med gry			poorly fol		110	-.02	60	115	2
		[trace tr cpy]	[trace py]		pale grn			} well fol. wk banding of sulfides } sec. schist		.66	3.35	125	5.04	20
								Calc fsp xtal tuff		.12	.24	600	.36	17
2280		10% cpy 1% cpy	50% py		pyrite color	60°		Sulfide - fsp - qtz zone massive sulfide well banded fine - med gr sulfides w/ fsp-qtz gangue		.44	2.10	.17	6.16	22
										.14	1.33	.58	5.10	71
										.10	.27	1.91	5.66	122
										85	-.02	280	85	3
		-	12		med gry			Quartz fsp schist - poor fol - locally stg recrystallization of fsp - loc sericitic bands - patchy texture m.g. fsp xtal tuff		60	-.02	120	80	4
2300										60	-.02	800	100	7
		2 cpy	20 py							195	-.02	1.19	2.56	41
		-	1 py					Sericite quartz schist. - stg fol - pyrite uniformly disseminated, m.g. - locally up to 2' zones of m. sulfides - f grained, locally approaching m.gr. - uniform texture w/ local mottling or patchy appearance		55	-.02	130	145	3
										50	-.02	40	205	3
		al -	25 py		pale lite grn					75	-.02	800	.42	9
2320		-	1 py							50	-.02	45	140	3
										20	-.02	45	90	2
										30	-.02	30	95	2
										60	-.02	45	100	4
		[al]	10 py		gry grn			↓ more fsp-qtz-sulfide veins		55	.09	.61	2.01	28
2340										430	.92	.41	2.76	29
		[cpy]	60 py		pyrite color	55°		Sulfide qtz schist - vague banding		.35	4.30	435	4.10	11
		2 al [gn]								.24	.30	485	.43	9
										.13	.19	260	2.25	6
										.31	.52	.13	1.53	11
		cpy 2 al 1 gn	10 py [30]		dk gry			Qtz, fsp, sulfide schist - m. grained - pyrite in mod distorted laminae + as 3 mm blotches - sparse subrounded lapelli felsic pyroclastic		375	1.42	65	1.41	2
2360										315	.64	.32	2.07	19
										230	.64	.19	.51	35
										235	3.14	1.35	2.82	81
								Sericite, qtz schist - fn to med gr., loc sparse lapelli felsic tuff - mod Lam - uniform texture - sparse siliceous lapelli - locally m.gr. sandy laminae		120	.30	.22	.32	27
2380		-	2 py		Lt tan grn	40°								
								Greywacke S.S. description next page						
2400		-	1 py			40°								

PROJECT KAY MINE #3293 HOLE No. K-7

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 6

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Foliation	Rock Type		INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn	
2400													
				med gry	35-40°		- [illegible] and lam - [illegible] - locally qtz rich peds in bands - [illegible] disseminated or assoc w/ tuffaceous laminae						
2420													
2440													
98% recovery													
				med gry	40°		v. [illegible] contact						
2460		2 py					Sericite schist - [illegible] (fine [illegible] tuff) - [illegible] - upper portion of unit is a f.g. felsic tuff. 1-2 mm xtals becoming more abun w/ depth. Below 2490 can be considered a m.grained tuff of lesser f.g. nature - mod laminated						
		5 py											
2480				beg [illegible]	35°								
2500					35°								
25													
50													
75													
40													
10				pale lt gry grn									
95													
95													
95					30°								
95					36°								
2532													
40							T.D. 2532' TERM. 1/15/74						
60													
80													
00													

S 2532

SOUTHWESTERN ASSAYERS & CHEMISTS, INC.

REGISTERED ASSAYERS
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Mr. Martin H. Hibbetts
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Tucson, Arizona 85705

Proj: Kay Mine
3293

Kay Mine-F

JOB # 025405
RECEIVED 11-13-80
REPORTED 11-20-80

SAMPLE NUMBER	As %	
3293-7		
2129.25-2135	0.23	5.8
2135-2140	2.20	5
2140-2145	5.00	5
2145-2149.1	9.40	4.1 as pin this in lower 19.9

NOV 1980
RECEIVED
TUCSON
MINERALS

REGISTERED ASSAYER
CERTIFICATE NO. 5875
WILBUR D. WRIGHT
Date Signed
Arizona U. S. A.

1 ppm = 0.0001% 1 troy oz./ton = 34.286 ppm 1 ppm = 0.0292 troy oz./ton
* Gold and Silver reported in troy oz. per 2,000 lb. ton.

PROJECT KAY MINE DDH-7

SAMPLE TYPE Drill Core NO. OF SAMPLES 7

REMARKS Au to Skyline Labs

STORAGE BOX NO.

SUBMITTAL NO. 73-24-28

DATE SUBMITTED 12/14/73

SUBMITTED BY T.D. Irwin

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.			ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	oz.s Ag	Cd	ppm Au	Sn	ppm Ni
2129.25-2135	170			5.96		370				0.82		440	12.83				
2135-2140	171			2.46		185				0.60		9	0.26				
2140-2145	172			2.55			0.11			0.85		12	0.35				
2145-2149.1	173			4.14		320				0.82		19	0.55				
2149.1-2152.2	174			0.18			0.15			2.70		9	0.26				
2152.2-2157.2	175			0.55		425				9.28		4	0.12				
2157.2-2161.7	176			0.36		120				2.62		2	0.06		.074		

7

PROJECT RAY MINE DDH-7

SAMPLE TYPE Drill Core NO. OF SAMPLES 7

REMARKS Au to Skyline Labs

STORAGE BOX NO.

SUBMITTAL NO. 73-24-28

DATE SUBMITTED 12/14/73

SUBMITTED BY T.D. Irwin

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.		ppm Cd	ppm Cu	% Cu		ppm Pb	% Pb	oz/Au ppm Au	~~ppm~~ Zn	% Zn		ppm Ag	oz.s Ag		ppm Co		ppm Ni
2129.2-2135	5.8	30		5.96		370		3.28	.11	0.82		440	12.83	-q	17		3
2135-2140	5.0	25		2.46		185		1.38	.04	0.60		9	0.26		47		4
2140-2145	5.0	30		2.55			0.11	1.41	.05	0.85		12	0.35		52		5
2145-2149.1	4.1	32		4.14		320		5.96	.17	0.82		19	0.55		20		5
2149.1-2152.2	3.1	72		0.18			0.15	0.32	.01	2.70		9	0.26		10		6
2152.2-2157.2	5.0	290		0.55		425		1.57	.05	9.28		4	0.12		11		5
2157.2-2161.7	4.5	80		0.36		120		.60	.02	2.62		2	0.06		10		6
	32.5																

PROJECT KAY MINE DDH-7

SAMPLE TYPE Drill Core NO. OF SAMPLES 6

REMARKS Hole #7

STORAGE BOX NO.

SAMPLE CONCENTRATION .25 Grams / 50ml 0.5/100

SUBMITTAL NO. 73-24-36

DATE SUBMITTED 12/21/73

SUBMITTED BY T.D. Irwin

PROJECT NO. 3293

PAGE 1 OF 1 PAGE

Sample No.	INTERVAL	ppm Cd		ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	oz.s Ag		
2200-2202	2.0	270			1.11			6.42			13.90		100	2.92		
2202-2206.4	4.4	65			0.42			0.49			2.36		50	1.46		
2206.4-2212	5.6	140			1.25			0.07			4.21		22	0.64		
2212-2215.6	3.6	70			1.00			0.23			1.93		41	1.20		
2215.6-2220	4.4	85			1.90		350				2.38		33	0.96		
2220-2223.6	3.6	300			0.43		390				9.50		16	0.47		
					1.04%		.71%				4.80% Zn			1.10 oz		

7

PROJECT KAY MINE (K-7) AZ

SUBMITTAL NO. 76-92-22

SAMPLE TYPE core pulp

NO. OF SAMPLES 1

DATE SUBMITTED 11-3-76

SUBMITTED BY R. Rowe

REMARKS

PROJECT NO. 3293-7

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.		PPM Cu		PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
2222-2-2231-2		620			0.17		1.23	7

12-16-76

PROJECT KAY MINE DDH-7

SUBMITTAL NO. 74-28-12

SAMPLE TYPE Drill Core

NO. OF SAMPLES 20

DATE SUBMITTED 3/4/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGE(S)

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	ppm Ag	Oz.s Ag
2100-2105	270		35		340		1	
2105-2110	65		105		125		1	
2110-2115	40		185		135		1	
2115-2120	85		110		120		1	
2120-2125	125		190		220		2	
2125-2129.2	95		80		145		1	
2161.7-2165	20		60		160		1	
2165-2170	100		370			0.18	<1	
2170-2175		0.05	125			0.17	<1	
2175-2180		0.06	50			1.07	2	
2180-2185		0.17	85			0.51	2	
2185-2190	95		15		140		<1	
2190-2195	125		15		160		<1	
2195-2200	120		25		290		<1	
2223.6-2226.6	230		420			0.22	4	0.12
2231.2-2235	480			0.30		0.49	11	0.32
2235-2240		0.06		0.13		1.08	8	0.23
2240-2244.8		0.10		0.33		0.44	14	0.41
2247.0-2251.8		0.08		0.43		2.25	8	0.23
2253.3-2258.3		2.55	390			0.07	6	0.17
2258.3-2263.0		0.72	205			0.06	4	0.12

7

PROJECT KAY MINE D.D. 1-7

SUBMITTAL NO. 77-26-1

SAMPLE TYPE Drill Core

NO. OF SAMPLES 9

DATE SUBMITTED 1/2/74

SUBMITTED BY G. Parsons

REMARKS Au to Skyline Labs

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.		Int	ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	OZ. S X.0292 Ag	OZ Au		
2226.6-2229.2	28			0.18			0.32			0.64		12	.35	0.054		
2244.8-2247.0	29	2.2		0.11			0.24			5.91		9	.26	0.029		
2251.8-2253.3	30			0.63			0.08			0.51		34	.99	0.016		
2263.0-2267.0	31		290			130				0.20		2	.05	0.022		
2267.0-2268.5	32	1.5		3.83		455				0.07		14	.41	0.073		
dia. dike		1.5														
2270.2-2271.2	33	1.2		0.66		155				5.04		20	.58	0.098		
2277.0-2282.0	34	5.0		0.44			0.17			6.16		22	.64	0.061		
2282.0-2287.0	35	5.0		0.14			0.58			5.10		71	2.07	0.039		
2287.0-2289.5	36	2.5		0.10			1.91			5.66		122	3.56	0.008		

PROJECT KAY MINE DDH-7

SAMPLE TYPE Drill Core NO. OF SAMPLES 9

REMARKS Au to Skyline Labs

STORAGE BOX NO.

SUBMITTAL NO. 74-26-1

DATE SUBMITTED 1/2/74

SUBMITTED BY G. Parsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.			ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	oz.s Ag				
2226.6-2229.2	28			0.18			0.32			0.64		12					
2244.8-2247.0	29			0.11			0.24			5.91		9					
2251.8-2253.3	30			0.63			0.08			0.51		34					
2263.0-2267.0	31		290			130				0.20		2					
2267.0-2268.5	32			3.83		455				0.07		14					
2270.2-2271.2	33			0.66		155				5.04		20					
2277.0-2282.0	34			0.44			0.17	.05		6.16		22					
2282.0-2287.0	35			0.14			0.58	2.9		5.10		71					
2287.0-2289.5	36			0.10			1.91	4.8		5.66		122					
		12.5		0.25			27			5.64		180	$9.09	+ Au			

7

PROJECT KAY MINE DDH-7

SUBMITTAL NO. 74-22-18

SAMPLE TYPE Drill Core

NO. OF SAMPLES 11

DATE SUBMITTED 3/12/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGE(S)

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	ppm Ag	Oz. s Ag
2268.5-2270.2	110		60		115		2	
2271.2-2277		0.12		0.06		0.36	17	0.50
2289.5-2290	25		280		85		3	
2290-2295	60		120		80		4	0.12
2295-2301.1	60			0.08	100		7	0.20
2302.9-2308	55		130		145		3	
2308-2312.2	50		40		205		3	
2314-2320	50		45		140		3	
2320-2325	20		45		90		2	
2325-2330	30		30		95		2	
2330-2335.6	60		45		100		4	0.12

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P.O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

622-4836

DH-7

CERTIFICATE OF ANALYSIS

SAMPLE IDENTIFICATION		GOLD ppm	SILVER	LEAD	ZINC	COPPER	MO	Sn ppm
2129.25-2135	5.75 X .11	3.78	.63					30
2135-2140	5 X .04	1.38	.20					<10
2140-2145	5 X .05	1.64	.25					40
2145-2149.1	4.1 X .17	5.96	.70					<10
2149.1-2152.2	3.1 X .01	0.32	.03					<10
2152.2-2157.2	5 X .05	1.57	.25					80
2157.2-2161.7	4.5 X .02	0.60	.09					60

.07 oz Ag

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Trace analysis
Project No. 3293
7 Gold (0.02 ppm) @ $2.00
7 Tin @ $2.00

CERTIFIED BY:

REGISTERED ASSAYER CERTIFICATE NO. 6784 G. E. RICHARD Date Signed Arizona U.S.A.

CHARGES:
PREPARATION $
ANALYSIS $ 28.00

ACCT.: EXXON COMPANY, U.S.A.

DATE REC'D: 12/14/73

DATE COMPL.: 12/19/73

348422

$ 28.00

7

PROJECT KAL MINE [illegible]-7

SUBMITTAL NO. [illegible]

SAMPLE TYPE Drill Core

NO. OF SAMPLES 6

DATE SUBMITTED 1/4/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	ppm Ag	oz.s Ag	ppm Cd	Au
2301.1-2302.9	195			1.19		2.56	41	1.20	51	
2312.2-2314	75			0.08		0.42	9	0.26	11	
2335.6-2337.6	55			0.61		2.01	28	0.82	39	
2337.6-2341	430			0.41		2.76	29	0.85	82	
2341-2345.6		0.35	435			4.10	11	0.32	120	
2345.6-2348.7		0.24	485			0.43	9	0.26	21	

PROJECT RAY [illegible]-7

SUBMITTAL NO. 74-26-25

SAMPLE TYPE Drill Core NO. OF SAMPLES 4

DATE SUBMITTED 1/10/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	ppm Ag	Oz.s Ag	ppm Cd	ppm Au
2348.7-2350.0		0.13	260			2.25	6	0.17	66	0.19
2352.3-2356.5	375		65			1.41	2	0.06	50	1.42
2362.5-2363.2	230			0.19		0.51	35	1.02	16	0.64
2365.8-2370.0	120			0.22		0.32	27	0.79	7	0.30

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P. O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

7

CERTIFICATE OF ANALYSIS

SAMPLE IDENTIFICATION	GOLD ppm	SILVER	LEAD	ZINC	COPPER	MO
Proj. No. 3293-7						
2348.7 - 2350.0	0.19					
2350.0 - 2352.3	0.52					
2352.3 - 2356.5	1.42					
2356.5 - 2362.5	0.64					
2362.5 - 2363.2	0.64					
2363.2 - 2365.8	3.14					
2365.8 - 2370.0	0.30					

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705
Attn.: Mr. R. E. Graves

ACCT.:
EXXON COMPANY, U.S.A.

REMARKS:
Trace analysis

7 Gold @ $2.00

CERTIFIED BY: H. E. RICHARDS

REGISTERED ASSAYER CERTIFICATE NO. 6784 Date Issued Arizona U. PREPAR ANA

DATE REC'D: 1/24/74

DATE COMPL.: 1/25/74

740090

7

PROJECT [illegible]

SUBMITTAL NO. 74-26-22

SAMPLE TYPE Drill Core

NO. OF SAMPLES 3

DATE SUBMITTED 1/17/73

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.			ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz. Ag	PPM Au	oz Au
2350 -2352.3	[illegible]	23		0.31			0.13			1.53		11	0.32	0.52	0.015
2356.5-2362.5	[illegible]	6.0	315				0.32			2.07		19	0.55	0.64	0.019
2363.2-2365.8	[illegible]	2.6	235				1.35			2.82		81	2.36	3.14	0.092

7

PROJECT KAY MINE - (DDH-7) ✓

SUBMITTAL NO. 75-34-30

SAMPLE TYPE Drill Core

NO. OF SAMPLES 2

DATE SUBMITTED 6/23/75

SUBMITTED BY G. Parsons

REMARKS K & Na to Skyline Labs

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ppm Cu	ppm Pb	ppm Zn	ppm Co	ppm Ni	% Ca	% Mg	% Fe
2510	10	16	25	20	12	0.30	1.90	2.02
2418	13	18	75	24	13	0.60	6.23	2.96

Dolomite

K 7

SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

WIL WRIGHT
ARIZONA REG. NO. 5875

DNYANENDRA A. SHAH
ARIZONA REG. NO. 8888

P.O. BOX 7517
TUCSON, ARIZONA 85725

710 E. EVANS BLVD.
PHONE 602-294-5811

OCT 1976 RECEIVED TUCSON

Exxon Company
Mr. Martin H. Hibbetts
2425 N. Huachuca Drive
Tucson, Arizona 85705 Project 3293

JOB # 019933
RECEIVED 10-19-76
REPORTED 10-22-76

SAMPLE NUMBER	GOLD ~~XXX~~PPM	SILVER OZ.*	LEAD %	COPPER %	ZINC %		MOLYBDENUM %
-7-							
1980-1990	.42						
2010-2020	.16						
2040-2050	.12						
2090-2100	.32						

REGISTERED ASSAYER CERTIFICATE NO. 8888 Dnyanendra Amrutlal Shah Arizona U. S. A.

DATE SIGNED 10-22-76

MINERALS DEPARTMENT — FIELD

REC'D	CHG:	MIN	ST	PROJECT
10/29		Cu	Az	Kay Mine # 3293

TO BE USED FOR: Drill Assays

APPV'D: DIST / APPV'D: HDQRS

DPT	LC	F	B	ST	DST-MIN	UNIT	TYPE	MEMO LC
6								
6								

CHARGE $ 8.00

* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

SK INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

Kay - DH 7

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm	oz
1	2100-2105	0.12	.0048
2	2105-2110	0.04	.001
3	2110-2115	<0.02	
4	2115-2120	0.02	
5	2120-2125	<0.02	
6	2125-2129.2	0.03	
7	2161.7-2165	0.04	
8	2165-2170	0.08	
9	2170-2175	0.10	.003
10	2175-2180	0.05	
11	2180-2185	0.07	
12	2185-2190	0.06	
13	2190-2195	0.05	
14	2195-2200	0.04	
15	2223.6-2226.6	0.22	.006
16	2231.2-2235	0.22	.006
17	2235-2240	0.27	.009
18	2240-2244.8	0.15	.004
19	2247.0-2251.8	0.71	.021
20	2253.3-2258.3	0.07	
21	2258.3-2263.0	0.05	

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: R. E. Graves

REMARKS:
Trace analysis
Project No.: 3293-7

CERTIFIED BY: William L. Lehmbeck

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK PATENTED Arizona U. S. A.

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
3/12/74	3/14/74	740393

7

S '.INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P.O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

CERTIFICATE OF ANALYSIS

7

ITEM NO.	SAMPLE IDENTIFICATION	Cu %	Pb %	Zn %	Cd %	Au ppm	Ag ppm	Sn ppm		
	Project 3293-7									
1	2200-2202 2	1.08	6.60	14.24	0.03	1.17	104.	150		
2	2202-2206.4 4.4	0.40	0.52	2.26	<0.01	0.73	48.	30		
3	2206.4-2212 5.6	1.21	0.06	3.95	0.01	0.77	21.	15		
4	2212-2215.6 3.6	1.05	0.23	1.95	<0.01	1.42	44.	10		
5	2215.6-2220 4.4	1.93	0.05	2.40	<0.01	0.84	30.	20		
6	2220-2223.6 3.6	0.45	0.08	9.24	0.03	0.90	15.	30		

TO:
Exxon Company, U.S.A.
Minerals Department
1757 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Cu, Pb, Zn, Cd - Single analysis
Au, Ag, Sn - Trace analysis

CERTIFIED BY:

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
12/21/73	1/4/74	348460

7

S. .INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
P.O. Box 50106, 1700 W. Grant Rd., Tucson, Arizona 85703

JAN 1974
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TUCSON
MINERALS

CERTIFICATE OF ANALYSIS

7

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm	Oz.s Au
1	2226.6-2229.2	1.85	0.054
2	2244.8-2247.0	1.01	0.029
3	2251.8-2253.3	0.56	0.016
4	2263.0-2267.0	0.08	0.002
5	2267.0-2268.5	2.50	0.073
6	2270.2-2271.2	3.35	0.098
7	2277.0-2282.0	2.10	0.061
8	2282.0-2287.0	1.33	0.039
9	2287.0-2289.5	0.27	0.008
10	2301.1-2302.9	<0.02	<0.001
11	2312.2-2314	<0.02	<0.001
12	2335.6-2337.6	0.09	0.003
13	2337.6-2341	0.92	0.027
14	2341-2345.6	4.30	0.125
15	2345.6-2348.7	0.30	0.009

=.067

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Trace analysis
Project No.: 3293-7

CERTIFIED BY:

REGISTERED ASSAYER
CERTIFICATE NO. 6784
H. E. RICHARD
Date Signed .....
Arizona U. S. A.

