E.A. 3103

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D of M | A.O. | C.G. | E.O. | D.S.I.R. Registrar
D. DIR. | 25 JUN 1985 | E & IL
DEPT. OF MINES
REF. No. 6499/85

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG SK 5

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

SOCK CREEK SK-55/3 1081E 1080N

COMMODITY/IES:

Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E. KEANE

DATE: March 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG

Summary Sheet

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PROJECT E.L. 5/63	AREA SOCK CREEK		DRILLHOLE TYPE
CO-ORDS 1081E 1080N	DEC^{LN} 45°	AZIMUTH 90.5° mag.	RL
			DH No. SK5
DATE COMMENCED 1.3.75	DATE COMPLETED 6.3.75	DRILLED BY LONGYEAR	DRILL RIG
Non Coring to:	HQ Core to:	NQ Core to:	BQ Core to:	EOH 169.16 m

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH

LOG SUMMARY

ROCK TYPE		MINERALIZATION Style	Grade	Intersection width (Corr)
0 - 18.00m	Quartz-feldspar porphyry - weathered and chloritised.			
18.00 - 59.44	Crystal tuff. Quartz veins, some sulphides.	Galena and pyrite whisps.		
		35.00$_m$ Galena, sphalerite and chalcopyrite within quartz-carbonate veins.		
59.44 - 77.80	Quartz-feldspar porphyry. Feldspar kaolinised.	Galena and pyrite associated with veins.		
77.80 - 78.16	Brecciated zone. Suggary quartz vein and shaley material with associated sulphides.	Sphalerite and galena (honeyblende) within quartz vein.		
78.16 - 139.00	Quartz-feldspar porphyry. Chloritised. Feldspar kaolinised in part.			
139.00 - 157.37	Shear zone.	Two varieties of sphalerite associated with quartz veins.		
157.37 - 169.16	Crystal tuff - chert-like sheared and chloritised. Quartz-carbonate veining.			

N.W.P.S.

Signature | Date

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E.L. 5/63 SOCK CREEK D.D.H. SK5

1. INDICATED VALUES OF ORE

1% Zn cut off

77.16 m to 78.16 m	1.10% Zn;	<0.01% Pb;	<0.01% Cu;	x	1.0 m	D.T.
105.00 m to 106.00 m	2.10% Zn;	5.60% Pb;	0.02% Cu;	x	1.0 m	D.T.
122.00 m to 123.00 m	1.30% Zn;	3.20% Pb;	0.98% Cu;	x	1.0 m	D.T.
124.00 m to 125.00 m	6.00% Zn;	0.88% Pb;	0.02% Cu;	x	1.0 m	D.T.
128.00 m to 130.00 m	3.75% Zn;	<0.01% Pb;	<0.01% Cu;	x	2.0 m	D.T.
139.00 m to, 140.00 m	3.90% Zn;	<0.01% Pb	0.05% Cu;	x	1.0 m	D.T.
141.00 m to 142.00 m	3.80% Zn;	0.19% Pb;	0.03% Cu;	x	1.0 m	D.T.
N.B. 140 - 141 m only 2% core recovery consisting of q.v. fragments.						
145.0 m to 146.0 m	6.5% Zn;	0.07% Pb;	0.03% Cu;	x	1.0 m	D.T.
149.33 m to 153.83 m	4.06% Zn;	0.04% Pb;	<0.01% Cu;	x	4.5 m	D.T.