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
1/7/74	1/10/74	740020

7

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50100, Tucson, Arizona 85703
(602) 622 4836

Charles E. Thompson
Arizona Registered Assayer No. 9427
William L. Lehmberg
Arizona Registered Assayer No. [illegible]

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION		Au ppm
36	K-6	2326.6-2329.6	0.08
37	K-7	2229.2-2231.2	0.25
38		2070-2071	0.25
39		2268.5-2270.2	<0.02
40		2271.2-2277	0.24
41		2289.5-2290	<0.02
42		2290-2295	<0.02
43		2295-2301.1	<0.02
44		2302.9-2308	<0.02
45		2308-2312.2	<0.02
46		2314-2320	<0.02
47		2320-2325	<0.02
48		2325-2330	<0.02
49	K-7	2330-2335.6	<0.02
50	K-8	2285-2290	<0.02
51		2290-2295	<0.02
52		2445-2450	<0.02
53		2450-2455	<0.02
54		2460-2465	<0.02
55		2465-2470	0.08
56		2475-2480	<0.02
57		2480-2485	0.07
58		2485-2490	0.17
59		2495-2500	0.79
60		2500-2505	0.23
61		2510-2515	<0.02
62		2515-2520	<0.02
63		2525-2530	<0.02
64		2530-2535	0.13
65		2180-2190	<0.02
66		2190-2194	<0.02
67		2197-2200	<0.02
68		2200-2205	<0.02
69		2205-2210	<0.02
70		2210-2215	<0.02
71	K-8	2215-2218.2	<0.02

TO:
EXXON COMPANY, U.S.A.
2425 N. Huachuca Drive
Tucson, Arizona 85705

Attention: Martin Hibbetts

REMARKS:
Trace analysis
Project: 3293
Kay Mine

Page 2 of 2

CERTIFIED BY:

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
11/11/76	11/26/76	762315

SAMPLE TYPE KAY DDH 8

Drill Core NO. OF SAMPLES 7

REMARKS

STORAGE BOX NO.

SAMPLE CONCENTRATION

DATE SUBMITTED

SUBMITTED BY G. Larsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGE

Sample No.		ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz.s Ag
2218.2-2221.5	[illegible]		2.80		215			0.	0.81		81	2.36
2221.5-2226.6	5.1		1.91		380				0.15		9	0.26
2226.6-2229.0	2.4		15.23			0.09			0.83		25	0.73
2229.0-2230.2	1.2		0.09		50			210			2	0.06
2230.2-2234.0	3.8		1.00			0.29			1.04		7	0.20
2234.0-2239.0	5.0		4.45			0.22			2.22		18	0.52
2239.0-2241.0	2.0		3.50		300				2.81		15	0.44
2241- 2246	[illegible]		6.50			0.09			0.70		20	0.58
2246- 2251	[illegible]		2.80			0.21			0.64		20	0.58
2251- 2257	[illegible]		3.60			0.08			0.43		11	0.32
2257- 2261	[illegible]		11.00			0.16			1.97		55	1.60
2261- 2264.2	3.2		0.30			0.08			6.90		55	1.60
2264.2- 2268.6	4.4		0.24		220				0.71		11	0.32

8

KAY MINE - DDH-8

SAMPLE TYPE NX Drill Core NO. OF SAMPLES 7

REMARKS

STORAGE BOX NO.

SAMPLE CONCENTRATION

SUBMITTAL NO. 74-28-29

DATE SUBMITTED 3/29/74-4/1/74

SUBMITTED BY G. Parsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

Sample No.		Fe	ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz./T Ag
2218.2-2221.5		[illegible]		2.80		215			0.	0.81		81	2.36
2221.5-2226.6		5.1		1.91		380				0.15		9	0.26
2226.6-2229.0		2.4		15.25			0.09			0.83		25	0.73
2229.0-2230.2		1.2		0.09		50			210			2	0.06
2230.2-2234.0		3.3		1.00			0.29			1.04		7	0.20
2234.0-2239.0		5.0		4.45			0.22			2.22		18	0.52
2239.0-2241.0		2.0		3.50		300				2.81		15	0.44
2241- 2246	7	5.0		6.50						0.70		20	0.59
2246- 2251	7	5.0		2.80						0.64		20	0.59
2251- 2257	8	6.2		3.60						0.43		11	0.32
2257- 2261	10	4.0		11.00						1.97		55	1.60
2261- 2264.2	11	3.2		2.09						6.90		55	1.62
2264.2- 2268.6	16	4.4		2.02						0.71		11	0.32
		50.4		4.30						1.36			0.265

8

PROJECT RAT MINE DDH-8

SUBMITTAL NO. 74-28-32

SAMPLE TYPE NX Drill Core

NO. OF SAMPLES 6

DATE SUBMITTED 4/4/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	oz Au	ppm Ag	Oz. Ag	
2268.6- 2270.8		1.25		0.07		0.89		27	[illegible]	
2276.9- 2279.8		0.85		0.28		4.75		27	[illegible]	
2298.5- 2307.2		0.38		1.50		7.25	0.096	97	[illegible]	7
2307.2- 2312		0.29		0.28		1.28	0.030	69	[illegible]	4.8
2312- 2316.0		0.23		0.11		0.70	0.021	40	[illegible]	40
2316.0 2320.0		0.83		0.43		2.26	0.064	180	[illegible]	40
		.42		.77		3.90	0.063		.79	21.5

8

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started 1-24-74 HOLE No. K-8

Date Completed 4-20-74 DIAMOND DRILL ASSAY LOG Sheet No. 1

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

198.1' ORE

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1770	1780	10							134		20		106		-1		.06	
1850	1860	10							188		18		118		-1		.04	
1900	1910	10							141		25		94		-1		.06	
1950	1960	10							74		17		103		-1		.10	
2000	2010	10							108		16		200		-1		.06	
2050	2060	10							130		10		364		-1		.10	
2090	2100	10							135		30		73		-1		.18	
2150	2160	10							104		91		239		-1		.16	
2180	2190	10							40		23		70		-1		-.02	
2190	2194	4.0							92		78		164		-1		-.02	
2194	2197	3.0								.25	61			.13	6		.82	
2197	2200	3.0							101		41		120		-1		-.02	
2200	2205	5.0							79		43		79		-1		-.02	
2205	2210	5.0							23		49		52		-1		-.02	
2210	2215	5.0							11		51		54		-1		-.02	
2215	2218.2	3.2							27		49		65		-1		-.02	
2218.2	2221.5	3.3								2.80	215			.81	81		2.10	
2221.5	2226.6	5.1								1.91	380			.15	9		1.48	
2226.6	2229	2.4								15.26	900			.83	25		1.49	
2229	2230.2	1.2							900		50		210		2		.04	
2230.2	2234	3.8	46	4.39	.12	1.42	26	1.77		1.00		.29		1.04	7		.39	
2234	2239	5.0								4.45		.22		2.22	18		3.10	
2239	2241	2.0								3.50	300			2.81	15		2.78	
2241	2246	5.0								6.50	900			.70	20		3.08	
2246	2251	5.0	52.6	3.91	.11	1.34	25	1.72		2.80		.21		.64	20		2.35	
2251	2257	6.0		5.13	Lo grade	#6226				3.60	800			.43	11		.47	
2257	2261	4.0								11.00		.16		1.97	55		.81	
2261	2264.2	3.2								.30	800			6.90	55		2.30	
2264.2	2268.6	4.4	66	.58	.04	.77	16	1.41		.24	220			.71	11		.47	
2268.6	2270.8	2.2		1.37	Lo grade					1.25	700			.89	27		3.29	
2270.8	2276.9	6.1							248		40		334		-1		.14	
2276.9	2279.8	2.9								.85		.28		4.75	27		1.61	
2279.8	2285	5.2							102		18		190		-1		.22	
2285	2290	5.0							52		17		114		-1		-.02	
2290	2295	5.0							103		22		121		-1		-.02	
2295	2298.5	3.5							102		229		390		2		.40	
2298.5	2307.2	8.7								.38		1.50		7.25	97		3.29	
2307.2	2312	4.8								.29		.28		1.28	69		1.02	
2312	2316	4.0	26	.36	.66	3.96	75	1.78		.23		.11		.70	40		.72	
2316	2320	4.0								.83		.43		2.26	180		2.19	
2320	2324.5	4.5							900			.13		4.85	14		.27	
2324.5	2327	2.5							800		700			.50	26		.24	
2327	2336	9.0							600			.14		.82	20		.33	
2336	2342	6.0	16	.31	.59	6.41	81	1.20		.15		1.10		10.38	48		.57	
2342	2347	5.0								.21		.31		5.90	61		1.62	
2347	2352	5.0								.61		.27		2.15	139		1.53	

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started _____ HOLE No. K-8

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 2

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
2352	2359	7.0							500			.53		1.75	31		.43	
2359	2363.6	4.6							300			.60		.90	17		.36	
2363.6	2368	4.4								.13		2.95		4.27	58		2.80	
2368	2377	9.0	20.4	.39	.69	2.22	18	.66		.40	700			.71	8		-.02	
2377	2381	4.0								.62	150		900		4		-.02	
2381	2384	3.0	48'	.28	.62	3.42	41	.78		.83		.16		6.55	8		.36	
2384	2395	11.0		2.66	Cu equiv	$32.24			600		360			.36	4		.12	
2395	2400.7	5.7							280		250			.11	4		.06	
2400.7	2408	7.3								.12		.26		1.36	10		.20	
2408	2413	5.0	22.3	.15	.25	2.82	17	.87	250			.38		1.93	8		.21	
2413	2418	5.0		1.98	Cu equiv	$23.98				.21		.21		2.98	30		1.40	
2418	2423	5.0								.24		.14		5.65	23		2.00	
2423	2428	5.0							700		600			.56	12		.09	
2428	2434	6.0	60'	.08	.18	2.52	11	.30	800			.18		2.52	11		.30	
2434	2440	6.0		1.59	Cu equiv	$19.25			83		501			.74	2		.18	
2440	2445	5.0							31		13		110		-1		.18	
2445	2450	5.0							15		20		82		-1		-.02	
2450	2455	5.0							30		16		128		-1		-.02	
2455	2460	5.0							38		61		439		-1		.08	
2460	2465	5.0							42		128		604		-1		-.02	
2465	2470	5.0							335		206		456		6		.08	
2470	2475	5.0							25		171			.22	1		.10	
2475	2480	5.0							76		273			.12	18		-.02	
2480	2485	5.0							136		320			.11	16		.07	
2485	2490	5.0							230		260			1.54	8		.17	
2490	2495	5.0	10'	.11	.67	7.04	34	2.55		.16		.70		9.80	34		5.10	
2495	2500	5.0		4.69	Cu equiv	$56.90			657			.64		4.27	34		.79	
2500	2505	5.0							191			.45		.70	30		.23	
2505	2510	5.0							18		145		475		1		.26	
2510	2515	5.0							52			.16	282		6		-.02	
2515	2520	5.0							62		74		140		-1		-.02	
2520	2525	5.0							168		94		863		3		.38	
2525	2530	5.0							112		68		610		-1		-.02	
2530	2535	5.0							113		241			.18	1		.13	
2535	2540	5.0							45		29		386		-1		.28	
2298.5	2434	135.5	.21	.41	2.67	35	.82											
			2.11	Cu equiv	$25.59													

KAT MINE DDH-8

SAMPLE TYPE Drill Core NO. OF SAMPLES 20

REMARKS Au & As to Skyline Labs - Tucson

STORAGE BOX NO.

SUBMITTAL NO. 73-28-34

DATE SUBMITTED 4/22/74

SUBMITTED BY G. Parsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ft		ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz.s Ag				Cogs
2320-2324.5	4.5			0.09			0.13			4.85		14	0.41				
2324.5-2327	2.5			0.08			0.07			0.50		26	0.76				
2327-2336	9.0			0.06			0.14			0.82		20	0.58				
2336-2342	6.0			0.15			1.10			10.38		48	1.40				
2342-2347	5.0			0.21			0.31			5.90		61	1.78				
2347-2352	5.0			0.61			0.27			2.15		139	4.05				
2352-2359	7.0			0.05			0.53			1.75		31	0.90				
2359-2363.6	4.6		300				0.60			0.90		17	0.49				
2363.6-2368	4.4			0.13			2.95			4.27		58	1.69				
2368-2377	9.0			0.40			0.07			0.71		8	0.23				
2377-2381	4.0			0.62		150				0.09		4	0.12				
2381-2384	3.0			0.83			0.16			6.55		8	0.23				
2384-2395	11.0			0.06		360				0.36		4	0.12				
2395-2400.7	5.7		280			250				0.11		4	0.12				
2400.7-2408	7.3			0.12			0.26			1.36		10	0.29				
2408-2413	5.0		250				0.38			1.93		8	0.23				
2413-2418	5.0			0.21			0.21			2.98		30	0.87				
2418-2423	5.0			0.24			0.14			5.65		23	0.67				
2423-2428	5.0			0.07			0.06			0.56		12	0.35				
2428-2434	6.0			0.08			0.18			2.52		11	0.32				

8

KAY MINE DDH-8

SAMPLE TYPE Drill Core NO. OF SAMPLES 20

REMARKS Au & As to Skyline Labs - Tucson

STORAGE BOX NO.

SAMPLE CONCENTRATION 1/100

SUBMITTAL NO. 73-28-34

DATE SUBMITTED 4/22/74

SUBMITTED BY G. Parsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

Sample No.		ft	ppm Cu	% Cu		ppm Pb	% Pb		ppm Zn	% Zn		ppm Ag	Oz. Ag	Cu eq			
2320-2324.5	111	4.5		0.09						4.85		14	0.41	1.21			
2324.5-2327	112	2.5		0.08						0.50		26	0.76	0.38			
2327-2336	113	9.0		0.06						0.82		20	0.58	0.38			
2336-2342	114	6.0		0.15						10.38		48	1.40	2.69			
2342-2347	[illegible]	5.0		0.21						5.90		61	1.78	1.91	2.27 / 16		
2347-2352	[illegible]	5.0		0.61						2.15		139	4.05	2.11			
2352-2359	[illegible]	7.0		0.05						1.75		31	0.90	0.65			
2359-2363.6	118	4.6	300							0.90		17	0.49	0.13			
2363.6-2368	119	4.4		0.13						4.27		58	1.69	3.00			
2368-2377	[illegible]	9.0		0.40						0.71		8	0.23	0.61			
2377-2381	[illegible]	4.0		0.62						0.09		4	0.12	0.67			
2381-2384	[illegible]	3.0		0.83						6.55		8	0.23	2.27			
2384-2395	[illegible]	11.0		0.06						0.36		4	0.12	0.17			
2395-2400.7	[illegible]	5.7	280							0.11		4	0.12	0.05			
2400.7-2408	[illegible]	7.3		0.12						1.36		10	0.29	0.48			
2408-2413	126	5.0	250							1.93		8	0.23	0.47			
2413-2418	127	5.0		0.21						2.98		30	0.87	1.06			
2418-2423	128	5.0		0.24						5.65		23	0.67	1.60			
2423-2428	129	5.0		0.07						0.56		12	0.35	0.28			
2428-2434	130	6.0		0.09						2.52		11	0.32	0.69			

8

PROJECT Kay Mine (K-8) (Ariz.)

SAMPLE TYPE Drill Core NO. OF SAMPLES 42

REMARKS Au will follow from SWAC

STORAGE BOX NO.

SUBMITTAL NO. 76-42-4

DATE SUBMITTED 10-15-76

SUBMITTED BY R.G. Rowe

PROJECT NO. 3293-8

PAGE 1 OF 2 PAGES

SAMPLE CONCENTRATION 2/100

Sample No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
1770-1780	134		20		106		<1
—							—
1850-1860	188		18		118		<1
—							—
1900-1910	141		25		94		<1
—							—
1950-1960	74		17		103		<1
—							—
2000-2010	108		16		200		<1
—							—
2050-2060	130		19		364		<1
—							—
2090-2100	135		30		73		<1
—							—
2150-2160	104		91		239		<1
—							—
2180-2190	90		23		70		<1
—							—
2190-2194	92		78		164		<1
2194-2197		0.25	61			0.13	6
2197-2200	101		41		120		<1
2200-2205	79		43		79		<1
2205-2210	23		49		52		<1
2210-2215	11		51		54		<1
2215-2218.2	27		49		65		<1
—							—
2270.8-2279.8	248		40		334		<1
—							—
2279.8-2285	102		18		190		<1
2285-2290	52		17		114		<1
2290-2295	103		22		121		<1
2295-2298.5	102		229		390		2
—							—
2434-2440	83		501			0.74	2
2440-2445	31		13		110		<1
2445-2450	15		20		82		<1
2450-2455	30		16		128		<1
2455-2460	38		61		439		<1
2460-2465	42		128		604		<1
2465-2470	335		206		456		6
2470-2475	25		171			0.22	1
2475-2480	76		273			0.12	18
2480-2485	136		320			0.11	16
2485-2490	230		260			1.54	8
2490-2495		0.16		0.70		9.80	34
2495-2500	657			0.64		4.27	34
2500-2505	191			0.95		0.70	30
2505-2510	18		145		475		1
2510-2515	52			0.16	282		6
2515-2520	62		74		140		<1

[illegible]

10-18-76

PROJECT Kay Mine (K-8) (Ariz.)

SAMPLE TYPE Drill Core

NO. OF SAMPLES 42

REMARKS Au will follow from SWAC

STORAGE BOX NO.

SUBMITTAL NO. 76-42-4

DATE SUBMITTED 10-15-76

SUBMITTED BY R.G. Rowe

PROJECT NO. 3293-8

PAGE 2 OF 2 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
2520-2525	168		94		863		3
2525-2530	112		68		610		<1
2530-2535	113		241			0.18	1
2535-2540	45		29		386		<1

Martin H. Mitchell
10-19-76

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E HOLE No. K-8
Collar elev. 2084' By R. Rowe Scale 1" = 200' Date 6-76 P. 1

Recovery	Base Metal Mineralization	Pyrite Limonite	Ore Intervals	Color	Foliation	Rock Type		ANALYSES ELEMENT Cu %	Au PPM	Pb %	Zn %	Ag PPM
							K-8 1" = 200' Summary Log					
							WEDGE OFF K-6					
							BEGIN CORE AT 1539'					
					61		¢ SCHIST					
					56		C ¢ SCHIST } Chloritic tuffaceous metaseds					
					60		¢ ¢ SCHIST					
					61		m.g. otz eye tuff					
		+ py			60-65		f.g. felsic lapelli (qtz eye) tuff					
					63		felsic tuffaceous metaseds					
		3% py	} CLAY RICH		65		mg/fg felsic tuff					
		+ py			60							
		5% py			57		graphitic metaseds / mg/fg felsic tuff					
		1% py [2-10%]			60		mg/fg felsic tuff					
					60		m-cse g felsic [lapelli] tuff					
		2% py			57							
		+ py										
	3% Cu 2% Zn	25% py 20% py 25% py			50		m.g. feldspar Xtal tuff (m.s.)					
	65 Zn 56 Zn 2 Cu 4 Zn	1% py 70% py 30% py			48		fg/mg felsic tuff (m.s.)					
	.2 Cu 4 Zn	25% py			44		¢ sulfide [felsic tuff] exhalite ?					
	Cu - Zn - .2 Cu 3 Zn	[3-5%] 60% py 25% py			41-53 / 44		mg. ¢ sulfide BLK ¢ tuff / tuffaceous greywacke (m.s.) ¢ sulfide exhalite					
		3% py			47-61		fg-mg felsic tuff					
		5% [40%]			50							
		0-1% py			45							
					42-50		tuffaceous greywacke					
					43		m.g. felsic tuff					
							T.D. 2598'					

PROJECT KAY MINE #3293 HOLE No. K-8

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 1

Recovery	Base Metal Mineralizatn	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
00												
20												
40												
60												
80												
00												
20							WEDGE OFF FROM K-6 @ 1539' WEDGE 1/24/74					
539 40 80				dk grn	62°		Chlorite schist (Limy tuffaceous metasedS)					
98+	–	–					stg fol Lam 1/16-1/4" f.g. ϕ tuff / ϕ Limy metasedS					
98+												
98+					60°							
1560 0							WEDGE: NO CORE Calcite chlorite schist (Lime / Limy tuffaceous metasedS)					
98+				dk grn	56°		stg fol Lam 1/32-1/4" bands of calcite / Limy tuffaceous metasedS / tuff					
98+												
98+	–	–		gry								
98+												
98+												
1580 0							WEDGE: NO CORE Quartz chlorite schist (ϕ tuffaceous metasedS)					
98+	–	Tr py		med grn	60°		stg fol Lam 1/8-1/4" bands of tuff / ϕ f-med gr metasedS					
98+							Quartz chlorite sericite schist (greye m.g. tuff)					
98+	–	–		med gry grn			description next page					
1600												

PROJECT KAY MINE #3293 HOLE No. K-8

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 2

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite	Color	Foliation	Rock Type	Description	Interval	Cu	Pb	Zn	Ag
1600	98+	–	–				Qtz, chlorite, sericite schist (Qtz eye tuff)					
	0						WEDGE: NO CORE					
	98+			med grn grey	61°							
	98+						} Qtz & schist: f.g.					
1620	20	–	–	dk olive grn			} meta andesite dike					
				med grn grey	63°		- mod fol - uniform texture - med - cse grained - 40% 1-2 mm felsic - inter frags 30% 2-5mm qtz eyes 30% ribbony, wispy f.g. & tuff matrix					
1640					61°							
							WEDGE ?? REAMING ?? NO CORE					
1660				dk grn grey	65°		} BX CORE IN BOX } f.g. Lam & schist					
	98+			med grn grey			} chloritic Quartz sericite schist (felsic qtz eye Lapelli tuff)					
1680		–	tr py-d		60-65°		- mod fol - uniform texture 60% ghosty to well defined qtz eye Lapelli frags 5-15mm 40% f.g. sericitic tuff lam, wisps + streaks - beg. more qtz rich with depth					
				Hary to milky white								
1700	25				well fol'd unit							
	20						} abun f.g. Lam felsic tuff					
1720	30	–										
	85											
1740				med grn, grn	pd fol		Quartz sericite schist (felsic tuffaceous metasedi)					
				buff grey	62°		- stg fol - stg Laminated 1/16 - 1/4" bands 30-70% ∅ med gr greywacke type sandstone 70-30% f.g. felsic tuff + tuffaceous interbeds occuring as bands, wisps, lens. gry to buff color - pyrite very finely divided, occuring disseminated +/or within bands					
1760		–	<.5 py-d [2%]									
		–	3 py-d	beg med to dk gry w/ inc pyrite	64°				134	.06	20	106	-1
		–	Tr py									
1780		–	5 py-d				Lapelli frags beg. common					
		–	3 py-d	med gry buff	65°		Sericite quartz schist (felsic fine/med gr tuff) - stg fol - Laminated 1/16 - 1/4" bands 60% med gr xtal tuff 40% f.g. tuff					
		–	1 py-d									
1800												

PROJECT KAY MINE #3293 HOLE No. K-8

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 3

Depth	Recovery	Base Metal Mineralizatn	Pyrite Limonite	Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	ppm Au	Pb	Zn	ppm Ag
1800	98, 75, 75, 75, 98, 75, 85, 90	–	2-4 py; 1 py; 2-4 py	med gry	66°		Sericite, clay, qtz schist (felsic tuff) - mod. poor fol - med to cse grained - weakly laminated - very crumbly because 10-40% white clay. finely divided pyrite						
1820	95, 95	–	Tr py	med gry yel	60°		Quartz sericite schist (felsic Xtal tuff) - stg fol - mod lam - uniform texture 50-80% m.gr. Xtal tuff 20-50% f.g tuff laminae, wisps + streaks locally sparce lapelli frags (Ø)						
1840	98%	–	5 py	med gry buff	59°		Quartz sericite schist (felsic Xtal tuff) stg lam f.g tuff/m.g. tuff cse plotchy pyrite						
1860		–	10 py; 5 py	med gry	61°		poor lam cse tuff w/ streaks + wisps of f.g. tuff fn divided pyrite		188	.04	18	118	-1
	15, 90, 90, 90, 90, 90	–	2 py; 5 py; 4 py	med blk	60°		Quartz graphite schist (carbonaceous tuffaceous metased) - stg fol - stg lam 60% Ø bands Xtal tuff? sedimentary 30% carbonaceous bands 10% wispy f.g. tuff } stg shred. Ø matl often lenticular pods						
1880		–	2 py										
	98%	–	1 py		55°		Quartz sericite graphite schist (felsic Xtal tuff ± graphite) - stg fol - v. uniform texture - laminated						
1900		–	3 py	med gry buff	56°		stg 40-90% m.g. tuff (sedimentary in part?) [med grey] stg graphite 10-60% f.g. tuff, laminae, wisps, streaks [buff to green-yellow] 0-5% carbonaceous material [black]		141	.06	25	94	-1
1920		–	1 py		57°		- pyrite blotchy 3 stg graphite						
1940		–	1 py; 3 py	med gry buff	56-61°		Quartz sericite schist (felsic Xtal tuff) - stg fol - mod laminated						
1960		–	.5 py; 2 py		stg fol		Qtz rich zone 60-90% m.g. tuff 10-40% f.g. tuff as lam, wisps, streaks		74	.10	17	103	-1
		–	5 py; .5 py		60°		- locally tuff may be cse grained - texture somewhat variable + patchy - sparce Ø lapelli frags - pyrite finely divided						
1980		–	3 py		56°								
		–	1 py										
2000		–	3 py										

PROJECT KAY MINE #3293 HOLE No. K-8

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1"=20' Date 6-76 Pg 4

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite	Color	Foliation	Rock Type	Description	INTERVAL	Cu	ppm Au	Pb	Zn	ppm Ag
2000		-	tr M	med gry buff	57°		Quartz sericite schist (felsic Xtal tuff) - stg fol - mod laminated 50-95% m.g. Xtal tuff 5-50% f.g. tuff - pyrite finely disseminated to med Xtalline, as or in laminae - locally bedding contorted - fairly uniform texture + banding		108	.06	16	200	-1
		-	10M										
		-	3M										
2020		-	1M		60°		Qtz rich						
			[5M]										
2040					60°								
	98+%												
2060		-	4M	med gry buff	60°				130	.10	10	364	-1
		-	1M		62°								
2080		-	2M		56°								
2100	20 80 98	-	1M	dk gry	63°		Sericite quartz schist (felsic tuff) - stg fol - poorly lam - fine grained w/ sparce m.g. xtals		135	.18	30	73	-1
	0	-	-				WEDGE: NO CORE						
2120		-	1M [2M]	dk gry tan	60°		Quartz sericite schist (felsic Xtal lithic tuff) - stg fol - wk lam - cse grained - locally lapelli lithic frags common beg med gr.						
		-	3M	med gry			- med grained - evenly lam - NO lapelli						
2140			1M	med gry	58°		- med-cse grained - loc lapelli lithic frags common - mod bedded - locally slightly contorted		104	.16	91	239	-1
	98%												
2160		-	2M		56°								
				med gry buff			- med-cse Xtal tuff / felsic lapelli lithic tuff some felsic lapelli lithic frags						
2180		-	2M	Lt gry	57°		- fine grained - weakly lam defined by slight color banding - sparce lapelli frags		40	-.02	23	70	-1
		tr Tr	-				← qtz-tr zone, vein? chemical?		92	-.02	78	164	-1
		1cm	5M						.25	.82	61	.13	6
2200							Description next page		101	-.02	41	120	-1

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E HOLE No. K-8
Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 5

Interval	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Foliation	Rock Type	Description	Cu	Au ppm	Pb	Zn	Ag ppm
2200													
		-	-		med gry	55		- poorly fol Feldspar quartz sericite schist (Xtal tuff) - med grained, 75% (?) Euhedral to subhedral feldsp - loc qtz rich zone - massive Dolomite?	79	-.02	43	79	-1
									23	-.02	49	52	-1
									11	-.02	51	54	-1
									27	-.02	49	65	-1
2220		3 cpy .5 sp	20 py		med-dk gry			Feldspar Sulfide quartz sericite schist	2.80	2.10	215	.81	81
		5 cpy	20 py 5 sp	pyrite					1.91	1.48	380	.15	9
		30 cpy	30 py					- poorly fol	15.26	1.49	900	.83	25
		-	-					NO CORE: CEMENT - mod laminated	.09	.04	30	2.10	2
		4 cpy	20 py		med-dk gry	N 50°		- med gr Xtal tuff - pyrite fine grained occurring lam (bands). Loc blotchy - cpy relatively blotchy	1.00	.39	.29	1.04	7
2240		10 cpy	30 py						4.45	3.10	.22	2.22	18
									3.50	2.78	300	2.81	15
		6 cpy 3 cl	60 py						6.50	3.08	900	.70	20
									2.80	2.35	.21	.69	20
	98+%	5 cpy 2 cl	40 py						3.60	.47	800	.43	11
		15 cpy 3 cl	25 py										
2260		1 cpy gn?	15 py					- 7 stg blk ϕ	11.00	.81	.16	1.97	55
		-	3 py						.30	2.30	800	6.90	55
		3 cpy	10 py			42°			.24	.47	220	.71	11
		-	1 py		med gry grn-			Quartz sericite schist - 3 stg blk ϕ - mod fol (Xtal lithic tuff) - fine to med gr [Lapilli]	1.25	3.29	700	.89	27
									248	.14	40	334	-1
2280		2 cpy 3 cl	25 py			48°			.85	1.61	.28	4.75	27
								- fine to med gr [Lapilli] - poorly lam. Usually a fine tuff matrix with varying amounts of m.g. felsic pyroclastics - locally sulfide zone, qtz rich + wk banding	102	.22	18	190	-1
		-	1 py						52	-.02	17	114	-1
						49°			103	-.02	22	121	-1
2300									102	.40	229	390	2
		2 cpy 1 gn? 5 cl	70 py		dull gry blue			Sulfide quartz sericite - wk fol - Banded, poorly to mod (ϕ Sulfide exhalite) ¼-1" bands of ϕ, Sulfide, Sulfide tuff mixture - commonly contorted - commonly mottled or patchy texture - pyrite fine grained	.38	3.29	1.50	7.25	97
		cpy	25 py						.29	1.02	.28	1.28	69
									.23	.72	.11	.70	40
2320		2 cpy	15 py			44°			.83	2.19	.43	2.26	180
		2 cl cpy .5 sp	35 py						900	.27	.13	4.85	14
		-	5 py 80 Au		med gry			Quartz sericite schist (felsic tuff) - mod fol - mixture of f.g. tuff + m.g. ϕ tuff	800	.24	700	.50	26
		[gn gy]	-						600	.33	.14	.82	20
					OK gry			- VAGUE BANDING Sulfide quartz sericite (ϕ Sulfide exhalite) - INTIMATE MIXTURE OF PYRITE - SPHALERITE - QTZ - DEGRY TUFF	.15	.57	1.10	10.38	48
2340		10 cl gn? cpy	35 py			45°			.21	1.62	.31	5.90	61
					dk gry	41°		- mod to poor fol Qtz, fsp, Sulfide, Black Chlorite schist - Looks pyroclastic. Mixture of (sulfide tuff) ϕ matl, sulfides, m grained Xtal tuff, f.g. tuff (blk ϕ) - mod contorted	.61	1.53	.27	2.15	139
	60%	cp	20 py						500	.43	.53	1.75	31
2360		-	3 py						300	.36	.60	.90	17
		5 cl 3 gn tr cp	25 py			50°			.13	2.80	2.85	4.27	58
	98+%	2 cpy	15 py		dk gry blk			- mod fol Black Chlorite, sulfide, sericite (?) - Looks pyroclastic. Mixture of (ϕ sulfide tuff?) ϕ matl, tuff (blk ϕ) sulfide - well contorted - sericite + ϕ Lapilli frags	.40	-.02	700	.71	8
2380		5 cpy	5 py						.62	-.02	150	.09	4
		5 cpy	40 py			53°			.83	.36	.16	6.55	8
		-	2 py		med gry			} sericite schist } ϕ exhalite? Quartz sericite schist - poorly fol tuffaceous greywacke - m.g. ϕ stone locally w/ tuffaceous wisps	600	.12	360	.36	4
		tr cpy	40 py			49°							
		-	tr py										
2400		-	3 py						280	.06	250	.11	4

PROJECT KAY MINE #3293 HOLE No. K-8
Co-ord. 1,113,164 N 425,758 E
Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 6

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite	Color	Foliation	Rock Type	Description	INTERVAL	Cu	Pb	Zn	Ag
2400		2al	60py				**Sulfide quartz schist**		.12	.20	.26	1.36	10
		Tr gn	5py	dk gry			- poorly banded (Ø, sulfide exhalite)		250	.21	.38	1.93	8
		Tr py 2al	60py				- sulfides f. grained. Very locally blotchy		.21	1.40	.21	2.98	30
2420		10al	40py				- quartz gangue granular appearing		.24	2.00	.14	5.65	23
		5al	40py						700	.09	600	.56	12
		2al	20py						800	.30	.18	2.52	11
		—	10py										
2440				lt pale gry	55°		- stg fol **Sericite quartz schist** (felsic tuff) - fine grained - mottled		83	.18	501	.74	2
									31	.18	13	110	-1
									15	-.02	20	82	-1
		—	2py						30	-.02	16	128	-1
2460	90%						**Quartz sericite** (felsic tuff) patchy mottled texture (Ø lapilli tuff?)		38	.08	61	439	-1
				med gry	47°-61°		poorly lam wk banding of sulfides		42	-.02	128	604	-1
		—	4py						335	.08	206	456	6
									25	.10	171	.22	1
2480									76	-.02	273	.12	18
		—	40py						136	.07	320	.11	16
		—	5py						230	.17	260	1.54	8
		al?	50py	med gry	4°		wed flaser bedding sulfide commonly in laminae		.16	5.10	.70	9.80	34
		—	7py						657	.79	.64	4.27	34
2500		—	25py				fine-med gr felsic tuff		191	.23	.45	.70	30
		—	Tr py				m.g. Xtal tuff		18	.26	145	475	1
		Tr gn	3py	med gry	41°		v.f.g. Ø; m.g. tuff massive **Quartz sericite schist** (felsic tuff)		52	-.02	.16	282	6
2520	90% 98% 20	—	Tr py	med gry	50°		flaser bedded - lenzoidal texture m.g. tuff? w/ f. lenses; sedimentary in part?		62	-.02	74	140	-1
									168	.38	94	863	3
									112	-.02	68	610	-1
	98 98 98 98 98 98 98 98 98	—	1py	pale green			v.f.g. - massive; m.g. Xtal tuff massive **Sericite quartz schist** (felsic tuff)		113	.13	241	.18	1
2540									45	.28	29	386	-1
					45°		fine/m.g. mixture fragmental banding w/ f.g. laminae gradational contact						
			Tr py	med gry									
		—	[1py]		42-50°		**tuffaceous greywacke** - mod fol - relatively massive - loc Ø lenses, pods, bands - somewhat sericitic						
2580	90%			med gry	45°		**Quartz sericite schist** (felsic tuff? tuffaceous greywacke?) - mod fol - med grained - massive w/ scattered white blotches up to ½" - loc wk laminated						
		—	1py		43°								
					39°								
2600							T.D. 2598' TERM. 4/20/74						

SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

WIL WRIGHT
ARIZONA REG. NO. 5875

DNYANENDRA A. SHAH
ARIZONA REG. NO. 8888

P.O. BOX 7517
TUCSON, ARIZONA 85725

710 E. EVANS BLVD.
PHONE 602-294-5811

Exxon Company
Mr. Martin H. Hibbetts
2425 N. Huachuca Drive
Tucson, Arizona 85705 Project 3293

JOB # 019934
RECEIVED 10-19-76
REPORTED 10-22-76

SAMPLE NUMBER	GOLD XXXPPM	SILVER OZ.*	LEAD %	COPPER %	ZINC %	MOLYBDENUM %
-8-						
1770-1780	.06					
1850-1860	.04					
1900-1910	.06					
1950-1960	.10					
2000-2010	.06					
2050-2060	.10					
2090-2100	.18					
2150-2160	.16					
2194-2197	.82					
2270.8-2276.9/	.14					
2279.8-2285	.22					
2295-2298.5/	.40					
2434-2440	.18					
2440-2445	.18					
2455-2460	.08					
2470-2475	.10					
2490-2495	5.10					
2505-2510	.26					
2520-2525	.38					
2535-2540	.28					

OCT 1976
RECEIVED
TUCSON
MINERALS

MINERALS DEPARTMENT — FIELD

REC'D	CHG:	MIN	ST	PROJECT
MH		Cu	Az	Kay Mine # 3293

TO BE USED FOR: Drill Assays

APPV'D: DIST ✓ APPV'D: HDQRS

DPT	LC	F	B	ST	DST-MIN	UNIT	TYPE	MEM LC
6								
6								

REGISTERED ASSAYER
CERTIFICATE NO.
8888
Dnyanendra
Amrutlal Shah
DATE SIGNED 10-22-76
Arizona U. S. A.

Shah

CHARGE $ 40.00

* Gold and Silver reported in troy oz. per 2,000 lb. ton.