99
89
89
89
100
100
95
99
99

n = 9
x̄ = 82
s = 31

0.5% cut off

77.16 m to 78.16 m	1.10% Zn;	<0.01% Pb;	<0.01% Cu;	x	1.0 m	D.T.
105.00 m to 107.00 m	1.06% Zn;	3.06% Pb;	0.02% Cu;	x	2.0 m	D.T.
122.00 m to 123.00 m	1.30% Zn;	3.20% Pb;	0.98% Cu;	x	1.00 m	D.T.
127.00 m to 131.00 m	2.36% Zn;	0.02% Pb;	<0.01% Cu;	x	4.0 m	D.T.
139.00 m to 153.83 m	2.40% Zn;	0.05% Pb;	0.01% Cu;	x	14.83 m	D.T.
122.00 m to 131.00 m	1.91% Zn;	0.14% Pb;	0.12% Cu;	x	9.00 m	D.T.
Note copper values						
131.00 m to 132.00 m	0.07% Zn;	<0.01% Pb	0.64% Cu;	x	1.0 m	D.T.

2. CASING LEFT IN HOLE

Nothing left in hole.

3. CORE RECOVERY

metres drilled	169.16 m
metres recovered	151.81 m
percentage recovery	89.7 %

4. WATER TABLE

Not recorded

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PROJECT: SOCK CREEK

DIAMOND DRILL HOLE No. SK5 TYPE Drill Hole CO-ORDINATES 1081E 1080N INCLINATION 45° DIRECTION 90.5° mag.

DATE START 1.3.75 DATE FINISH 6.3.75 LOGGED BY E. Keane DRILL CO. LONGYEAR FINAL DEPTH 169.16 m

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	Core Rec.%	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS	Cu	Pb	Zn	Hg	Ba
	5.18	5.18	3.59	69.30		0-5.18 Quartz-feldspar porphyritic extrusive, grey-green with quartz rhombs (3mm) in a fine grained partly chloritic matrix, cut by an intermesh of fine iron stained fractures. Limonite ± manganese on fracture surfaces.						
5.18	12.00	7.01	0.51	7.28		5.18m-12.00 As previously sheared						
					T3410	12.00-13.00 Weathered and fragmented porphyrite. Pinkish feldspar lath kaolinised, quartz rhombs residual cut be defined quartz veining (to 2cm wide) possible along fracture zones. Chloritised.		32	82	112	35	220
					T3411	13.00-14.00 As previously. Limonite ± manganese material as residual product.		34	110	170	40	240
7.01	15.21	3.03	1.02	33.77	T3412	14.00-15.00 As previously		54	92	350	30	190
					T3413	15.-16.00 As previously		26	36	210	25	190
3.03	16.76	1.55	0.83	53.54	T3414	16.00-17.00 As previously		24	52	480	25	220
					T3415	17.00-18.00 As previously. Feldspar phenocrysts partially kaolinised.		22	26	360	25	270
1.55	18.28	1.48	1.72	116.22	T3416	18.00-19.00 Crystal tuff, fresh with crystals of pinkish feldspar (subangular) and rhombs of quartz forming the mass of the rock, set in a black chloritic matrix. The crystals have an apparent alignment (due to bedding or shear?) parallel to the drill core. Cut by defined quartz veins(with CA=45°& 80°). Some aggregates of galena and associated sphalerite within the main part of the rock but generally within the veins. Films of pyrite.		18	22	350	30	330
					T3417	19.00-20.00 As previously. Increase in sulphides		20	42	3400	230	240
1.48	19.81	1.53	1.62	105.88	T3418	20.00-21.03 As previously		20	46	940	80	180
	21.03	1.22	1.01	82.79	T3419	21.03-22.00 As previously Sulphides rare Sheared (CA=15°) Few fine carbonate veins		16	32	270	45	210
					T3420	22.00-23.00 As previously. Carbonate content in quartz veins (possibly dissolved from those higher in core resulting in v uggy appearance).		20	20	160	45	200

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APPENDIX 1.

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PROJECT: SOCK CREEK

LOREHOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T3421	23.00 - 24.00 As previously	22	22	94	40	230
	24.00	3.05	2.90	97.70	T3422	24.00 - 25.00 As previously, Vuggy and grading into a lapilli tuff in part	20	34	78	25	210
					T3423	25.00 - 26.00 As previously	16	42	150	30	280
	25.91	1.83	1.72	93.99	T3424	26.00 - 27.00 As previously	20	16	70	35	250
					T3425	27.00 - 28.00 As previously	26	20	62	25	190
					T3426	28.00 - 29.00 As previously	14	60	90	25	290
	28.96	3.05	2.93	96.07	T3427	29.00 - 30.00 As previously, Galena and pyrite whisps.	70	20	80	35	210
~~Petrographic sample T343~~					T3428	30.00 - 31.00 As previously, But by 13 cm quartz vein with 6% galena	150	0.41%	2600	180	150
~~described as:* Porphyritic sodic~~						and some chalcopyrite.					
~~rhyolite obsidian.~~					T3429	31.00 - 32.00 Sample T343	80	66	550	80	200
	32.00	3.04	2.99	98.40	T3430	32.00 - 33.00 As for T343 Sheared.	68	110	480	65	190
					T4237	33.00 - 35.05 Crystal tuff. Over 1st 0.70m sheared with intense and random quartz and quartz carbonate veining. Mottled pinkish (feldspar) with milky quartz rhombs within a dark chloritic matrix. Very silicified.	40	70	84	20	200
	35.05	3.05	2.94	96.40	T4238	35.05 - 38.1 Rock type as previously. 1% galena and associated sp (honey blende) within quartz carbonate veins. Veins random and with CA=15°	60	62	330	25	220
	38.1	3.05	3.00	98.40	T4239	38.1 - 41.15 As previously. 1% galena, sphalerite and chalcopyrite within quartz-carbonate veins. Brecciated and agglomeritic in part with intense quartz-carbonate veining. One set of veins with CA=72°.	28	380	140	20	150
	41.15	3.05	3.12	102.30	T4240	41.15 - 42.67 Rock type as previously. Very silica rich and cherty in appearance. Defined quartz-carbonate veins (up to 1 cm) one set at CA40° aggregate within veins.	40	36	48	10	150
					T4241	42.67 - 47.21 As previously becoming darker and more chloritic. Less defined quartz veining but defined rather an intermeshing of fine hair line often iron stained fractures.	50	20	44	x	160
	47.29	6.16	6.07	98.50	T4242	47.29-50.29 Crystal tuff as previously sheared. 48.00 - 49.00 Intense quartz-carbonate veining with some associated galena aggregates.	26	106	60	35	260
	50.29	3.08	2.97	96.40	T4243	50.29 - 53.34 Rock type as previously. Pyrite aggregates throughout and films along fracture surfaces.	70	36	66	20	190
	53.34	3.05	3.08	101.0	T4244	53.34 - 56.38 Crystal tuff as previously grading into fine grained chloritised tuff/siltstone in part. Quartz-carbonate (clay yellow- possibly ankerite) vein	34	24	58	30	300
	56.38	3.04	2.95	97.0	T4245	56.38 - 59.44 As previously	26	30	76	50	300