INVOICE

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50100, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427
William L. Lehmbe[illegible]
Arizona Registered Assayer [illegible]

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION		Au ppm
36	K-6	2326.6-2329.6	0.08
37	K-7	2229.2-2231.2	0.25
38		2070-2071	0.25
39		2268.5-2270.2	<0.02
40		2271.2-2277	0.24
41		2289.5-2290	<0.02
42		2290-2295	<0.02
43		2295-2301.1	<0.02
44		2302.9-2308	<0.02
45		2308-2312.2	<0.02
46		2314-2320	<0.02
47		2320-2325	<0.02
48		2325-2330	<0.02
49	K-7	2330-2335.6	<0.02
50	K-8	2285-2290	<0.02
51		2290-2295	<0.02
52		2445-2450	<0.02
53		2450-2455	<0.02
54		2460-2465	<0.02
55		2465-2470	0.08
56		2475-2480	<0.02
57		2480-2485	0.07
58		2485-2490	0.17
59		2495-2500	0.79
60		2500-2505	0.23
61		2510-2515	<0.02
62		2515-2520	<0.02
63		2525-2530	<0.02
64		2530-2535	0.13
65		2180-2190	<0.02
66		2190-2194	<0.02
67		2197-2200	<0.02
68		2200-2205	<0.02
69		2205-2210	<0.02
70		2210-2215	<0.02
71	K-8	2215-2218.2	<0.02

TO:
EXXON COMPANY, U.S.A.
2425 N. Huachuca Drive
Tucson, Arizona 85705

Attention: Martin Hibbetts

REMARKS:
Trace analysis
Project: 3293
Kay Mine

Page 2 of 2

CERTIFIED BY:

DATE REC'D:	DATE COMPL.:	JOB NUMBER
11/11/76	11/26/76	762315

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started 1-24-74 HOLE No. K-8

Date Completed 4-20-74 DIAMOND DRILL ASSAY LOG Sheet No. 1

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
1770	1780	10						134		20		106		-1		.06			
1850	1860	10						188		18		118		-1		.04			
1900	1910	10						141		25		94		-1		.06			
1950	1960	10						74		17		103		-1		.10			
2000	2010	10						108		16		200		-1		.06			
2050	2060	10						130		10		364		-1		.10			
2090	2100	10						135		30		73		-1		.18			
2150	2160	10						104		91		239		-1		.16			
2180	2190	10						40		23		70		-1		-.02			
2190	2194	4.0						92		78		164		-1		-.02			
2194	2197	3.0							.25	61			.13	6		.82			
2197	2200	3.0						101		41		120		-1		-.02			
2200	2205	5.0						79		43		79		-1		-.02			
2205	2210	5.0						23		49		52		-1		-.02			
2210	2215	5.0						11		51		54		-1		-.02			
2215	2218.2	3.2						27		49		65		-1		-.02			
2218.2	2221.5	3.3							2.80	215			.81	81		2.10			
2221.5	2226.6	5.1							1.91	380			.15	9		1.48			
2226.6	2229	2.4							15.26	900			.83	25		1.49			
2229	2230.2	1.2						900		50		210		2		.04			
2230.2	2234	3.8							1.00		.29		1.04	7		.39			
2234	2239	5.0							4.45		.22		2.22	18		3.10			
2239	2241	2.0							3.50	300			2.81	15		2.78			
2241	2246	5.0							6.50	900			.70	20		3.08			
2246	2251	5.0							2.80		.21		.64	20		2.35			
2251	2257	6.0							3.60	800			.43	11		.47			
2257	2261	4.0							11.00		.16		1.97	55		.81			
2261	2264.2	3.2							.30	800			6.90	55		2.30			
2264.2	2268.6	4.4							.24	220			.71	11		.47			
2268.6	2270.8	2.2							1.25	700			.89	27		3.29			
2270.8	2276.9	6.1						248		40		334		-1		.14			
2276.9	2279.8	2.9							.85		.28		4.75	27		1.61			
2279.8	2285	5.2						102		18		190		-1		.22			
2285	2290	5.0						52		17		114		-1		-.02			
2290	2295	5.0						103		22		121		-1		-.02			
2295	2298.5	3.5						102		229		390		2		.40			
2298.5	2307.2	8.7							.38		1.50		7.25	97		3.29			
2307.2	2312	4.8							.29		.28		1.28	69		1.02			
2312	2316	4.0							.23		.11		.70	40		.72			
2316	2320	4.0							.83		.43		2.26	180		2.19			
2320	2324.5	4.5						900			.13		4.85	14		.27			
2324.5	2327	2.5						800		700			.50	26		.24			
2327	2336	9.0						600			.14		.82	20		.33			
2336	2342	6.0							.15		1.10		10.38	48		.57			
2342	2347	5.0							.21		.31		5.90	61		1.62			
2347	2352	5.0							.61		.27		2.15	139		1.53			

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started _____ HOLE No. K-8

Date Completed _____ DIAMOND DRILL ASSAY LOG Sheet No. 2

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
2352	2359	7.0						500			.53		1.75	31		.43			
2359	2363.6	4.6						300			.60		.90	17		.36			
2363.6	2368	4.4							.13		2.95		4.27	58		2.80			
2368	2377	9.0							.40	700			.71	8		-.02			
2377	2381	4.0							.62	150		900		4		-.02			
2381	2384	3.0							.83		.16		6.55	8		.36			
2384	2395	11.0						600		360			.36	4		.12			
2395	2400.7	5.7						280		250			.11	4		.06			
2400.7	2408	7.3							.12		.26		1.36	10		.20			
2408	2413	5.0						250			.38		1.93	8		.21			
2413	2418	5.0							.21		.21		2.98	30		1.40			
2418	2423	5.0							.24		.14		5.65	23		2.00			
2423	2428	5.0						700		600			.56	12		.09			
2428	2434	6.0						800			.18		2.52	11		.30			
2434	2440	6.0						83		501			.74	2		.18			
2440	2445	5.0						31		13		110		-1		.18			
2445	2450	5.0						15		20		82		-1		-.02			
2450	2455	5.0						30		16		128		-1		-.02			
2455	2460	5.0						38		61		439		-1		.08			
2460	2465	5.0						42		128		604		-1		-.02			
2465	2470	5.0						335		206		456		6		.08			
2470	2475	5.0						25		171			.22	1		.10			
2475	2480	5.0						76		273			.12	18		-.02			
2480	2485	5.0						136		320			.11	16		.07			
2485	2490	5.0						230		260			1.54	8		.17			
2490	2495	5.0							.16		.70		9.80	34		5.10			
2495	2500	5.0						657			.64		4.27	34		.79			
2500	2505	5.0						191			.45		.70	30		.23			
2505	2510	5.0						18		145		475		1		.26			
2510	2515	5.0						52			.16	282		6		-.02			
2515	2520	5.0						62		74		140		-1		-.02			
2520	2525	5.0						168		94		863		3		.38			
2525	2530	5.0						112		68		610		-1		-.02			
2530	2535	5.0						113		241			.18	1		.13			
2535	2540	5.0						45		29		386		-1		.28			

S! .INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Au oz/ton	Ag oz/ton	Cu %	Pb %	Zn %				
		ppm in pencil	ppm in pencil							
1	2268.6-2270.8	0.096 3.29	0.52 18	1.13	0.06	0.83				
2	2276.9-2279.8	0.047 1.61	0.70 24	0.81	0.32	4.10				
3	2298.5-2307.2	0.096 3.29	2.13 73	0.38	1.52	7.25				
4	2307.2-2312	0.030 1.03	1.55 53	0.28	0.29	1.03				
5	2312-2316.0	0.021 .72	0.93 32	0.22	0.14	0.67				
6	2316.0-2320.0	0.064 2.19	3.94 135	0.82	0.47	1.82				

34.28

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Single analysis
Project No.: 3293

CERTIFIED BY: William L. Lehmbeck

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK DATE SIGNED 4/15/74 Arizona U.S.A.

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
4/5/74	4/15/74	740596

S! 'LINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm	Ag ppm	Cu %	Pb %	Zn %	Mo ppm
1	2218.2-2221.5	2.10	77.	2.66	0.02	0.77	< 2
2	2221.5-2226.6	1.48	7.6	1.92	0.02	0.15	< 2
3	2226.6-2229	1.49	23.	15.20	0.10	0.70	< 2
4	2229-2230.2	0.04	<0.4	0.08	<0.01	0.02	< 2
5	2230.2-2234	0.39	5.2	1.00	0.29	1.08	< 2
6	2234-2239	3.10	16.	4.40	0.22	2.01	< 2
7	2239-2241	2.78	12.	3.08	0.04	3.01	< 2
8	2241-2246	3.08	16.	5.90	0.10	0.77	< 2
9	2246-2251	2.35	14.	2.28	0.20	0.69	< 2
10	2251-2257	0.47	8.0	3.26	0.11	0.44	< 2
11	2257-2261	0.81	50.0 MP ~~0.52~~	10.70	0.16	1.80	< 2
12	2261-2264.2	2.30	52.	0.24	0.78	6.90	2
13	2264.2-2268.6	0.47	7.2	0.20	0.02	0.87	< 2

APR 1974
RECEIVED
TUCSON
MINERALS

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

REMARKS:
Project No.: 3293-8
Au, Ag, Mo - Trace analysis
Cu, Pb, Zn - Single analysis

CERTIFIED BY:

DATE REC'D: 4/2/74

DATE COMPL.: 4/4/74

JOB NUMBER: 740559

SK .INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

CERTIFICATE OF ANALYSIS

KM-8

MAY 1974 RECEIVED TUCSON MINERALS

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm	As ppm	Au Oz
1	2320-2324.5	0.27	9,600	.008
2	2324.5-2327	0.24	1,050	.007
3	2327-2336	0.33	3,800	.010
4	2336-2342 6	0.57	29,000	.016
5	2342-2347 5	1.62	21,000	.047
6	2347-2352 5	1.53	15,000	.045
7	2352-2359	0.43	3,800	.013
8	2359-2363.6	0.36	1,300	.010
9	2363.6-2368	2.8	7,500	.082
10	2368-2377	<0.02	440	
11	2377-2381	<0.02	160	
12	2381-2384	0.36	950	.010
13	2384-2395	0.12	210	.004
14	2395-2400.7	0.06	1,050	.002
15	2400.7-2408	0.20	6,650	.006
16	2408-2413 5	0.21	4,550	.006
17	2413-2418 5	1.4	22,500	.041
18	2418-2423 5	2.0	54,500	.058
19	2423-2428 5	0.09	6,750	.003
20	2428-2434 6	0.30	16,000	.009

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Trace analysis
Project No.: 3293-8

CERTIFIED BY:

REGISTERED ASSAYER CERTIFICATE NO. 9425 WILLIAM L. LEHMBECK DATE SIGNED Arizona U. S. A.

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
4/26/74	4/30/74	740774

8

PROJECT NAME - No. KAT

Date Started 1-24-74

Date Completed 4-20-74

DIAMOND DRILL ASSAY LOG

HOLE No. K-8

Sheet No. 1

Coordinates 1,113,164 N., 425,758 E.

Collar Elevation 2084'

108.1' ORE

Bedrock Elevation 2084'

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1770	1780	10							134		20		106		-1		.06	
1850	1860	10							188		18		118		-1		.04	
1900	1910	10							141		25		94		-1		.06	
1950	1960	10							74		17		103		-1		.10	
2000	2010	10							108		16		200		-1		.06	
2050	2060	10							130		10		364		-1		.10	
2090	2100	10							135		30		73		-1		.18	
2150	2160	10							104		91		239		-1		.16	
2180	2190	10							40		23		70		-1		-.02	
2190	2194	4.0							92		78		164		-1		-.02	
2194	2197	3.0								.25	61			.13	6		.82	
2197	2200	3.0							101		41		120		-1		-.02	
2200	2205	5.0							79		43		79		-1		-.02	
2205	2210	5.0							23		49		52		-1		-.02	
2210	2215	5.0							11		51		54		-1		-.02	
2215	2218.2	3.2							27		49		65		-1		-.02	
2218.2	2221.5	3.3								2.80	215			.81	81		2.10	
2221.5	2226.6	5.1								1.91	380			.15	9		1.48	
2226.6	2229	2.4								15.26	900			.83	25		1.49	
2229	2230.2	1.2							900		50		210		2		.04	
2230.2	2234	3.8	46	4.39	.12	1.42	26	1.77		1.00		.29		1.04	7		.39	
2234	2239	5.0								4.45		.22		2.22	18		3.10	
2239	2241	2.0								3.50	300			2.81	15		2.78	
2241	2246	5.0								6.50	900			.70	80		3.08	
2246	2251	5.0	52.6	3.91	.11	1.34	25	1.72		2.80		.21		.64	20		2.35	
2251	2257	6.0		5.13	Lo Grade		#6226			3.60	800			.43	11		.47	
2257	2261	4.0								11.00		.16		1.97	55		.81	
2261	2264.2	3.2								.30	800			6.90	55		2.30	
2264.2	2268.6	4.4	66	.58	.04	.77	16	1.41		.24	220			.71	11		.47	
2268.6	2270.8	2.2		1.37	Lo Grade					1.25	700			.89	27		3.29	
2270.8	2276.9	6.1							248		40		334		-1		.14	
2276.9	2279.8	2.9								.85		.28		4.75	27		1.61	
2279.8	2285	5.2							102		18		190		-1		.22	
2285	2290	5.0							52		17		114		-1		-.02	
2290	2295	5.0							103		22		121		-1		-.02	
2295	2298.5	3.5							102		229		390		2		.40	
2298.5	2307.2	8.7								.38		1.50		7.25	97		3.29	
2307.2	2312	4.8								.29		.28		1.28	69		1.02	
2312	2316	4.0	26	.36	.66	3.96	75	1.78		.23		.11		.70	40		.72	
2316	2320	4.0								.83		.43		2.26	180		2.19	
2320	2324.5	4.5							900			.13		4.85	14		.27	
2324.5	2327	2.5							800		700			.50	26		.24	
2327	2336	9.0							600			.14		.82	20		.33	
2336	2342	6.0	16	.31	.59	2.41	81	1.20		.15		1.10		10.38	48		.57	
2342	2347	5.0								.21		.31		5.90	61		1.62	
2347	2352	5.0								.61		.27		2.15	139		1.53	

PROJECT NAME - No. _____ Location _____ County _____ State _____

Date Started _____

Date Completed _____

DIAMOND DRILL ASSAY LOG

HOLE No. K-8

Sheet No 2

Coordinates _____, _____ Collar Elevation _____ Bedrock Elevation _____

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.		COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
2352	2359	7.0							500			.53		1.75	31		.43	
2359	2363.6	4.6							300			.60		.90	17		.36	
2363.6	2368	4.4								.13		2.95		4.27	58		2.80	
2368	2377	9.0	20.4	.39	.69	222	18	.66		.40	700			.71	8		-.02	
2377	2381	4.0								.62	150		900		4		-.02	
2381	2384	3.0	48'	.28	.62	3.42	41	.78		.83		.16		6.55	8		.36	
2384	2395	11.0		2.66	Coequiv	$32.24			600		360			.36	4		.12	
2395	2400.7	5.7							280		250			.11	4		.06	
2400.7	2408	7.3								.12		.26		1.36	10		.20	
2408	2413	5.0	22.3	.15	.25	282	17	.87	250			.38		1.93	8		.21	
2413	2418	5.0		1.98	Coequiv	$23.98				.21		.21		2.98	30		1.40	
2418	2423	5.0								.24		.14		5.65	23		2.00	
2423	2428	5.0							700		600			.56	12		.09	
2428	2434	6.0	60'	.08	.18	2.52	11	.30	800			.18		2.52	11		.30	
2434	2440	6.0		1.59	Coequiv	$19.25			83		501			.74	2		.18	
2440	2445	5.0							31		13		110		-1		.18	
2445	2450	5.0							15		20		82		-1		-.02	
2450	2455	5.0							30		16		128		-1		-.02	
2455	2460	5.0							38		61		439		-1		.08	
2460	2465	5.0							42		128		604		-1		-.02	
2465	2470	5.0							335		206		456		6		.08	
2470	2475	5.0							25		171			.22	1		.10	
2475	2480	5.0							76		273			.12	18		-.02	
2480	2485	5.0							136		320			.11	16		.07	
2485	2490	5.0							230		260			1.54	8		.17	
2490	2495	5.0	10'	.11	.67	709	34	2.55		.16		.70		9.80	34		5.10	
2495	2500	5.0		4.69	Coequiv	$56.90			657			.64		4.27	34		.79	
2500	2505	5.0							191			.45		.70	30		.23	
2505	2510	5.0							18		145		475		1		.26	
2510	2515	5.0							52			.16	282		6		-.02	
2515	2520	5.0							62		74		140		-1		-.02	
2520	2525	5.0							168		94		863		3		.38	
2525	2530	5.0							112		68		610		-1		-.02	
2530	2535	5.0							113		241			.18	1		.13	
2535	2540	5.0							45		29		386		-1		.28	
2298.5	2434	135.5	.21	.41	267	35	.82											
			2.11	Coequiv	$25.59													

PROJECT KAY MINE #3293
Co-ord. 1,113,164 N 425,758 E
HOLE No. K-9
Collar elev. 2084' By R. Rowe Scale 1" = 200' Date 6-76 P. 1

Recovery	Base Metal Mineralization	Pyrite Limonite	Ore Interval	Color	Foliation	Rock Type	Description	Copper Equivalent	Analyses Element % Cu	ppm Au	% Pb	% Zn	ppm Ag
							K-9 1" = 200' Summary Log						
							WEDGE OFF K-6						
							BEGIN CORE @ 1571'						
					60		ss schist / ss schist } chloritic tuffaceous metasediment						
		-			55-60		m.g. qtz eye tuff						
					55-63		f.g. felsic Lapelli (qtz eye) tuff						
		8% py			65		felsic tuffaceous metasediment						
	-	py (2%)			57-64		graphitic metaseds / tuffaceous metaseds						
					60-65		f-m.g felsic tuff						
	← Cu+												
					60		f-m.g. felsic Lapelli tuff						
					55-60		blk ¢, ¢ tuff sparce lapelli						
		2% py						1.01	1.28	.08	.07	.28	.7
	.5% Cu Zn-	py-			45-55		f-m.g. felsic tuff						
	-				47-54		m-cseg. felsic Lapelli tuff						
	2% Cu	2% py			45								
					50		m-cseg. intermed Lapelli tuff						
					40		f-m.g. intermed tuff						
		[py-]			40		blk ¢ mg tuffaceous metased / f.m.g. felsic tuff						
					38								
					46		tuffaceous greywacke						
					30		f-m.g. intermed tuff						
					42		tuffaceous greywacke						
					42								
	← Cu+				35		f-m.g. felsic-intermed tuff						
					30								
							T.D. 2700'						

Depth: 0, 20, 40, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 80, 00

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1"=20' Date 6-76 P. 1

Recovery	Base Metal Mineralizat'n	Pyrite Limonite		Color	Foliation	Rock Type		INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn	
0													
20													
40													
60													
80													
00													
20													
40													
60													
1571	80												
	70	-	-	Alt Alt Alt	60°		-sta fol -lam ⅛-¼ bands Calcite/limy tuffaceous metasedS/ft	Calcite chlorite schist (lime/limy tuffaceous metaseds)					
1580	80				60°								
				med grn				Quartz chlorite schist (¢ tuffaceous metaseds)					
							WEDGE: NO CORE -sta fol -Lam ⅛-¼ bands of tuff/¢ f.g.-m.g. metaseds						
	-	-		med gray grn	60°			Quartz chlorite sericite schist (qtz eye m.g. tuff)					
1600													

WEDGE OFF FROM K-6 @ 1571'

WEDGE 4/23/74

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 2

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
1600	98, 98	–	–		med gry, gry			Quartz chlorite sericite schist (qtz eye tuff)					
	0							WEDGE: NO CORE					
1620	98, 98, 98	–	–		med gry, gry; olive gry	55-60°		} meta andesite dike					
	0							WEDGE: NO CORE					
1640	98, 98, 98, 98, 98, 98	–	–		med gry, gry; med gry; med gry	62°		- mod foil - uniform texture - med to coarse grained - 40% 1-2 mm felsic-mafic frags 30% 2-5 mm qtz eyes 30% chlorite, wispy f.g. & tuff matrix } f.g. banded qtz, & schist					
1660	35, 98				med gry, gry			} chloritic					
	0							WEDGE: NO CORE					
1680	98, 98, 98, 98, 98, 98, 98, 98	–	Tr py		Lt gry to milky white	55-63°; well fol'd; 60-63°		Quartz sericite schist (felsic qtz eye lapilli tuff) - mod foil - uniform texture - 60% ghosty to well defined qtz eye lapilli frags 5-15 mm 40% f.g. sericitic tuff laminae, wisps & streaks - beg more qtz rich w/ depth					
1700	98, 98												
	0							WEDGE: NO CORE					
1720	98	–	–			63-67°							
1740		–	Tr py					Quartz sericite schist (felsic tuffaceous metasediment) - stg foil - stg laminated 1/16-1/4" bands 30-70% f.g. greywacke type sandstone 70-30% f.g. felsic tuff & tuffaceous interbeds occurring as bands, wisps, lenses. Gray to buff color - pyrite v. finely disseminated, occurring disseminated &/or in bands					
	0							WEDGE: NO CORE					
1760		–	5 py		med gry, gry to buff gry	65°							
	98	–	15 py										
1780		–	5 py										
								} stg graphite					
	0							WEDGE: NO CORE					
	98, 98		2 py		dk gry-blk	62°		} stg graphite Blotchy py					
1800								Quartz graphite / Quartz sericite schist (interbedded: tuffaceous metasediment, carbonaceous metasediments)					

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 3

Depth	Recovery	Base Metal Mineralizat'n	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	ppm Au	Pb	Zn	ppm Ag
1800														
					med gry grn	57-64°		interbedded: - qtz rich greywacke type sediment med grained - f.g. tuff occurring as bands, wisps buff to lt. grn colors - carbonaceous bands						
	98	–	Tr py 2-3%											
1820														
	0							WEDGE: NO CORE where graphite is abundant, strong shearing, producing a podded-lenzoidal texture						
	98+	–	Tr py		med gry grn									
	98+				blk			v. stg graphite						
1840	98+													
	0							WEDGE: NO CORE						
	99+	–	5 py		blk	Δ??		v. stg graphite w/ clay						
	98+													
	98+	–	Tr py		buff									
1860	0					70°		WEDGE: NO CORE						
	98+	–	Tr py		buff									
	98+													
	0							WEDGE: NO CORE						
1880								Quartz sericite schist (felsic tuff)						
	98+	–	–		med gry tan									
	98+													
	99+	–	Tr py					← 6" qtz vn - stg fol - laminated 1/16 - 1/4" bands 30 - 70% f.g. tan to brn felsic tuff 70 - 30% med-crse xtal tuff (siliceous) (may be sedimentary in part)						
	0							WEDGE: NO CORE						
1900					med tan gry	60-65°								
	98+	–	Tr py											
					med gry			mod-crse grain w/ abun Lapelli Lithic fragments - relatively uniform texture						
1920	0							WEDGE: NO CORE						
		–	–		med gry buff			fine-med grained roguely banded very uniform texture very siliceous						
1940	98+	–	2 py			60°								
		–	5 py		med gry to gry grn			Sericite quartz schist (felsic tuff)						
1960						62°		- stg fol - lot lam, podded, lenzoidal						
	0							WEDGE: NO CORE		100		35	243	-1
		–	–					interbedded mixture of fine-med-crse tuff + minor sandy pods + lens.		.31		60	1.67	3
		2 cpm 1 cc++	tr py		med gry to gry grn	65°		qtz veining		115		25	298	1
1980		–	–					- variable texture - locally appears to be felsic lapelli frags						
		–	–		med gry buff			Ofr sericite schist (felsic Lapelli tuff)						
2000														