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PROJECT: SOCK CREEK

DRILL HOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
	59.44	3.06	3.06	100.0	T4246	59.44 - 62.48 As previously. Rock type grading from a porphyritic extrusive (crystal tuff) to a fine grained tuff or siltstone. One set quartz - carbonate veins CA=40°, another set at 90° to this.	30	28	56	25	280
	62.48	3.06	3.10	101.3	T4247	62.48 - 65.53 As previously. Trace pyrite aggregates throughout and trace galena aggregates within veins.	36	58	42	20	230
	65.53	3.05	2.86	93.8	T4248	65.53 - 68.58 As previously. Over last 1.00 m becoming more coarsely crystalline, (quartz and feldspar phenocrysts up to 4 mm) and then very brecciated with intense quartz veining. From 68.10-68.58 quartz zone with minor angular brecciated rock particles. Rare galena and pyrite aggregates within veins.	24	40	74	30	240
	68.58	3.05	3.07	100.7	T4249	68.58 - 71.63 Rock type as previously very chloritised. Brecciated with intense quartz veining - generally irratic but with some preferred alignment CA=33°. Carbonate (ankerite?) veining making a plane at 100° to the quartz veins.	30	240	160	30	130
	71.63	3.05	2.98	97.70	T4250	71.63 - 74.68 T344 'Porphyritic rhyolite obsidian'	28	34	86	30	200
	74.68	3.05	3.07	100.70		74.88 - 75.16 As for T344 Some galena aggregates					
					T3431	75.16 - 76.16 As for T344	20	40	140	30	250
					T3432	76.16 - 77.16 As for T344. Feldspar laths kaolinised	22	26	200	35	200
	77.72	3.04	2.99	98.40	T3433	77.16 - 78.16 As for T344. Feldspar kaolinised. Becoming very silica rich with cherty appearance. Over last 0.34m A brecciated zone (CA=56°) with an outer suggary quartz zone, followed (downward) by sphalerite vein (honeyblende), then carbonaceous shaley material, then a zone (3cm) brecciated shale particles in a matrix of sphalerite and quartz. Over last 8 cm is suggary quartz. Aggregates of pyrite partially fill vug and appears along fracture surfaces.	20	44	1.10%	630	170
					T3434	78.16 - 79.16 Chloritised quartz-feldspar (kaolinised) porphyrite cut by some quartz carbonate veinlets and grading into fine grained crystal tuff over last 0.30m	26	22	96	25	250
						79.16 - 80.77 Fine grained vitric crystal tuff grading into a pinkish coarsely crystalline porphyrite, with quartz rhombs to 6mm. Cut by fine hairline quartz-carbonateveins; one set CA=35° another at 90° to this.					
	80.77	3.05	2.84	93.10		80.77 - 83.82 As previously becoming more chloritised. Some galena aggregates within veins.					
	83.82	3.05	2.96	97.0		83.82 - 86.86 Quartz-feldspar porphyritic extrusive cut by quartz-carbonate veins CA=45°					

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PROJECT: SOCK CREEK

BOREHOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
	86.86	3.04	2.96	97.4		86.86-88.00 As previously. Trace pyrite and galena					
					T3435	88.00-89.00 Rock type as previously. Feldspars kaolinised. Sheared	16	20	2000	150	110
						with quartz veining along fracture zones. Some veins (CA=45°) of galena					
						pyrite and associated pale pinkish sphalerite (honeyblende) 1%					
	89.91	3.05	2.89	94.80	T3436	89.00 - 90.00 As previously. Very sheared and brecciated. Galena and	32	68	1100	110	110
						sphalerite associated with quartz veining.					
					T3437	90.00 - 91.00 As previously. Less sulphides.	86	500	3200	180	120
					T3438	91.00 - 92.00 Rock type as previously. Approx 2% sulphide (galena,	190	900	2000	125	200
						chalcopyrite, pyrite and sphalerite) within quartz vein (CA=80°).					
						Feldspars very kaolinised and also oxidised (brownish stain) on exposed					
						surface.					
					T3439	92.00 - 93.00 Rock type as previously. Less sulphides. Pyrite aggregates	24	58	94	35	150
						along fracture surfaces.					
	92.90	3.05	2.96	97.0	T4251	93.00 - 96.01 Crystal tuff. Mid grey-green. Quartz rhombs (2mm) and	12	34	140	30	120
						kaolinised feldspar laths (2mm) set in fine grained chloritised matrix.					
						Crystal size gradually increasing to 4mm towards 96.01. Less veining					
						than previously.					
						Oxidation (brown stain) of kaolinised feldspar on exposed surfaces.					
						Some pyrite aggregates within vugs.					
	96.01	3.05	2.87	94.10	T4252	96.01-99.06 Rock type as previously. Feldspars fresh. Sheared with	46	62	78	40	310
						random quartz and quartz carbonate veining. Thread of galena and					
						associated pyrite within quartz vein (CA=80°)					
	99.06	3.05	2.86	93.80	T4253	99.06 - 100.02 Rock type as previously. Feldspars kaolinised. Very	240	90	700	85	170
						sheared and fragmented core.					
	100.2	1.14	0.98	86.00	T4254	100.02 - 102.11 As previously. One set of quartz-carbonate veins (very	32	24	94	20	180
						fine = 1mm) with CA=60° is off-set by another set in the opposite plane					
						with CA=25°					
					T4255	102.11-105.00 As previously.	60	30	270	40	1000
	105.16	3.05	2.96	97.0	T3440	105.00 - 106.00 Rock type as previously. At 105.65m a quartz vein	240	5.6%	2.10%	820	240
						(true width 2 cm) consisting mainly of galena and two varieties of					
						sphalerite - honeyblende and Fe rich.					
					T3441	106.00 - 107.00 Rock type as previously. Less sulphides. Pyrite	82	0.52%	190	55	170
						aggregates along fracture surfaces. Quartz carbonate veins CA=50°)					

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

DRILL HOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T3442	107.00 - 108.00 Rock type as previously. Some threads of galena	32	38	44	25	270
						(1%). Feldspars fresh. Crystal size increasing to 4mm.					
	108.2	3.04	3.04	100.0	T4256	108.00 - 111.25 Quartz-feldspar porphyritic extrusive . Rhombs of	16	30	32	20	540
						quartz (0.5 cm) and subangular pinkish laths of feldspar (0.5 cm) set					
						in a fine grained matrix - chloritised in part. Fine quartz-carbonate					
						veins CA=40°					
	111.25	3.05	2.95	96.70	T4257	111.25 - 114.30 Rock type as previously. At 113.40 - 114.30 feldspars	20	28	102	30	380
						kaolinised. At 113.50 quartz carbonate vein (true width 1 cm) consisting					
						of a zone of carbonate (yellowish, possibly ankarite), then an inner					
						zone of quartz. At the interface of these two zones is sphalerite and					
						galena (1%). There is an outer carbonate zone (CA=13°)					
	114.30	3.05	2.91	95.40	T4258	114.30 - 117.35 Rock type as previously. Galena aggregates within	22	340	220	50	120
						quartz veining along shear zone from 177.00 - 177.35.					
	117.35	3.05	2.64	86.60	T4259	117.35 - 119.48 Rock type as previously. Feldspar fresh. Galena and	28	24	450	55	240
						sphalerite within quartz vein (CA=50°)					
	119.48	2.15	1.93	89.80	T4260	119.48 - 120.40 Rock type as previously	24	20	90	35	400
	120.40	0.91	1.04	114.3	T1128	120.40 - 121 Quartz feldspar porphyritic extrusive. Subrounded pinkish	900	80	120		160
						feldspar crystals (2mm) and rhombs of quartz in fine grained chloritised					
						matrix. Cut by quartz (with minor carbonate) veining (CA=45°). Carbonate					
						veining threadlike and random, 1% chalcopyrite associated with quartz veins					
					T1129	121 - 122 Rock type as previously. Quartz vein (CA=10°) off-sets others	3420	1150	4900		280
						(CA=80°) and contains 1% galena and associated sphalerite. Over last					
						23 cm quartz vein (CA=50°) with a thread like array of minerals zoned from galena					
						and sphalerite (honeyblende and Fe rich) at the highest to pyrite					
						and chalcopyrite down the hole.					
					T1130	122-123 Rock type as previously sheared with 60% quartz veining (of	9800	3.2%	1.30%		110
						this sulphide 60%) At 122 - 122.23 chalcopyrite plus minor pyrite and					
						galena occurs within the vein. From 122.40 - 122.64 galena and					
						sphalerite with minor chalcopyrite. There appears to be a sharp					
						boundary between the two sphalerite (honeyblende and Fe rich)					
						thus two intrusive phases(honeyblende is surrounded by the Fe rich					
						variety).					
	123.44	3.05	2.93	96.10	T1131	123 - 124.00 Rock type as previously. Feldspars kaolinised for 1st 0.30m	60	270	740		170
						Quartz carbonate veining approximately parallel to core with some galena					
						and sphalerite (1%) as threads and specks.					