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1"=20' Date 6-76 P. 4

Recovery	Base Metal Mineralizatn	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	Cu	Au (ppm)	Pb	Zn	Ag (ppm)
2000													
							WEDGE: 130 core Quartz sericite schist						
2020				med tan alg	60		felsic lapilli tuff - moderate fol - mod lam / banded intimate interbedded mixture of f.g. tuff & med-cse xtal lithic tuff containing 5-30% siliceous lapilli frags, commonly stretched in plane of foliation. Locally lapilli frags may be shred bands & ϕ sed matl. ??						
15							50% lapilli frags up to 2"						
2040			1 py		60°								
2060				blk	60°		- stg fol Black Chlorite, quartz sericite schist (interbed lapilli lithic tuff ?) - mottled texture 50-70% v.f.g. blk ¢ 20-40% ϕ beads ~ 2mm 10% ϕ lapilli frags ~1" (rounded)						
2080				med alg	65° 65°		- stg fol Sericite qtz schist (felsic tuff ?) - wk lam. sparse ϕ lam w/ py cse py 5-10mm - m. grained tuff w/ sparse csd (2-4mm) fragments - v. uniform texture		102		21	116	1
	← cpy in band	5 py							62		18	120	1
									210		63	323	1
	.5 cpy	-						2001.2	100		<100	500	1
2100	5 cpy	1+ py			50°		Black Chlorite, quartz, sericite schist (interbed lapilli lithic ?)	2097	1.58		.23	.20	16
	1 cpy	-			med 45°			2102	400		100	.12	5
	2 cc	-		med alg			} sto vn?	2107	970		118	425	9
	-	-		med alg	45° 55°		- sto fol - mottled texture 50-85% v.f.g. blk ¢ 10-30% beads & blotches ϕ matl 2-5mm 10% ϕ bands & lapilli 5-15mm	2112	<100		<100	700	2
	3 cpy	-						2117	.80		.14	.17	22
2120	1 cpy	-						2119	600		900	.21	6
	1 cpy	3 py						2125.4	.20		600	.13	4
	-	2 py			63°			2128.5	800		.15	.41	4
2140	-	3 py					f.g. sericite schist	2136	284		350	458	3
									324		79	306	1
	-	1 py					m.g. qtz blk ¢, sericite schist (xtal tuff) vague fol and banding w/ lam. & mass matrix		810		465	.26	3
									302		.19	.27	28
2160	-	2 py			50-60°				290		610	.17	8
	.5 cpy	1 py							.19		290	896	2
	2 cpy	3 py						2165.5	.31		500	.23	5
	3 cpy	2 py						2166.5	4.21		.28	.91	22
	1 cpy top	1 py						2168.5	1.96		200	.34	4
	.5 cpy	2 py					↓ wk ¢	2174	.30		32	1.47	2
2180					55°		Quartz sericite schist (felsic tuff) - stg fol - fine, locally med grained - v. uniform texture - locally weak lam		190		18	386	1
	-	1 py							84		10	129	-1
									97		13	166	1
					45° 50°				90		10	127	-1
2200									92		14	123	1

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 5

Recovery	Base Metal Mineralizatn	Pyrite Limonite		Color	Foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	ppm Au	Pb	Zn	ppm Ag
2200					54°		felsic [illegible] as [illegible]						
							↓ [illegible]						
2220							Quartz [illegible] schist (felsic xtal lithic tuff)						
					59°		sta fol						
2240							- slight [illegible] relatively [illegible] within each unit						
							- [illegible] crystal lithic tuff						
					53°		[illegible] 3 10% f.g. tuff [illegible]						
2260							[illegible] 5-15% collapsed [illegible] fragments						
							[illegible] 1" [illegible] ½" thick. [illegible]						
2280					51°		- pyrite occurs as or in laminae. blebby		747		37	.16	1
					42-47°								
2300					40°								
					45°								
2320					50°		Quartz [illegible] black chlorite schist (felsic-inter pyroclastic)						
					50°		- mod fol						
2340							- 5-10% felsic [illegible] fragments [illegible] mm [illegible] matrix of fine-med. coarse tuff						
							- locally [illegible] of m matrix						
							- pyrite blotchy [illegible]						
2360					45°								
							ANDESITE DIKE						
2380					40°								
					40°		f.g. tuff Sericite, qtz, grn chlorite schist						
							- sta fol						
							- f.g. tuff w/ 20-30% m.g. felsic fragments 0-20% 0-4 mm qtz eyes (intermediate tuff)		113		18	149	1
2400					40°		locally [illegible] ½-½ beady bands or lenses (flattened pumice)						

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 6

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	PPM Au	Pb	Zn	PPM Ag
2400												
						As above						
2420					49°	Black Chlorite / [illegible] schist; intermediate tuff / felsic tuff / & tuffaceous metasediments						
					50°	m.g. massive felsic tuff						
2440					40°	f.g. massive felsic; & 5% f grade bands up to ½"						
2460					35°	bands		123		35	.24	1
2480					38°	f.g. felsic tuff; med dark; grainsize & color variations						
2500					40°	Greywacke						
					46°	(mostly tuffaceous greywacke)						
2520						beg mine tuffaceous at depth						
2540					~34°	Sericite quartz sch ± black chlorite; felsic-intermediate tuff						
					30°			24		15	63	1
2560												
2580					45°	Tuffaceous greywacke						
					40°	a) see next page						
2600						b)						

PROJECT KAY MINE #3293 HOLE No. K-9

Co-ord. 1,113,164 N 425,758 E

Collar elev. 2084' By R. Rowe Scale 1" = 20' Date 6-76 P. 7

Recovery	Base Metal Mineralizat'n	Pyrite Limonite		Color	Foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	PPM Au	Pb	Zn	PPM Ag
								.13		25	.20	2
								.16		125	.12	1
								1.25		85	930	1
								43		14	146	1
								26		15	119	-1
								30		14	27	-1

2600 2620 2640 2660 2680 2700

Sericite gneiss schist

T.D. 2700' TERM. 7/27/74

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started 3/23/74

Date Completed 7/27/74

HOLE No. K-9

Sheet No. 1

DIAMOND DRILL ASSAY LOG

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

8.5' ore

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton		
1960	1970	10						100		35		243		-1					
1970	1974.2	4.2							.31	60			1.67	3					
1974.2	1980	5.8						115		25		298		1					
2080	2085	5.0						102		21		116		1					
2085	2090	5.0						62		18		120		1					
2090	2094.2	4.2						210		63		323		1					
2094.2	2097	2.8						100		-100		500		1		-.02			
2097	2102	5.0	5.0	1.58	.23	.2	16	.14	1.58		.23		.20	16		.14			
2102	2107	5.0						400		100			.12	5		.08			
2107	2111	4.0						970		118		425		9					
2111	2117.6	6.6						-100		-100		700		2		.04			
2117.6	2119	1.4							.80		.14		.17	22		.22			
2119	2125.4	6.4						600		900			.21	6		.08			
2125.4	2129.5	4.1							.20	600			.13	4		.10			
2129.5	2136	6.5						800		.	.15		.41	4		.21			
2136	2140	4.0						284		350		458		3					
2140	2145	5.0						324		.79		306		1					
2145	2150	5.0						810		465			.26	3					
2150	2155	5.0						302			.19		.27	28					
2155	2160	5.0						290		610			.17	8					
2160	2165.5	5.5							.19	290		896		2					
2165.5	2170.5	5.0							.31	500			.23	5		.07			
2170.5	2171.5	1.0	2.5	1.28	.07	.28	7	.08	4.71		.28		.41	22		.29			
2171.5	2174	2.5		1.51	Avg	.5	18	.28	1.96	200			.34	4		.03			
2174	2176.6	2.6							.30	32			1.47	2					
2176.6	2180	3.4						190		18		386		1					
2180	2185	5.0						84		10		129		-1					
2185	2190	5.0						97		13		166		1					
2190	2195	5.0						90		10		127		-1					
2195	2200	5.0						92		14		123		1					
2280	2290	10.0						747		37			.16	1					
2390	2400	10.0						113		18		149		1					
2460	2470	10.0						123		35			.24	1					
2540	2550	10.0						24		15		63		1					
2650	2653	3.0							.13	25			.20	2					
2653	2660	7.0	—						.16	125			.12	1					
2660	2663.3	3.3							1.25	85		930		1					
2663.3	2670	6.7						43		14		146		1					
2670	2680	10.0						26		15		119		-1					
2695	2700	5.0						30		14		27		-1					

PROJECT NAME - No. KAY MINE-3293 Location T8N, R2E, S4 County Yavapai State Arizona

Date Started 3/23/74

Date Completed 7/27/74

HOLE No. K-9

Sheet No. 1

DIAMOND DRILL ASSAY LOG

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' Bedrock Elevation 2084'

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1960	1970	10						100		35		243		-1			
1970	1974.2	4.2							.31	60			1.67	3			
1974.2	1980	5.8						115		25		298		1			
2080	2085	5.0						102		21		116		1			
2085	2090	5.0						62		18		120		1			
2090	2094.2	4.2						210		63		323		1			
2094.2	2097	2.8						100		-100		500		1		-.02	
2097	2102	5.0							1.58		.23		.20	16		.14	
2102	2107	5.0						400		100			.12	5		.08	
2107	2111	4.0						970		118		425		9			
2111	2117.6	6.6						-100		-100		700		2		.04	
2117.6	2119	1.4							.80		.14		.17	22		.22	
2119	2125.4	6.4						600		900			.21	6		.08	
2125.4	2129.5	4.1							.20	600			.13	4		.10	
2129.5	2136	6.5						800		.	.15		.41	4		.21	
2136	2140	4.0						284		350		458		3			
2140	2145	5.0						324		79		306		1			
2145	2150	5.0						810		465			.26	3			
2150	2155	5.0						302			.19		.27	28			
2155	2160	5.0						290		610			.17	8			
2160	2165.5	5.5							.19	290		896		2			
2165.5	2170.5	5.0							.31	500			.23	5		.07	
2170.5	2171.5	1.0							4.71		.28		.41	22		.29	
2171.5	2174	2.5							1.96	200			.34	4		.03	
2174	2176.6	2.6							.30	32			1.47	2			
2176.6	2180	3.4						190		18		386		1			
2180	2185	5.0						84		10		129		-1			
2185	2190	5.0						97		13		166		1			
2190	2195	5.0						90		10		127		-1			
2195	2200	5.0						92		14		123		1			
2280	2290	10.0						747		37			.16	1			
2390	2400	10.0						113		18		149		1			
2460	2470	10.0						123		35			.24	1			
2540	2550	10.0						24		15		63		1			
2650	2653	3.0							.13	25			.20	2			
2653	2660	7.0							.16	125			.12	1			
2660	2663.3	3.3							1.25	85		930		1			
2663.3	2670	6.7						43		14		146		1			
2670	2680	10.0						26		15		119		-1			
2695	2700	5.0						30		14		27		-1			
	T.D.																

PROJECT Kay Mine (K-9)

SAMPLE TYPE

NO. OF SAMPLES 27

REMARKS Au will follow from Skyline

STORAGE BOX NO.

SUBMITTAL NO. 76-42-18

DATE SUBMITTED 11/8/76

SUBMITTED BY R. Rowe

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	ppm Cu	% Cu	ppm Pb	% Pb	ppm Zn	% Zn	ppm Ag
1960-1970	100		35		243		<1
1970-1974.6		0.31	60			1.67	3
1974.6-1980	115		25		298		1
2080-2085	102		21		116		1
2085-2090	62		18		120		1
2090-2094.2	210		63		323		1
2136-2140	284		350		458		3
2140-2145	324		79		306		1
2145-2150	810		465			0.26	3
2150-2155	302			0.19		0.27	28
2155-2160	290		610			0.17	8
2160-2165.5		0.19	290		896		2
2174-2176.6		0.30	32			1.47	2
2176.6-2180	190		18		386		1
2180-2185	84		10		129		<1
2185-2190	97		13		166		1
2190-2195	90		10		127		<1
2195-2200	92		14		123		1
2280-2290	747		37			0.16	1
2390-2400	113		18		149		1
2460-2470	123		35			0.24	1
2540-2550	24		15		63		1
2650-2653		0.13	25			0.20	2
2653-2660		0.16	125			0.12	1
2663.3-2670	43		14		146		1
2670-2680	26		15		119		<1
2695-2700	30		14		27		<1

Martin H. [illegible]
11-17-76

PROJECT NAME - No. _____ Location _____ County _____ State _____

Date Started 3/23/74

Date Completed 7/27/74

DIAMOND DRILL ASSAY LOG

HOLE No. K-9

Sheet No 1

Coordinates 1,113,164 N., 425,758 E. Collar Elevation 2084' bedrock Elevation 2066'

Footage From	Footage To	Interval	Measured Core Recovery	% Recovery	Hole Size	SG %	SAMPLE No.	COPPER ppm	COPPER %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz/ton	GOLD ppm	GOLD oz/ton
1960	1970	10						100		35		243		-1			
1970	1974.2	4.2							.31	60			1.67	3			
1974.2	1980	5.8						115		25		298		1			
2080	2085	5.0						102		21		116		1			
2085	2090	5.0						62		18		120		1			
2090	2094.2	4.2						210		63		323		1			
2094.2	2097	2.8						100		-100		500		1		-.02	
2097	2102	5.0	5.0	1.58	.23	.2	16 .14		1.58		.23		.20	16		.14	
2102	2107	5.0						400		100			.12	5		.08	
2107	2111	4.0						970		118		425		9			
2111	2117.6	6.6						-100		-100		700		2		.04	
2117.6	2119	1.4							.80		.14		.17	22		.22	
2119	2125.4	6.4						600		900			.21	6		.08	
2125.4	2129.5	4.1							.20	600			.13	4		.10	
2129.5	2136	6.5						800			.15		.41	4		.21	
2136	2140	4.0						284		350		458		3			
2140	2145	5.0						324		79		306		1			
2145	2150	5.0						810		465			.26	3			
2150	2155	5.0						302			.19		.27	28			
2155	2160	5.0						290		610			.17	8			
2160	2165.5	5.5							.19	290		896		2			
2165.5	2170.5	5.0							.31	500			.23	5		.07	
2170.5	2171.5	1.0	8.5	1.28	.07	.28	7 .08		4.71		.28		.41	22		.29	
2171.5	2174	2.5		1.57	[illegible]	[illegible]	18.28		1.96	200			.34	4		.03	
2174	2176.6	2.6							.30	32			1.47	2			
2176.6	2180	3.4						190		18		386		1			
2180	2185	5.0						84		10		129		-1			
2185	2190	5.0						97		13		166		1			
2190	2195	5.0						90		10		127		-1			
2195	2200	5.0						92		14		123		1			
2280	2290	10.0						747		37			.16	1			
2390	2400	10.0						113		18		149		1			
2460	2470	10.0						123		35			.24	1			
2540	2550	10.0						24		15		63		1			
2650	2653	3.0							.13	25			.20	2			
2653	2660	7.0							.16	125			.12	1			
2660	2663.3	3.3							1.25	85		930		1			
2663.3	2670	6.7						43		14		146		1			
2670	2680	10.0						26		15		119		-1			
2695	2700	5.0						30		14		27		-1			

PROJECT KAY MINE (KM-9) (Ariz) SUBMITTAL No. 77-7-41

SAMPLE TYPE NX Core No. OF SAMPLES 89 SUBMITTED BY G.Westra DATE II/10

REMARKS PROJECT No. 3293-9

STORAGE BOX No. PAGE I OF 2 PAGES

SAMPLE CONCENTRATION

SAMPLE No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	Cu	Pb	Zn	Zn/Cu
I600-I6I0	66		11		53					
I6I0-I620	26		8		55					
I620-I630	40		12		61					
I630-I640	65		12		62					
I640-I650	45		9		55					
I650-I660	72		19		78					
I660-I670	97		10		72					
I670-I680	60		88		62					
I680-I690	94		710		34					
I690-I700	9		6		23		57	89	56	1
I700-I7I0	54		6		33					
I7I0-I720	8		15		30					
I720-I730	65		74		73					
I730-I740	156		18		105					
I740-I750	133		20		92					
I750-I760	130		19		123					
I760-I770	132		28		138					
I770-I780	116		28		113					
I780-I790	101		33		107					
I790-I800	79		23		110		97	26	92	0.95
I800-I8I0	94		20		107					
I8J I820	104		20		113					
I82[illegible]-I830	73		14		99					
I830-I840	70		16		120					
I840-I850	100		20		118					
I850-I860	123		22		125					
I860-I870	54		24		118					
I870-I880	53		53		164					
I880-I890	45		36		82					
I890-I900	253		22		105		97	45	115	1.2
I900-I9I0	31		38		111					
I9I0-I920	76		109		231					
I920-I930	36		12		72					
I930-I940	17		11		62					
I940-I950	99		23		89					
I950-I960	64		61		107					
I980-I990	43		20		88					
I990-2000	90		35		121		61	39	110	1.8
2000-20I0	82		31		116					
20I0-2020	90		113		131					
2020-2030	80		50		140					
2030-2040	124		42		131					
2040-2050	46		40		120					
2050-2060	27		27		91					
2060-2070	443		133		300					
20[illegible] 2080	83		64		150		122	63	147	1.2
2200-22I0	88		11		109					
22I0-2220	112		12		100					

Martin H. Abbott
[illegible]

PROJECT KAY MINE (KM-9) (Ariz) SUBMITTAL No. 77-7-41

SAMPLE TYPE NX Core No. OF SAMPLES 89 SUBMITTED BY G. Westra DATE 11/10/77

REMARKS PROJECT No. 3243-9

STORAGE BOX No. PAGE 2 OF 2 PAGES

SAMPLE CONCENTRATION

SAMPLE No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	Cu	Pb	Zn	Zn/Cu
2220-2230	167		61		229					
2230-2240	51		349			0.16				
2240-2250	196		177			0.43				
2250-2260		0.11	74			0.28				
2260-2270	163		19			0.12				
2270-2280	167		17			0.25				
							244	82	1615	6.6
2290-2300	154		21			0.17				
2300-2310	36		28			0.13				
2310-2320	36		43			0.15				
2320-2330	27		87			0.13				
2330-2340	154		325			0.20				
2340-2350	163		294			0.17				
2350-2360	119		120		385					
2360-2370	55		173		795					
2370-2380	61		69		290					
2380-2390	220		41		480		97	128	1272	13.1
2400-2410	186		57		567					
2410-2420	45		34		133					
2420-2430	<5		29		114					
2430-2440	21		13		63					
2440-2450	30		23		136					
2450-2460	135		21		94					
2460-2470	175		48			0.36				
2470-2480	7		21		111					
2480-2490	165		15		81					
2490-2500	9		13		56		78	27	496	6.4
2500-2510	9		20		93					
2510-2520		0.16	25		87					
2520-2530	155		22		64					
2530-2540	<5		17		48					
2540-2550	10		10		40					
2550-2560	233		24		163					
2560-2570	15		10		74					
2570-2580	<5		8		41					
2580-2590	<5		9		43					
2590-2600	<5		7		41		203	15	70	0.35
2600-2610	<5		22		76					
2610-2620	<5		18		75					
2620-2630	17		10		42					
2630-2640	9		17		78					
2640-2650	289		41		780		64	22	210	3.3

Martin H. Abbott
12/10/77

PROJECT KAY MINE - DDH- 9

SUBMITTAL NO. 74-30-14

SAMPLE TYPE NX Drill Core

NO. OF SAMPLES 11

DATE SUBMITTED 6/27/74

SUBMITTED BY G. Parsons

REMARKS

PROJECT NO. 3293

STORAGE BOX NO.

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	% Cu	% Pb	% Zn	ppm Ag	Oz.s Ag
094.2-2087.0	0.01	<0.01	0.05	1	0.03
097.0-2102.0	1.58	0.23	0.20	16	0.46
102.0-2107.0	0.04	0.01	0.12	5	0.15
111.0-2117.6	<0.01	<0.01	0.07	2	0.05
117.6-2119.0	0.80	0.14	0.17	22	0.64
119.0-2125.4	0.06	0.09	0.21	6	0.17
125.4-2129.5	0.20	0.06	0.13	4	0.11
129.5-2136.0	0.08	0.15	0.41	4	0.11
165.5-2170.5	0.31	0.05	0.23	5	0.15
170.5-2171.5	4.71	0.28	0.41	22	0.64
171.5-2174.0	1.96	0.02	0.34	4	0.11

9

DDH- 9

SAMPLE TYPE NX Core

NO. OF SAMPLES 1

REMARKS

STORAGE BOX NO.

SAMPLE CONCENTRATION 2000

SUBMITTAL NO. 74-30- 124

DATE SUBMITTED 7-29-74

SUBMITTED BY G. Parsons

PROJECT NO. 3293- 9

PAGE 1 OF 1 PAGES

Sample No.	PPM Cu	% Cu	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag	Oz.s Ag
2660- 2663.3		1.25	85		930		1	

9

SKYLINE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

File

Az. Kay Mine # 3293
Drilling - Hole K-9

CERTIFICATE OF ANALYSIS

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm
	PROJECT NO. 3293-9	
	Kay Mine (K-9)	
1	1960-1970	<0.02
2	1970-1974.6	0.14
3	1974.6-1980	<0.02
4	2080-2085	<0.02
5	2085-2090	<0.02
6	2090-2094.2	<0.02
7	2136-2140	0.07
8	2140-2145	0.04
9	2145-2150	0.34
10	2150-2155	0.45
11	2155-2150	0.22
12	2160-2165.5	<0.02
13	2174-2176.6	0.24
14	2176.6-2180	<0.02
15	2180-2185	<0.02
16	2185-2190	<0.02
17	2190-2195	<0.02
18	2195-2200	<0.02
19	2280-2290	<0.02
20	2390-2400	<0.02
21	2460-2470	<0.02
22	2540-2550	<0.02
23	2650-2653	0.04
24	2653-2660	<0.02
25	2663.3-2670	<0.02
26	2670-2680	<0.02
27	2695-2700	<0.02

TO:
EXXON COMPANY, USA
2425 North Huachuca Drive
Tucson, Arizona 85705

REMARKS:
Trace Analysis

CERTIFIED BY:

DATE REC'D:	DATE COMPL.:	JOB NUMBER:
11/19/76	11/23/76	762398

SP .INE LABS, INC.
Hawley & Hawley, Assayers and Chemists Division
1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
(602) 622-4836

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

CERTIFICATE OF ANALYSIS

KM-9

ITEM NO.	SAMPLE IDENTIFICATION	Au ppm
1	2094.2-2097	<0.02
2	2097-2102	0.14
3	2102-2107	0.08
4	2111-2117.6	0.04
5	2117.6-2119	0.22
6	2119-2125.4	0.08
7	2125.4-2129.5	0.10
8	2129.5-2136	0.21
9	2165.5-2170.5	0.07
10	2170.5-2171.5	0.29
11	2171.5-2174.0	0.03

TO:
Exxon Company, U.S.A.
1758 West Grant Road
Tucson, Arizona 85705

Attn.: Mr. R. E. Graves

REMARKS:
Trace analysis
Project No.: 3293-9

CERTIFIED BY:

DATE REC'D: 7/5/74
DATE COMPL.: 7/11/74
JOB NUMBER: 741255

9

PROJECT KAY MINE (K-9) Az

SAMPLE TYPE CORE PULP NO. OF SAMPLES 1

REMARKS

STORAGE BOX NO.

SUBMITTAL NO.

DATE SUBMITTED (7-29-76)

SUBMITTED BY R. ROWE

PROJECT NO. 3293 - 9

PAGE 1 OF 1 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag
2107-2111	970	118	425	9

Martin M. Helmke
12/15/76

DIAMOND DRILL ASSAY LOG

PROJECT Kay Mine
Project No. 3293

DATE STARTED 3/23/74
DATE COMPLETED 7/27/74

SHEET No. 1
HOLE No. K-9

COORDINATES 4,113,164N 425,758E COLLAR ELEVATION 2084' BEDROCK ELEVATION 2084'

FOOTAGE From	FOOTAGE To	Interval	Measd. CORE Recov.	% Recov.	HOLE SIZE	COPPER ppm	COPPER %	MOLY ppm	MOLY %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz./ton	GOLD ppm	GOLD oz./ton
1600	1610	10				66				11		53					
1610	1620					26				8		55					
1620	1630					40				12		61					
1630	1640					65				12		62					
1640	1650					45				9		55					
1650	1660					72				19		78					
1660	1670					47				10		72					
1670	1680					60				88		62					
1680	1690					94				710		34					
1690	1700					9				6		23					
1700	1710					54				6		33					
1710	1720					8				15		30					
1720	1730					65				74		73					
1730	1740					156				18		105					
1740	1750					133				20		92					
1750	1760					130				19		123					
1760	1770					132				28		138					
1770	1780					116				28		113					
1780	1790					101				33		107					
1790	1800					79				23		110					
1800	1810					94				20		107					
1810	1820					104				20		113					
1820	1830					73				14		99					
1830	1840					70				16		120					
1840	1850					100				20		118					
1850	1860					123				22		125					
1860	1870					54				24		118					
1870	1880					53				53		164					
1880	1890					45				36		82					
1890	1900					253				22		105					
1900	1910					51				38		111					
1910	1920					76				109		231					
1920	1930					36				12		72					
1930	1940					17				11		62					
1940	1950					99				23		89					
1950	1960					64				61		107					
1960	1970	↓				100				35		243		-1			
1970	1974.2	4.2					.31			60			1.67	3			
1974.2	1980	5.8				115				25		298		1			
1980	1990	10				43				20		88					
1990	2000					90				35		121					
2000	2010					82				31		116					
2010	2020					90				113		131					
2020	2030					80				50		140					
2030	2040					124				42		131					
2040	2050					46				40		120					
2050	2060					27				27		91					
2060	2070					443				133		300					
2070	2080	↓				83				64		150					
2080	2085	5.0				102				21		116		1			

DIAMOND DRILL ASSAY LOG

PROJECT Kay Mine
Project No. 3293

DATE STARTED 3/23/74
DATE COMPLETED 7/27/74

SHEET No. 2
HOLE No. KM-9

COORDINATES _____ _____

COLLAR ELEVATION 2084' BEDROCK ELEVATION 2084'

FOOTAGE From	FOOTAGE To	Interval	Measd. CORE Recov.	% Recov.	HOLE SIZE	COPPER ppm	COPPER %	MOLY ppm	MOLY %	LEAD ppm	LEAD %	ZINC ppm	ZINC %	SILVER ppm	SILVER oz./ton	GOLD ppm	GOLD oz./ton
2085	2090	5.0				62				18		120		1			
2090	2094.2	4.2				210				63		323		1			
2094.2	2097	2.8				100				-100		500		1		-.02	
2097	2102	5.0					1.58				.23		.20	16		.14	
2102	2107	5.0				400				100			.12	5		.08	
2107	2111	4.0				970				118		425		9			
2111	2117.6	6.6				-100				-100		700		2		.04	
2117.6	2119	1.4					.80				.14		.17	22		.22	
2119	2125.4	6.4				600				900			.21	6		.08	
2125.4	2129.5	4.1					.20			600			.13	4		.10	
2129.5	2136	6.5				800					.15		.41	4		.21	
2136	2140	4.0				284				350		458		3			
2140	2145	5.0				324				79		306		1			
2145	2150	5.0				810				465			.26	3			
2150	2155	5.0				302					.19		.27	28			
2155	2160	5.0				290				610			.17	8			
2160	2165.5	5.5					.19			290		896		2			
2165.5	2170.5	5.0					.13			500			.23	5		.07	
2170.5	2171.5	1.0					4.71				.28		.41	22		.29	
2171.5	2174	2.5					1.96			200			.34	4		.03	
2174	2176.6	2.6					.30			32			1.47	2			
2176.6	2180	3.4				190				18		386		1			
2180	2185	5.0				84				10		129		-1			
2185	2190	5.0				97				13		166		1			
2190	2195	5.0				90				10		127		-1			
2195	2200	5.0				92				14		123		1			
2200	2210	10				88				11		109					
2210	2220					112				12		100					
2220	2230					167				61		229					
2230	2240					51				349			0.16				
2240	2250					196				177			0.43				
2250	2260						0.11			74			0.28				
2260	2270					163				19			0.12				
2270	2280					167				17			0.25				
2280	2290					747				37			0.16	1			
2290	2300					154				21			0.17				
2300	2310					36				28			0.13				
2310	2320					36				43			0.15				
2320	2330					27				87			0.13				
2330	2340					154				325			0.20				
2340	2350					163				244			0.17				
2350	2360					119				120		385					
2360	2370					55				173		795					
2370	2380					61				69		290					
2380	2390					220				41		480					
2390	2400					113				18		149		1			
2400	2410					186				57		567					
2410	2420					45				34		133					
2420	2430					<5				24		114					
2430	2440	↓				21				13		63					

DIAMOND DRILL ASSAY LOG

PROJECT Kay Mine
Project No. 3293

DATE STARTED 3/23/74
DATE COMPLETED 7/27/74

SHEET No. 3
HOLE No. KM-9

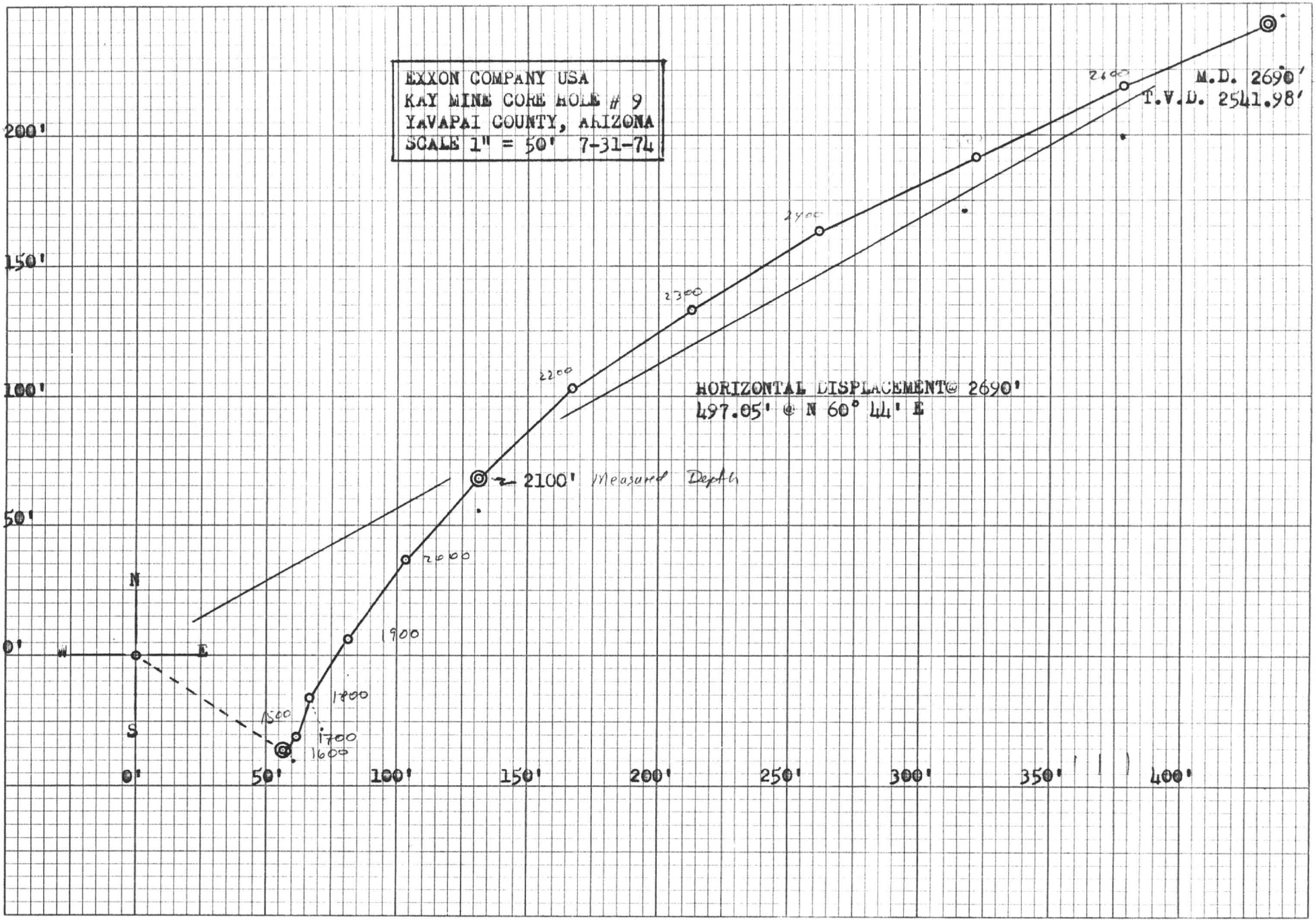
COORDINATES _____ _____

COLLAR ELEVATION 2084' BEDROCK ELEVATION 2084'

FOOTAGE		Interval	Measd. CORE Recov.	% Recov.	HOLE SIZE	COPPER		MOLY		LEAD		ZINC		SILVER		GOLD	
From	To					ppm	%	ppm	%	ppm	%	ppm	%	ppm	oz./ton	ppm	oz./ton
2440	2450	10				30				23		136					
2450	2460					135				21		94					
2460	2470					175				48			0.36				
2470	2480					7				21		111					
2480	2490					165				15		81					
2490	2500					9				13		56					
2500	2510					9				20		93					
2510	2520						0.16			25		87					
2520	2530					155				22		69					
2530	2540					<5				17		48					
2540	2550					10				10		40					
2550	2560					233				24		163					
2560	2570					15				10		74					
2570	2580					<5				8		41					
2580	2590					<5				9		43					
2590	2600					<5				7		41					
2600	2610					<5				22		76					
2610	2620					<5				18		75					
2620	2630					17				10		42					
2630	2640					9				17		78					
2640	2650					289				41		780					
2650	2653	3.0					0.13			25			.20	2			
2653	2660	7.0					.16			125			.12	1			
2660	2663.3	3.3					1.25			85		930		1			
2663.3	2670	6.7				43				14		146		1			
2670	2680	10				26				15		119		-1			
2695	2700	5.0				30				14		27		-1			
	T.D.																

K+E 10 X 10 TO THE INCH • 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

46 0780



MOLLEN-HAUER SURVEYING COMPANY

COMPANY Elfon Company USA JOB NO. 61030 PAGE 1 OF 1

PROSPECT NO. KM #9 LOCATION Black Canyon City DATE 7-31-74

2094

STATION NO.	MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	VERTICAL DEPTH	TRUE VERTICAL DEPTH	SECTION	COURSE DEVIATION	DRIFT DIRECTION	COORDINATE DIFFERENCES NORTH	SOUTH	EAST	WEST	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST
	1500				1491 22									36 61	56 99	
	1600	100	1 1/4	99 98	1591 20			S 23 E		2 01	85			38 62	57 84	
	1700	48	4 1/4	99 73 (4 80)	1690 93 (1596)		.36	N 22 E	6 87		2 78 (2 73)			31 75 (38 29)	60 62	
	1800		9 1/4	98 70	1789 63			N 22 E	14 90		6 02			16 85	66 64	
	1900		16	96 13	1885 76			N 30 E	23 87		13 78		7 02		80 42	
	2000		21 3/4	92 88	1978 64			N 38 E	29 20		22 81		36 22		103 23	
	2100		25 3/4	90 07	2068 71			N 42 E	32 29		29 07		68 51		132 30	
	2200		28 3/4	87 97	2156 68			N 45 E	34 01		34 01		102 52		166 31	
	2300		34	82 90	2239 58			N 56 E	31 27		46 36		133 79		212 67	
	2400		37 3/4	79 07	2318 65			N 61 E	29 68		53 55		163 47		266 22	
	2500		38 3/4	77 99	2396 64			N 63 E	28 42		55 77		191 89		321 99	
	2600	100	39 1/2	77 16	2473 80			N 65 E	26 88		57 65		218 77		379 64	
	2690	90	40 3/4	68 18	2541 98			N 66 E	23 90		53 68		242 67		433 32	
EST TD	2700	10	41	7 55	2549 53		6 56	N 67 E	2 56				245 23		439 36	

HORIZONTAL DISPLACEMENT @ 2690 FT = 497.05 FT @ N 60° 44' E

EST " " " 2700 TD) = 503' N 61° E

GYRO SURVEY FIELD DATA SHEET

COMPANY Exxon JOB NO.

ADDRESS DATE

FIELD LEASE WELL NO. Kin #9

COUNTY STATE CASING OPEN HOLE DEPTH

REFERENCE BEARING S 3½ W OBJECT STAKE HOW OBTAINED Brunton

GYRO AZ. START N 55 W TIME 00-45 GYRO AZ. END S 40 E TIME 03-00 DRIFT

REMARKS: LF 07-30 LF 03-50

IN RUN	MEASURED DEPTH	OUT RUN	IN RUN	MEASURED DEPTH	OUT RUN	IN RUN	MEASURED DEPTH	OUT RUN
05-30		14-15	21			06-30		08-30
09-00	0	10-15				10-00	0 X	12-00
14-50						11-30		
15-35	13					12-15	1	
18-35		04-00				12-50		
20-35	11	15-00	60			13-35	2	
21-30						14-10		
22-15	15				15	15-00	3	
23-15						01-15		08-30
24-00	14					02-00	4 X	07-45
24-45						03-15		
25-30	17					04-00	5	
26-30						04-50		
27-15	11					05-30	6	
28-05		12-00	21	5		10-15		
28-50	4 X	11-15				11-00	7 X	
29-35						11-30		
30 30-20						12-45	8	
01-10					30	13-50		
05-40	21					02-35	9	
06-40						03-30		
07-25	22					04-15	10	
09-25								
09-90	23 X		36	5				
10-45		08-45						
11-30	24	08-00	28	5				
12-15								
45 13-00	25							
14-20								
04-00	26							
05-10			41	5				
06-00	26 90							
	8							

KAY MINE RDH -10

SAMPLE TYPE Rotary Drill Cuttings NO. OF SAMPLES 44

REMARKS Any Cu Values over 500 ppm to be assayed for other metals in Kay Mine Suite STORAGE BOX NO.

SAMPLE CONCENTRATION 2/100

SUBMITTAL NO. 74-30-4

DATE SUBMITTED 5/13/74

SUBMITTED BY G. Parsons

PROJECT NO. 3293

PAGE 1 OF 1 PAGES

Sample No.			ppm Cu	% Cu
0-10			140	
10-20			145	
20-30			145	
30-40			145	
40-50			150	
50-60			160	
60-70			135	
70-80			135	
80-90			155	
90-100			175	
100-110			155	
110-120			160	
120-130			160	
130-140			160	
140-150			175	
150-160			175	
160-170			145	
170-180			155	
180-190			165	
190-200			165	
200-210			170	
210-220			170	
220-230			175	
230-240			170	
240-250			97	
250-260			93	
260-270			100	
270-280			160	
280-290			165	
290-300			170	
300-310			185	
310-320			160	
320-330			135	
330-340			155	
340-350			145	
350-360			165	
360-370			155	
370-380			155	
380-390			160	
390-400			160	
400-410			175	
410-420			170	
420-430			180	
430-440			160	

10

SAMPLE TYPE: Rotary Drill Cuttings

NO. OF SAMPLES: 21

REMARKS:

STORAGE BOX NO.

SAMPLE CONCENTRATION

SUB. REQUEST NO.: 74-30-6

DATE SUBMITTED: 5/20/74

SUBMITTED BY: G. Parsons

PROJECT NO.: 3293

PAGE 1 OF 1 PAGE(S)

Sample No.	ppm Cu	% Cu
440-450	165	
450-460	165	
460-470	175	
470-480	160	
480-490	175	
490-500	150	
500-510	125	
510-520	125	
520-530	160	
530-540	165	
540-550	185	
550-560	175	
560-570	175	
570-580	160	
580-590	180	
590-600	170	
600-610	180	
610-620	175	
620-630	190	
630-640	180	
640-650	175	

10

[illegible] RAL FIRE RDH - 10 10

SAMPLE TYPE Rotary Drill Cuttin NO. OF SAMPLES 11

REMARKS

STORAGE BOX NO.