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APPENDIX 1.
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PROJECT: SOCK CREEK

DRILL HOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1132	124.00 - 125.00 Rock type as previously.Quartz-carbonate vein to 4 cm thick and approximately parallel to core. Sulphide content approximately 15% consisting of galena sphalerite (honeyblende + Fe rich) within the veins.	170	8800	6.0%		300
					T1133	125.00 - 126.00 Rocktype as previously, feldspars kaolinised over last 0.24 m. Less sulphides (galena and sphalerite 2%) appearing as thread (2 mm) within the general rock approximately parallel to drill core.	22	48	2680		1470
	126.09	3.05	2.94	96.40	T1134	126.00 - 127.00 Rock type as previously. Brecciated zone, fragmented core. Feldspars kaolinised sulphides 1%	50	150	1230		230
					T1135	127.00 - 128.00 Rock type as previously. Feldspars fresh and pinkish. Sulphides = 4% consisting of galena and sphalerite as a vein 4mm (true width) approximately parallel to drill core.	20	840	9100		300
					T1136	128.00 - 129.00 Rock type as previously. Sulphides 10% consisting of sphalerite (both varieties) ± galena with quartz carbonate veining (parallel to drill core).	48	30	3.8%		190
	129.23	2.74	2.97	108.40	T1137	129.00 - 130.00 As previously. Sulphide = 7% sphalerite (honeyblende Fe rich)	45	28	3.7%		260
					T1138	130.00 - 131.00 As previously. Sheared and brecciated. Very fragmented over 1st 0.50 m. Sulphides associated with quartz veining (sphalerite and galena and minor chalcopyrite) = 2%	120	5	9900		140
					T1139	131.00 - 132.00 As previously. Sulphide (chalcopyrite, pyrite and galena) within quartz veins = 5%	6400	28	740		120
	132.58	3.35	2.75	82.10	T1140	132.00 - 133.00 Rock type as previously sheared chalcopyrite and galena within quartz carbonate veining. = 4%	1780	170	880		120
					T1141	133 - 134.00 Sheared zone. Quartz with minor carbonate (possibly primary vein appears as brecciated inclusion within the quartz and off-set by quartz) veining along shear = 80%. Sulphides (chalcopyrite, pyrite, galena) = 7%	1500	110	700		130
					T1142	134.00 - 135.00 Crystal tuff. Very sheared and silicified. Milky quartz = 80%. Specks of chalcopyrite, pyrite, sphalerite, ± galena = 1% within quartz.	240	90	60		160
	135.63	3.05	3.23	105.90	T1143	135.00 - 136.00 As previously. Quartz in veins appears to brecciate carbonate content therefore quartz later stage.	230	200	38		190
					T1144	136.00 - 137.00 Rock type as previously. Sphalerite ± galena within veins.	22	140	930		170

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1145	137.00 - 138.00 Quartz feldspar porphyritic extrusive. Crystals subrounded in a fine grained cherty type matrix. Quartz-carbonate veining (CA = 35°) with Fe rich sphalerite inclusions (1%). Another set of carbonate rich veins approximately parallel to drill core.	15	<5	48		170
					T1146	138.00 - 139.00 As previously	10	10	120		190
					T1147	139.00 - 140.00 Sheared zone. Milky quartz veining = 80% Sphalerite (honey blende and Fe rich) = 15% within vein along shear.	470	35	3.9%		160
					T1148	140.00 - 141.00 Shear zone, fragmented zone. Whole core 2% consisting of quartz fragments.	15	22	360		140
	141.73	6.10	4.92	80.66	T1149	141.00 - 142.00 Shear zone. Chloritised crystal tuffaceous country rock with quartz vein along shear zone with associated sulphides (sphalerite, both varieties and minor galena). = 20%	290	1900	3.8%		85
					T1150	142.00 - 143.00 Shear zone as previously sulphides (sphalerite with some chalcopyrite) 5%	550	380	2650		170
					T1151	143.00 - 144.00 Shear zone as previously. Very brecciated carbonate within quartz veining. Wholecore 5%. Sulphides less	95	170	8200		115
	144.78	3.05	2.76	90.49	T1152	144.00 - 145.00 Shear Zone as previously. Core recovery = 2%. Fe-sphalerite within quartzveins.	50	1300	6500		80
					T1153	145.00 - 146.00 Shear zone as previously Sphalerite (both varieties) = 9% of whole core (which = 10%)	250	650	6.5%		75
					T1154	146.00 - 147.00 Shear zone. Whole core 1% Sphalerite associated with quartz veining.	15	1330	5000		110
					T1155	147.00 - 147.83 Shear zone. Whole core 5% Sphalerite within quartz veins.	8	180	1180		120
	147.83	3.05	2.72	89.18	T1159	147.83 - 148.33 Carbonated and sheared chert-like rock with zones of dark grey shale and/or sphalerite material and carbonaceous inclusions. Shearing approximately parallel to drill core. Whole core = 10%	8	42	700		140
					T1160	148.33 - 149.33 Shear zone consisting of chloritised and fragmented volcanic particles set in a fine mid grey (carbonaceous) matrix in contact with a silicified grey siltstone. Contact CA = 35°. Some bedding is apparent within the siltstone (CA = 5°) Trace sphalerite and galena. Whole core = 5%	10	210	6500		160
					T1161	149.33 - 150.29 Shear zone. Rock types as previously. Irregular veinlets and spots of sphalerite (honeyblende) within the siltstone. Whole core = 1%	18	230	1.90%		250

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK5 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1156	150.29 - 150.87 Sheared dark grey chert like rock cut by fine	55	700	8.0%		115
						carbonate veinlets. Associated with these veinlets and the siricitised					
						contact (CA = 7°) are fine threads (up to 2mm) of both varieties of					
						sphalerite. Some films of galena.					
	150.87	3.04	2.91	95.72	T1157	150.87 - 151.87 As previously	28	440	3.4%		125
					T1158	151.87 - 152.83 Very sheared and brecciated angular remnants of mid	75	750	7.5%		110
						grey cherty material in a carbonaceous and sphalerite stockwork.					
					T1162	152.83 - 153.83 As previously	10	85	1.20%		60
	153.92	3.05	3.25	106.55	T1163	153.83 - 154.83 As previously	5	10	2150		85
					T1164	154.83 - 155.37 As previously	5	12	280		120
					T1165	155.37 - 156.37 As previously. Sulphide rare Shearing with	5	28	230		115
						apparent CA = 30°					
	156.66	2.74	2.73	99.66	T1166	156.37 - 157.37 Mid grey chert. Sheared and brecciated and chloritised	20	32	260		150
					T1167	157.37 - 157.88 As previously	8	20	1030		150
	157.88	1.22	1.19	97.54	T4261	157.88 - 159.41 Rock type as previously. Grading into a possible	18	104	1000	85	130
						silicified siltstone in part. Sulphides rare. Sheared, contorted and					
						chloritised (in part).					
	159.41	1.53	1.37	89.54	T4262	159.41 - 163.06 As previously grading into a dark grey vitric lithic	60	76	800	95	180
						tuff over last 1.00 m Sample T345. 'Volcanomict siltstone'					
	163.06	3.65	4.03	110.41	T3443	163.06 - 164.00 Sheared silicified and chloritised vitric lithic	34	140	4600	185	220
						crystal tuff. At 163.15 - 163.40 a band of cherty like material with					
						carbonate, chlorite and fine veinlets of sphalerite (CA = 30°)					
					T3444	164.00 - 165.00 A sheared and contorted mixture of pale yellowish cherty	32	48	180	20	290
						material and silicified vitric crystal tuff. Cut by quartz carbonate					
						veining. Some iron staining.					
	165.00	1.94	2.27	117.01	T3445	165.00 - 166.00 As previously. Brecciated and sheared (apparent CA=20°)	22	32	160	35	229
					T4263	166.00 - 168.25 As previously. Very friable over 1st 0.15m (possible	16	28	170	35	190
						carbonaceous content) Apparent shearing CA=40° becomming more pale and					
						cherty over last 1.30m. Brecciated.					
	168.25	3.25	3.06	94.15	T4264	168.25 - 169.16 Chert breccia. Pale grey	20	30	60	25	150
	169.16	0.89	0.89	100.0		E.O.H.					