SUBMITTAL NO. [illegible]

DATE SUBMITTED [illegible]

SUBMITTED BY [illegible]

PROJECT NO. 3293

PAGE 1 OF [illegible] PAGES

SAMPLE CONCENTRATION

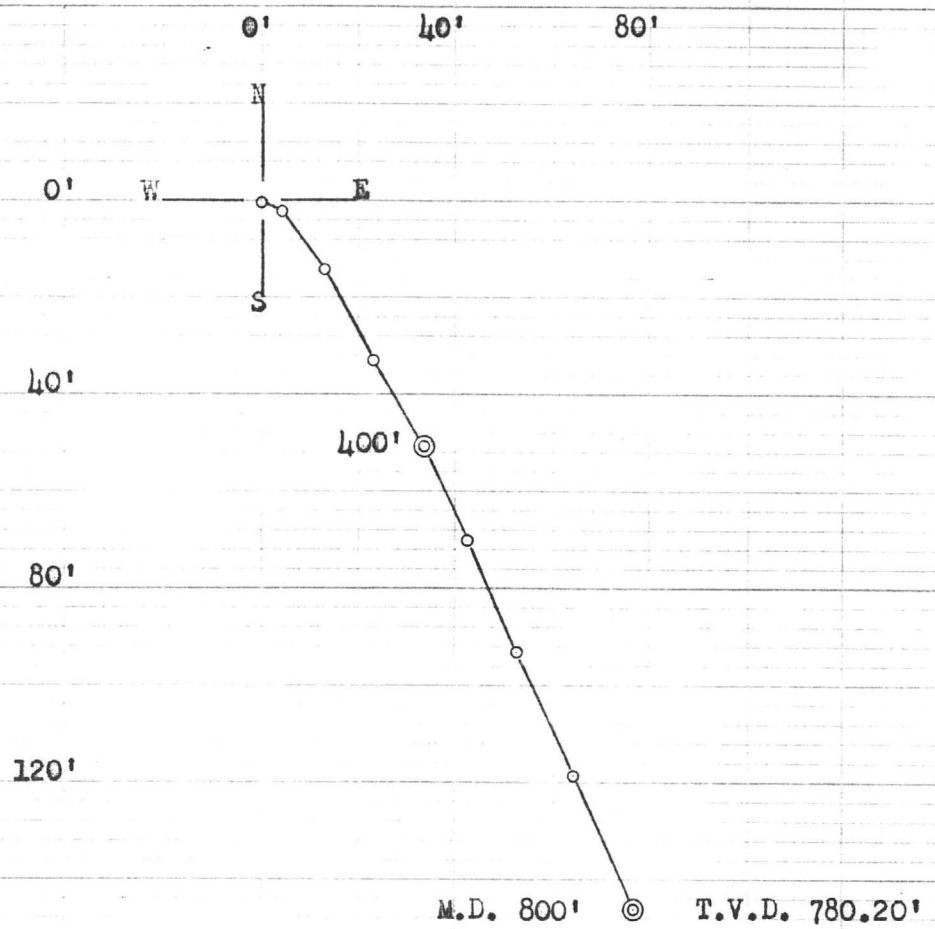
Sample No.			ppm Cu	% Cu
670-680			130	
680-690			145	
690-700			150	
700-710			150	
710-720			155	
720-730			135	
730-740			140	
740-750			140	
750-760			120	
760-770			110	
770-780			120	

10

10 15 20 25 30 35 40 45 50 55

Rainey - TD 838

EXXON COMPANY USA
KAY MINE CORE HOLE NO. KM 10
YAVAPAI COUNTY, ARIZONA
SCALE 1"= 40' 5-30-74



HORIZONTAL DISPLACEMENT AT 800 FT. = 164.09 FT. @ S 27° 57 ' E

The Parsons Surveying Company Arizona

COMPANY Exxon Company USA JOB NO. 62178 PAGE 1 OF 1

PROSPECT NO. KM 10 LOCATION Black Canyon City DATE 5-30-74

STATION NO.	MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE		VERTICAL DEPTH		TRUE VERTICAL DEPTH		SECTION	COURSE DEVIATION		DRIFT DIRECTION			COORDINATE DIFFERENCES NORTH		SOUTH		EAST		WEST		RECTANGULAR COORDINATES NORTH		SOUTH		EAST		WEST	
	100	100	2	3/4	99	88	99	88		4	80	S	58	E			2	54	4	07					2	54	4	07		
	200		8	1/2	98	90	198	78	1458	14	78	S	34	E			12	25	8	27					14	79	12	34		
	300		12		97	81	296	59	40.37	[illegible]	[illegible]	S	33	E			17	44	11	32					32	23	23	66		
	400		12		97	81	394	40	61.16	[illegible]	[illegible]	S	29	E			18	18	10	08					50	41	33	74		
	500		12	3/4	97	53	491	93	[illegible]	[illegible]	[illegible]	S	24	E			20	16	8	98					70	57	42	72		
1.75	600		14		97	03	588	96	102.46	[illegible]	[illegible]	S	23	E			22	27	9	45					92	84	52	17		
2.25	700		16	1/4	96	00	684	96	[illegible]	[illegible]	[illegible]	S	25	E			25	36	11	83					118	20	64	00		
[illegible]	800	100	17	3/4	95	24	780	20	[illegible]	[illegible]	[illegible]	S	25	E			27	63	12	88					145	83	76	88		
	830	30	18	35	36	07	816	[illegible]		11	96	S	22	E			10	84	5	00					156	67	81	93		

Horizontal Displacement @ 800 ft = 164.09 ft @ S 27° 57 E

EST " " " HC 838' 176 S 27.6' E

THE PARSONS SURVEYING CO., ARIZONA

GYRO SURVEY FIELD DATA SHEET

COMPANY Exxon Co. USA JOB NO. 62178

ADDRESS DATE 5-30-74

FIELD LEASE KAY MINE WELL NO. KM10

COUNTY YAVAPAI STATE CASING OPEN HOLE DEPTH

REFERENCE BEARING S85½E OBJECT FLAG HOW OBTAINED BRUNTON

GYRO AZ. START N½W / N1W TIME 01-20 / 04-00 GYRO AZ. END N1W / S6EE TIME 51-00 / 47-00 DRIFT

REMARKS: LG 51-05 LF 44-00

IN RUN	MEASURED DEPTH	OUT RUN	IN RUN	MEASURED DEPTH	OUT RUN	IN RUN	MEASURED DEPTH	OUT RUN
04-15	0	48-00	07-10	0	45-10			
07-45		40-30	10-40		41-40			
08-45	50		12-00	100				
09-30			12-45					
09-55	100		13-30	2				
10-40			14-15					
11-05	50		15-10	3	38-25			
11-50			15-50		37-40			
12-15	200		16-45	0				
13-00			17-30					
13-30	50	40-35	18-20	5	36-30			
14-15		39-50	22-30		35-45			
14-50	300		24-20	6				
15-35			25-00					
15-55	50		26-15	7	34-30			
16-40			27-00		33-50			
17-05	400		28-10	8				
21-05			32-40					
21-40	50							
22-35								
22-50	500	38-25						
23-35		37-40						
24-00	50							
24-45								
25-15	600							
26-00								
26-25	50							
27-10								
27-40	700	37-25						
28-25		36-50						
28-55	50							
29-40								
30-20	800							
31-05								
31-40	18							
35-40								

PROJECT Kay Mine (DDH-10-A) (Hwy.) SUBMITTAL NO. 76-40-1

SAMPLE TYPE Drill Core NO. OF SAMPLES 54 DATE SUBMITTED 7-9-76

SUBMITTED BY R.G. Rowe

REMARKS All will follow. PROJECT NO. 3293-10-A

STORAGE BOX NO. PAGE 1 OF 2 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu	% Cu	PPM Mo	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
2700-2710	36		<1	26		80		<1
2710-2720	70		<1	770			0.11	1
2720-2724	305		2	95		1020		1
2724-2730	248		2	55		220		<1
2730-2735.6	400		<1	18		123		<1
2735.6-2737.4		1.05	2	75			0.11	5
2737.4-2740.2	442		<1	17			0.94	<1
2741-2745	812		<1	22			0.40	<1
2745-2750	128		<1	18		173		<1
2750-2755		0.12	<1	55		355		1
2755-2760		0.24	6	285			1.11	2
2760-2765	308		2	70			0.20	1
2765-2770	112		2	67			0.37	1
2770-2780	142		2	148			0.59	1
2780-2790	232		6	138			0.71	2
2790-2800	66		6	802			0.26	2
2800-2810	58		2	316		744		1
2810-2820	84		6	14		105		<1
2820-2830	16		<1	17		63		<1
2830-2840	56		2	12		69		<1
2840-2850	20		<1	12		47		<1
2850-2860	38		2	16		130		<1
2860-2870	40		11	250		705		1
2870-2875	96		6	680			0.32	2
2901.7-2905	190		11	1015			0.38	2
2905-2910	448		6	620		785		3
2910-2916.4	930		9	82		539		5
2917.8-2921	574		6	54			0.87	2
2921-2925		0.12	11	70		895		3
2925-2930	88		14	152			0.15	1
2930-2935	42		9	29		130		<1
2935-2942	28		6	125		320		1
2942-2948.5	538		9	225			1.00	2
2948.5-2952		3.60	9	190		722		10
2952-2955		0.13	9	68			0.40	1
2955-2960	172		2	25		239		1
2960-2965	74		2	40		260		<1
2965-2969.5	234		2	64		463		1
2969.5-2974.5		0.36	9	220			0.31	3
2974.5-2982.5		0.72	6	300			0.22	6
2982.5-2985	460		6	42		290		1
2985-2990	336		6	160		810		1
2990-2995	90		2	115			0.11	1
2995-3000	156		2	239			0.13	2
3000-3010	138		2	216		690		2
3010-3020	116		<1		0.11		0.14	4
3020-3030	32		2	160		300		1
3030-3040	40		2	220		400		2
3040-3050	42		2	260		891		3
3050-3060	104		2		0.13		0.44	11

Martin H. [illegible]
7-15-76

PROJECT Ray Mine (DDH-10-A) (Ariz.)

SUBMITTAL NO. 76-40-1

SAMPLE TYPE Drill Core

NO. OF SAMPLES 54

DATE SUBMITTED 7-9-76

SUBMITTED BY R. G. Rowe

REMARKS

PROJECT NO. 3293-10-A

STORAGE BOX NO.

PAGE 2 OF 2 PAGES

SAMPLE CONCENTRATION

Sample No.	PPM Cu	% Cu	PPM Mo	PPM Pb	% Pb	PPM Zn	% Zn	PPM Ag
3060-3070	78		2	648			0.37	5
3070-3080	21		2	20		90		<1
3080-3090	21		2	10		85		<1
3090-3100	54		2	25		200		1

7-15-76

SAMPLE SUBMITTAL SHEET

PROJECT NAME: KAY MINE (ARIZ) PROJECT NO: 3293

SUBMITTED BY: O Rowe DATE: 6-8-76 SHIPPED VIA:

SAMPLE TYPE: Drill Core K-10A NO. OF SAMPLES: 56 PRIORITY: 5

ANALYSIS REQUESTED: (✓Ag)(✓Au)(✓Cu)(✓Mo)(✓Pb)(✓Zn) Other: Assay or Trace
(Indicate by check mark) (Circle One)

The sample numbers are:

2700' thru 3100' in 10' INTERVALS EXCEPT AS INDICATED BELOW:

thru

thru

thru

thru

thru

* 2720 - 2724.0
* 2725.7 - 2730
* 2730 - 2735.6
* 2735.6 - 2737.4
* 2737.4 - 2740.2
* 2741 - 2745
* 2745 - 2750
* 2750 - 2755
* 2755 - 2760
* 2760 - 2765
* 2765 - 2770

Mail Copy
Of Report To:

Remarks or
Special Instructions: SPLIT + ASSAY AS INDICATED

2901.7 - 2905
2905 - 2910
2910 - 2916.4
* 2917.8 - 2921
* 2921 - 2925
2925 - 2930
2930 - 2935
2935 - 2942
* 2942 - 2948.5
* 2948.5 - 2952
* 2952 - 2955
2955 - 2960
2960 - 2965
2965 - 2969.5
* 2969.5 - 2974.5
* 2974.5 - 2982.5
2982.5 - 2985
2985 - 2990
2990 - 2995
* 2995 - 3000

PULP & REJECT DISPOSITION

PULP
( ) Discard
(✓) Store
( ) Return Collect To:

REJECTS
Rejects will be discarded unless otherwise noted !

Rowe

RUN AU ON Above with star AND EVERY 4th sample of the 10' intervals

NOTE:
Copy of submittal sheet must accompany samples !

Roger Rowe
(Signature)

PROJECT KAY MINE #3293 HOLE No. K-10A

Co-ord. 1,113,287 N 425,325 E.

Collar elev. 2086 By G. Rowe Scale 1"=20' Date 6-1-76 P. 1

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure (degrees)	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
0							NO CORE - SET CASING SPUD 8/6/74					
100	–	g- bedding		grn grey	90° 50°		PQ core (3¼" dia.) Chlorite schist (intermediate-mafic tuff) fn-med gr. thin banded: 1/16-¼" siliceous bands alternating w/ chloritic bands. Weak carbonate in matrix					
100	–	g- wl		dk gr grn	–		Chlorite schist (meta andesite) med gr. Massive, locally wk banding commonly ϕ blebs + lens					
100	–	g- bedding v wl	[mt- bedding]	dk gr	70-90°		Chlorite schist (intermediate-mafic tuff) fn-med gr. thin banded. ϕ bands + ejecta in ϕ matrix. Sparce flattened lapilli up to 1 cm. Small 1" drag folds common. Sparce, sporatic qtz veining wk-mod carbonate in matrix					
100	–	c mt- g- wl [5% pyrite]		white	90° 55°		Quartz (ϕ exhalite) contains several chlorite tuff beds 1"-12" proving sedimentary origin. Stratically well fol'd with calcite ± mt-g wl. Locally concentrations of highly contorted pyritic, carbonaceous(?) chemical sediment w/ up to 5% pyrite					
							bedding contacts of qtz @ 55-60°					
100	–	[g- wl bedding] [mt bedding]		varies med-dk grn + grn grey	varies 70-90°		Chlorite schist (intermed-mafic tuff, to Xtal tuff) fine-med gr. strong-thinly banded. alternating chlorite layers w/ ϕ bands + wisps. Bedding 70-90°. commonly moderately contorted locally with knuby folds. Locally v. abun. 1mm fsp in chloritic matrix. Commonly weak to moderate carbonate in matrix.					
				wht.			ϕ exhalite w/ minor interbedded tuff + pyrite					

PROJECT KAY MINE # 3293 HOLE No. K-10A

Co-ord. 1,113,287 N 425,325 E

Collar elev. 2086 By [illegible] Scale 6-76 Date 6-76 P. 2

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type	Interval	Analyses Element Cu	Mo	Pb	Zn
98%	–	–		med grn grey to pale grn grey	65° 90° VARIES 70-90°						
98%	–	–		pale grn grey	90° 55° 70°						

Chlorite schist (inter-mafic tuffs) (meta andesites)
fine grained, laminated: 1/32-1/8" bands of chlorite + ϕ rich horizons. Some 1/4-1/2" ϕ bands, lens, + pods. bedding smooth to slightly wavy. Locally sharp kinky 1" folds. Small amount carbonate in all units. Varies from 5-40% ϕ bands

Locally somewhat waxy. Sericite? tale?
vfg. stg fol, poorly lam

Locally bedding becomes highly contorted

grain size increasing slightly with depth. Beg. fr-med gr.

PROJECT KAY MINE # 3293 HOLE No. K-10A

Co-ord. 1,113,287 N. 425,325 E

Collar elev. 2086 By [illegible] Scale 1" = 20' Date 6-76 P. 3

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
400											
					60°-80°						
420		—									
	—			med grn							
440	100°				55°						
460											
		—			60°-70°						
480											
	—				65°						
500											
					70°						
520											
540											
560					60°						
					63°						
580											
					55°-60°						
600											

NO CONTACT. GRADATIONAL WITH ABOVE PHASE

Chlorite schist (intermediate-mafic tuff and Xtal tuff)

fine-med gr. wk-mod laminated locally banded. foliation smooth to moderately contorted. Local erratic kink folding

dominantly a fn gr chlorite tuff with 5-20% siliceous bands, lens or laminae. Locally 1-2 mm subhedral fsp Xtals make up to 40% of the rock. These Xtal tuffs are commonly only weakly foliated (bedded).

MINOR small scale kink folding (1" amp) decreasing in intensity w/ depth

PROJECT KAY MINE # 3293
Co-ord. 1,113,287 N. 425,325 E
Collar elev. 2086 By [illegible] Scale 1"=20' Date 6/76 P. 4

HOLE No. K-10A

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure foliation	Rock Type		INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
100					50°-60° 58°-70°		Above unit beg. inc. more ϕ with depth. ϕ bands, lens, pods inc. in abundance. Tuff bands remaining fine to fine-med gr. Zones w/ fsp phenocrysts very rare. Bedding (ie: foliation) smooth to slightly undulating Both ϕ + tuff bands contain a fair amount of $CaCO_3$						
100	Cpy-	Py-po ~5%		med grey/black			Siliceous Pyrite Graphite Schist bedded - non foliate Very ϕ. ϕ bands + zones w/ black shaley (Graphitic?) c. interbeds Pyrite-Po-Cpy present w/ black shale as bands, wisps, pods [A] [highly contorted]						
100	-	-		med pale grn grey	50°-60° 50°-70°		Chlorite schist (inter-mafic tuff) fine to med gr mod laminated w/ banded ϕ bands 5-10% of total rock. Fair amount. carbonate in tuff. Relatively consistant grain size. Generally the tuff more ϕ than the ϕ schists in the 400'-600' range						
100		[C-hlt Tc xl]		med grey grn med grey dk grey	70°		Meta andesite Andesite, porphyritic andesite, mgr. diorite? Gabbro? Schistosity very poorly developed. Massive, uniform texture, beg. coarser grained with depth. ϕ, $CaCO_3$ band ~1" thick @ 70° to Axis ~ one $CaCO_3$ xl/2 feet $\frac{1}{64}$-$\frac{1}{8}$" @ 45°-85° to axis						

600 620 640 660 680 700 720 740 760 780 800

PROJECT KAY MINE # 3293 HOLE No. K-10A

Co-ord. 1,113,287 N 425,325 E

Collar elev. 2086 By B. Rowe Scale 1"=20' Date 6/76 P. 5

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure (Foliation)	Rock Type	Depth	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
							800						
		[30-50 cut]	-	med grey w/ grn tinge	-		820	Meta Gabbro med. gr. massive-non foliate, uniform texture 40% chloritized hbl 60% plag.					
100	-												
		[Irreg hairline cut]	-				840						
							860						
	-						880	$3\frac{1}{4}$" dia (PQ) ← CORE SIZE REDUCTION $2\frac{1}{2}$" dia (HQ)					
							900	Meta andesite sequence of thin flows variety of textures andesitic porphyritic andesitic f.gr. phemeritic mafic rx (diorites + gabbro) porphyritic phemeritic mafic rx					
	-			VARIG med-dk grey + med-dk grey grn			920						
100		cut 10-30°			45° ?		940	Chilled flow tops irregular flow contacts non foliate locally weakly foliate sparce, sporatic qtz lens + pods up to 2" thick relative uniform textures within any particular flow.					
	-						960						
							980	-4" Carb. vn. @ 20°					
							1000						

PROJECT KAY MINE # 3293 HOLE No. K-10A

Co-ord. 4,113,287 N 425,325 E

Collar elev. 2086' By [illegible] Scale 1"=20' Date 6/26 P.6

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure to Core Axis	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
1000												
1020 100	–	[py]		med grey + grey grn	60°-80°		carbonate zns, pods, streaks, patches locally abundant. Locally weakly foliate. Possibly some units begining to contain pyroclastic debris.					
1040							} agglomeratic zn.					
1060												
1080												
1100												
1120							Chlorite Schist (tuffaceous andesite/tuffs) gradationally beg. more foliate with depth. Beg. to look more a more like tuffaceous Andesite and tuff.					
1140				pale to med grey grn			↓					
1160 100		[py]			55°		Locally chlorite tuffaceous rocks with at least some sericite. Sparse sporatic <1/4" py rich laminae					
1180												
1200												

PROJECT KAY MINE #3293 HOLE No. K-10A

Co-ord. 1,113,287N 425,325E

Collar elev. 2086' By [illegible] Scale 1"=20' Date 6/26 P. 7

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure (Foliation)	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
200											
220											
240	100	[py]		med gray grn							
260											
280											
300					70°						
320											
340	100			pale to med grn	60-65°						
360											
380					50°						
400											

mixed tuffs, andesitic tuffs, tuffaceous metasedi's ?

↓ beg more tuffaceous w/ depth

Chlorite calcite schist

metasediments rich in carbonate laminae

fine gr. Locally v. f. gr. or med gr.

laminated. Chlorite + chlorite-carbonate laminae interbedded w/ limy + $CaCO_3$ bands up to ¼" thick

Strongly bedded. Smooth bedding surfaces, locally mildly undulatory

Locally primary $CaCO_3$ bands up to 1" thick

PROJECT KAY MINE # 3293 HOLE No. K-10A

Co-ord. 1,113,287 N 425,325 E

Collar elev. 2086 By B Rowe Scale 1" = 20' Date 6/76 P. 8

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
1400											
							WEDGE @ 1414'				
							no core				
1420											
				pale to med grn	52°						
1440											
100	-	-									
1460											
					45°		Chlorite calcite schist				
							as described on prev. page				
1480											
1500											
					45°						
1520											
							WEDGE @ 1525'				
0							no core				
1540 100											
							WEDGE @ 1544'				
0							no core				
1560 100											
1580											
							NO "WEDGE" block in box, but that is probably the reason for no core from this interval.				
0							No Core.				
1600 100											

PROJECT KAY MINE #3293
Co-ord. 1,137,287 N 425,325 E
Collar elev. 2086' By [illegible] Scale 1"=20' Date 6/76 P.9

HOLE No. K-10A

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure (Inclination)	Rock Type	Description	Interval	Analyses Element Cu	Mo	Pb	Zn
1600												
100				med grn								
							WEDGE @ 1612.6					
0							NO CORE					
1620												
					52°		Meta andesite					
	–	–		dk gray			2½" dia (HQ)					
							Core Size Reduction					
100	–	–		med grn			1⅞" dia (NQ)					
1640												
		–		dk gray								
							WEDGE @ 1647 NO CORE					
0							Meta andesite - porphyritic					
				med grn								
1660												
100							Chlorite - calcite schist					
					50-55°							
1680												
1700					52°							
1720												
							WEDGE @ 1724 NO CORE					
0												
100												
1740												
							WEDGE @ 1744.5 NO CORE					
0							Chlorite Schist					
				med gray grn	40°		metasediments? tuffaceous?					
100												
1760							WEDGE @ 1763.5					
0				–			NO CORE					
							Description on next page					
				med gray grn								
100					45°							
1780							WEDGE @ 1784					
0				–			NO CORE					
				med gray grn	48°							
100												
1800												

PROJECT KAY MINE
Co-ord. 1,113,287 N 425325 E
Collar elev. 2086' By R. Rows Scale 1"=20' Date 6/75 P. 10

HOLE No. K-10A

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure (Colour)	Rock Type	Notes
1800	100							WEDGE @ 1804
	0							} NO CORE
1820	100	none ⇓	none ⇓	10-30° [cm] ⇓	med grn ↓	45°		wedge @1824
	0							} NO CORE
1840	100					53° 60°		wedge @ 1844
	0							} NO CORE
1860	100					62° 50° 65°		WEDGE @ 1864
	0							} NO CORE
1880	100					62° 55° 50°		WEDGE @ 1884
	0							} NO CORE
1900	100					60° 55°		WEDGE @ 1904
	0							} NO CORE
1920	100					55° 60°		WEDGE @ 1924
	0							} NO CORE
1940	100					60° 65°		WEDGE @ 1944
								} NO CORE
1960		none ⇑	none ⇑	⇑ 10-30° [cm]	med grn ↑	63°		
1980						60° 70°		
2000								

INTERVAL

ANALYSES

ELEMENT	Cu	Mo	Pb	Zn	

Chlorite schist
(metasediments tuffaceous?)

- fine to med gr
- variable texture
- weakly to strongly bedded (= foliated)
- consistant med grn color
- contain a fair amount of calcite + locally would fit the Chlorite-Calcite schist description. calcite occurs primarily as laminae bands, wisps, blotches, streaks dominantly concordant or subconcordant but locally discordant. Averages 5-10% of the rock but locally may run as high as 20%
- bedding intensity extremely variable over short distances. Certainly a function of rock type but not necessarily a function of grain size.
- the texture is generally one poorly developed laminations to slightly wispy laminations

PROJECT KAY MINE #3293 HOLE No. K-10A

Co-ord. 1,113,287 N 425,325 E

Collar elev. 2086' By Q Rowe Scale 1"=20' Date 6/75 P. 11

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure foliation	Rock Type	Description	Interval	Cu	Mo	Pb	Zn
2000						68°		VERY GRADATIONAL OVER 20' interval with ABOVE UNIT.					
					med grey grn			Chlorite calcite schist					
2020						70°		- fine grained - well laminated. alternating 1/32"-1/8" bands of tuff? (muddy seds?) and limy seds &/or calcite - laminae flat to slightly undulating - very uniform texture					
	100	–	–										
	0							NO core wedge??					
2040					med grey grn	65°							
	100	–	–										
2060						60°		sharp contact					
					pale grn	60°		Sericite Chlorite schist (2063-2150) (felsic tuff) laminated 1/32"-1/8" bands of v. pale grn to pale grn locally ghosty med. gr. texture. Minor ϕ but inc. with depth. disintegrates readily v. sty folliate					
2080						67°							
2100					med grey	65°		Quartz sericite schist (Rhyolite Pyroclastic) - med to cse grained - locally sparce subrounded to lenzoidal lapalli clasts - the felsic m.gr. pyroclastics are ribboned with wisps + stringers of chloritic f.gr. tuff 1/64-1/16" thick (flow structure). Give distinct impression of fine ash dust settling down as the m.gr. pyroclastics were accumulating. - mod-sty bedded (= foliation)					
	100	–	–	–									
					[lt grey]	62°							
2120								qtz lon (?)					
						68°							
2140													
2160					med grey	45°		Below, in 2150 becoming weakly foliate but still retains the wispy tuffaceous character. Very siliceous clasts? fragments? Med gr. locally cse or fine. Very little chlorite (Thoser bedded)					
2180						55°							
						50°							
2200													

PROJECT KAY MINE #3293
Co-ord. 1,113,287 N 425,325 E
Collar elev. 2086' By [illegible] Scale 1"=20' Date 6/25 P. 12

HOLE No. K-10A

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Fracture	Rock Type	Description	Interval	Cu	Mo	Pb	Zn
2200	100	–	[py]		med grey			v.f.gr. wispy lenticular changing from sericitic/chloritic to muddy looking; ↓ beg finer gr w/depth					
2220	100		5% py	–	tan grey to med grey	60° 55°		Siliceous, graphitic, pyritic schist. A siliceous m.gr. clastic(?) rock with 20-40% muddy & graphitic wispy & irregular laminae. Moderately well foliated (= bedding) with about 5% concordant blebby pyrite					
2247													

HOLE STOPPED 2247 BACKED UP TO 2004' + WEDGE OFF

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Fracture	Rock Type	Description	Interval	Cu	Mo	Pb	Zn
2009	100	–	–	–	med grn grey	65°		Chlorite-calcite schist metaseds rich in carbonate laminae					
2017													

HOLE STOPPED @ 2017' BACKED UP TO 1970 + WEDGE OFF

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Fracture	Rock Type	Description	Interval	Cu	Mo	Pb	Zn
1970						57°		Chlorite schist (metaseds)					
1980	100	–	–	–	med grn grey	65°		fine to med. gr. mod to well foliated. Locally up to 10% calcite bands. poorly to weakly laminated					
1990						60°		wedge @ 1993					
	0							} no core					
2000	100	–	–	–	med grn grey	65° 63° 60°		Chlorite-calcite schist fine grained v. well laminated uniform texture					
2017													

HOLE STOPPED @ 2017 BACKED UP TO 1982' + WEDGE OFF

Depth	Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Fracture	Rock Type	Description	Interval	Cu	Mo	Pb	Zn
1980 1982	100	–	–	–	med grey grn	55°		Chlorite schist meta seds					
								gradational contact over ~5-10'					
2000					med grey grn	70°		Chlorite-calcite schist (description next page)					

PROJECT KAY MINE #3293 HOLE No. K-10A

Co-ord. 4,113,287 N 425,325 E

Collar elev. 2086' By S. Rowe Scale 1" = 20' Date 6/76 P. 13

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure foliation	Rock Type	Interval	Cu	Mo	Pb	Zn
2000											
0											
2020 100				med grn grey	65° 70°						
2040 80	–	–	–		72°						
0					70-80°						
90											
20											
2060 80					70°						
40											
2080 75	–	–	–	pale grn	70-80° 75°						
2100 100				pale grn grey	70° 70°						
2120 100					65°						
2140 20	–	–	[clay 90° lt]	lt grey	70°						
100											
2160											
2180				lt grey	70°						
2200 95											

wedge @ 2002'

} no core

Chlorite calcite schist

fine grained

well laminated alternating 1/32 - 1/8" bands of tuff(?) and calcite or lining + oH(?)

v. stg foliated

Laminae surface flat to slightly undulating

v. uniform texture

gradational over ~10'

Sericite chlorite schist

(felsic tuff)

Laminated 1/32 - 1/8" bands v. pale grn - pale grn

beg. more φ + ¢ below 2100'

Locally has ghosty m.gr. texture

minor silica but inc. w/ depth

disintegrates easily. v. stg foliation

Quartz sericite schist

(felsic m.gr. tuffs, + xtal tuffs)

Dominantly a m-csgr. rock. 20-90% subrounded φ fragments 2-5 mm. Tuffaceous wispy laminae intimately intertwined with the fragments (phaser). Relative uniform texture except within 20-30' of upper & lower contact beg. finer gr. + definately more tuffaceous in character, with perhaps a little chlorite.

(Phaser bedded)

below 200' distinctly finer grained

PROJECT KAY MINE # 3293
Co-ord. 1,113,287 N. 425,325 E. HOLE No. K-10A
Collar elev. 2086' By Q Rowe Scale 1"=20' Date 6/75 P. 14

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure foliation	Rock Type	Description	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
2200				med grey w/ slight tan tinge	60°-65°		distinctly finer grained 1-2 mm ϕ fragments with ~ 20% wispy tuffaceous laminae v. uniform texture. From 2200 - 2246 may be a more accurate example of Flaser structure.					
2220					55°-60°							
2240					60°							
2260	recovery 100%				65°		INTERBEDDED Quartz sericite schist and Quartz, graphite, pyrite, sericite schist (mixed felsic tuffs + tuffaceous carbonaceous euxinic sediments) felsic pyroclastics fine - med gr. + retain this Flaser structure observed in the above unit					
2280	95%	[5-29% py] [2-4% py]		light to dk grey dep. on graphite content	60°		black carbonaceous (graphitic) laminae make up from 5-40% of the siliceous carb. pyritic tuffaceous pyroclastics. They often have an irregular contorted texture with sort of lenticular, ribboned + beady ϕ fragments surrounded by black carbonaceous laminae. Pyrite content varies .5-3% + occurs as semi euhedral beady blebs, patches + xtals. About 75% of this unit is carbonaceous					
2300					55°-65°							
2320					60°		v. stg. graphitic					
2340					60°		v. stg graphitic					
2360	5 0 5 40 80 95 95				65°		entire sequence strongly bedded (= foliation). Stg. fol. plus the carbonaceous bands form very thin slivery slices, which jam core barrel + cause short core runs.					
2380	0						core loss missing Bx # 245					
2400	98+			LT tan gr			description next page					

PROJECT KAY MINE #3293 HOLE No. K-10A

Co-ord. 1,113,287N 425,325E

Collar elev. 2086' By D. Bowe Scale 1"=20' Date 6/75 P.15

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	Mo	Pb	Zn
2400					65°						
2420				pale grn tan	65°						
2440 +98%		[py]			65°						
					60° (65°)						
2460	-	3% py	-	dk gray w/ g.k.	[a]						
					(consistently 50°)						
2480		[py]			60°	b					
98+%											
2500					60°						
2520				pale grn to pale grn tan							
2540					60° (varies 58°-62°)	b					
50											
2560		[py]									
98+%					60°	b					
2580											
2600											

Quartz Sericite schist
(felsic tuff)

- med-fn gr. (beg. finer w/ depth)
- uniform texture: med. to csc siliceous subangular-pyroclastic debris ribboned with regular to irregular v. fine tuff. Locally appears to be flaser structure ghosty fragmental texture

} qtz, graphite, pyrite, clay schist

- mod-sty bedded (= foliation)

↓ beg very f. grained sericite content increasing qtz content decreasing

↓ beg fine to med grained

- well laminated, $\frac{1}{16}$"-$\frac{1}{8}$" bands of f.g. tuff (qtz-sericite) and ~1mm granular quartz

PROJECT KAY MINE #2293
Co-ord. 1,113,287 N 425,325 E.
Collar elev. 2086' By Q Rowe Scale 1"=20' Date 6/76 P. 16

HOLE No. K-10A

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type
2600						
					60°	
2620						
		py-d parhaps .1-.2% T.S.		lt. grey	60°	
2640				locally slight pale grn tinge		
2660		[1% py 20']			60°	
2680						
					varies 55-70°	
2700	RECOVERY 98+%					
2720					varies 50-60°	
	5 cp	30 py				
	Tr cp	.2 py				
	2 cp	10 py				
	Tr cp	.5 py				
	8 cp	5 py				
2740	Tr cp	3 py				
	8 cp	18 py				
	Tr cp	.5 py				
	.5 cp	20 py				
2760	Tr cp	3 py				
	—	.5 py				
	—	5 py			50-55°	
	—	.5 py				
2780	—	4 py			60°	
					60°	
2800						

Quartz sericite schist
(felsic tuff to rhyolite pyroclastic)

- fine to med grained.
- well laminated as defined by bands 1/64"-1/4" representing either f.g. tuff or m.gr. xtal-lithic tuffaceous debris.
- laminae vary in color from white, to med grey, to dark grey
- Pyrite locally abundant, occurring as laminae, or blebs in laminae
- Chalcopyrite locally present as laminae or blebs in laminae
- Chalcopyrite occurs in conjunction with a black greasy mineral which probably is black chlorite. Represents black chlorite stringer mineralization?
- very regular foliation surfaces. Only locally very mildly undulating

below 2771 pyrite occurs as numerous discontinuous lens up to 1/8" thick

INTERVAL	Cu	ppm Au	Pb	Zn	ppm Ag
	36		26	80	-1
	70		770	.11	1
	305	.11	95	.10	1
	0.28	.03	0.10	3.88	4
	248	-.02	55	220	-1
	400	.05	18	123	-1
	1.05	.28	75	.11	.5
	442	.24	17	.94	-1
	0.18	.69	78	1.84	2
	812	.51	22	.40	-1
	128	-.01	18	173	-1
	.12	-.01	55	355	1
	.24	.03	285	1.11	2
	308	.03	70	.20	1
	112	.10	67	.37	1
	142		148	.59	1
	232	.08	138	.71	2
	66		802	.26	2

PROJECT KAY MINE #3293 HOLE No. R-10A

Co-ord. 4,113,287 N 425,325 E.

Collar elev. 2086' By [illegible] Scale 1" = 20' Date 6/76 P.17

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type	Interval	Cu	PPM Au	Pb	Zn	PPM Ag
2800												
								58		316	744	1
				med gray								
								84		14	105	-1
2820					60°							
				lt to med gray				16	-.02	17	63	-1
					60°							
					54°			56		12	69	-1
2840					53°			20		12	47	-1
					52°			38		16	130	-1
2860				med gray								
					55°			40	.06	250	705	1
98+% recovery	tr cpy	4% py		med gray cream	55°			96		680	.32	2
2880								0.10	.13	135	370	8
	.3 cpy	20 py						0.31	.23	75	0.19	4
	8% cpy	10 py		dk gray				4.85	.34	360	0.10	17
								5.67	.29	410	760	11
2900	tr	tr			58°			0.19	.05	35	755	11
								190		.10	.38	2
								448		620	785	3
	.1 cpy	Tr py		med gray				930		82	539	5
	3 cpy	2 py						2.78	3.1	0.18	975	59
2920	.2 cpy	10 cpy						574	.65	54	.87	2
								.12	.84	70	895	3
	-	5 py [1%]			50°			88		152	.15	1
								42		29	130	-1
2940	-	Tr py	-	med gray gray	60°			28		125	320	1
50	Tr cpy	4 py [8%]						538	.54	225	1.00	2
98	5 cpy	10 py		varies lt gray to dk gray to black gray	58°			3.60	.16	190	722	10
60	Tr cpy	1 py						.13	.37	68	.40	1
98								172		25	239	1
20												
2960 98	-	Tr py						74		40	260	-1
98								234		64	463	1
98					55°							
80	.3 cpy	7 py						.36	.09	220	.31	3
	1 cpy	10 py						.72	.14	300	.22	6
2980					56°							
	-	Tr py						460		42	290	1
	-	[2%]						336		160	810	1
98+%	-	5 py						90		115	.11	1
3000					57°			156	.18	239	.13	2

as above

Fault contact

} Chlorite schist. f.gr. metaandesite? sed?

Quartz-sericite-chlorite schist (felsic-intermed lithic tuff)

30% qtz sericite

3% schist metaandesite dike?

- fine to v.fn laminae w/ stretched f.gr. lithic fragments
- color varies slightly over short intervals (2-10') indicating compositional changes
- v. stg foliated. Surfaces flat + regular
- laminated; or pseudo-lam. texture defined by wispy, patchy + lenticular color variations representing thin laminae or stretched fragments

} Chlorite schist f.gr. metaandesite? sed?

fault?

Quartz Sericite pyrite schist

fine-med gr. laminated, alternating qtz, tuff, pyrite bands, zns, lenses, wisps

beg. contorted + brecciated (secondary)

Qtz-chlorite-pyrite-chalcopyrite schist

granular texture w/ dis pyrite + blotchy chalcopyrite

Quartz Sericite chlorite? schist (Lapilli tuff)

- strongly foliated + laminated
- tuff fraction contains a large proportion of black chlorite
- locally conformable pyrite + chalcopyrite as laminae, or disseminated in laminae
- average 10-40% lapilli fragments stretched ~3:1 in the plane of the foliation

Quartz sericite schist

- f.gr. w/ scattered lapilli
- slight mottled appearance
- stg foliated + laminated

Quartz-sericite-tr chlorite sulfide schist (felsic-intermed? tuff)

- f.gr.
- variable over short intervals
- stg foliated + laminated
- pyrite occurs as, or in laminae. cpy occurs in laminae or as blotches
- highly variable color combination of laminae depending on abundance of constituents: qtz-sericite-py-cpy-chlorite

- black chlorite almost absent
- tuff beg. med. gr.

2998-3003 m gr. greywacke(?) w/ 10% 3:1 stretched clasts up to 5mm

PROJECT KAY MINE # 3293 **HOLE No.** K-10A

Co-ord. 1,113,287 N 925,325 E

Collar elev. 2086' By R. Rowe Scale 1" = 20' Date 6/76 P.18

Recovery	Base Metal Mineralization	Pyrite Limonite		Color	Structure Foliation	Rock Type	INTERVAL	ANALYSES ELEMENT Cu	PPM Au	Pb	Zn	PPM Ag
3000								138		216	690	2
3020	–	3% py		lt grey-white	53°			116		.11	.14	4
								32	.04	160	300	1
3040					53°			40		220	400	2
								42		260	891	3
3060				lt-med grey	45°			104	.18	.13	.44	11
	–	>5% py			45°			78		648	.37	5
3080					47°			21		20	90	-1
					50°			21		10	85	-1
3100					52°			54		25	200	1
3120	98+% recovery	–	Tr py	med grey	55°							
				locally w/ slight grn trige	53°							
3140					55°							
3160					50°							
3180				mod. dk grey	57°							
					58°							
3200												

Quartz sericite pyrite schist

(pyritic felsic tuff)

- stg foliated
- very consistant + uniform texture
- med grained
- commonly laminated as defined by f. gr wispy + discontinuous laminae in the m. gr textured rock
- grading into a lapilli-pyritic tuff
- course textural characteristics
- locally a brecciated-boudinage texture
- finer gr. tuff laminae present

gradational contact

Greywacke

- locally appears slightly tuffaceous
- med grained, consistant, 1 mm grain size with a dk grey matrix
- very uniform texture
- massive appearing
- moderately foliated
- locally minor discordant qtz veining (1")
- very sparse, sporadic pyrite laminae(?).
- very little bedding indicators

- bcg slightly coarser
- contains locally abundant siliceous clasts (white) up to 1 cm, which have been stretched up to 3:1 in the plane of the foliation