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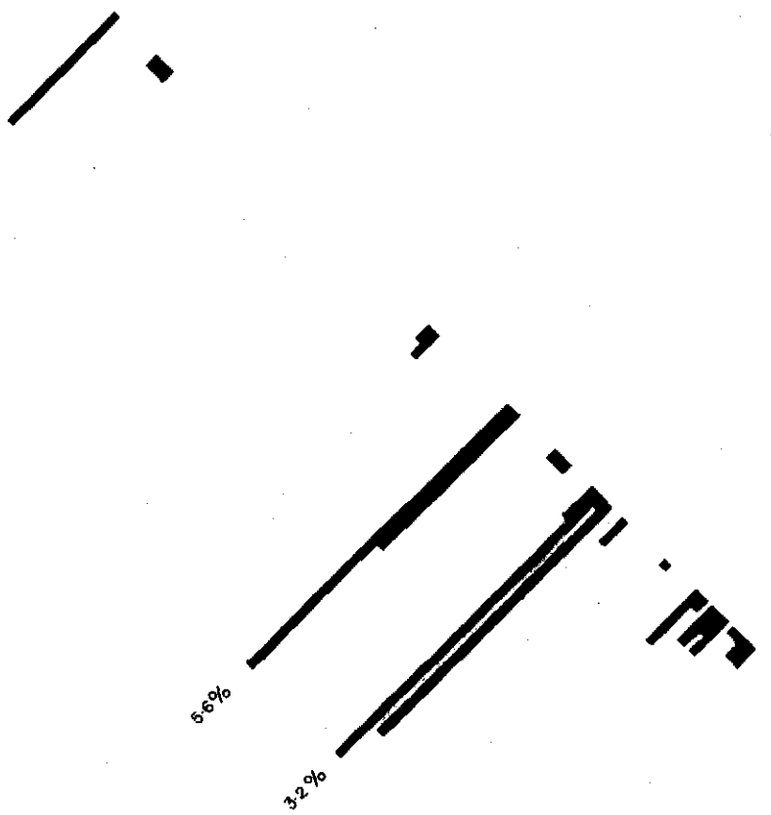

5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT D.D.H. SK5 SECTION LEAD HISTOGRAMS			
DRAWN J H 12/75	COMPILED	SCALE H-1:1000, V=12000ppm	TAS/2/860

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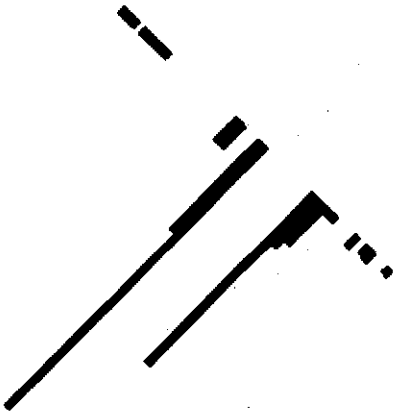

5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT D.D.H. SK5 SECTION COPPER HISTOGRAMS			
DRAWN J H 12/75	COMPILED	SCALE H=1000,V=2000ppm	TAS/2/859

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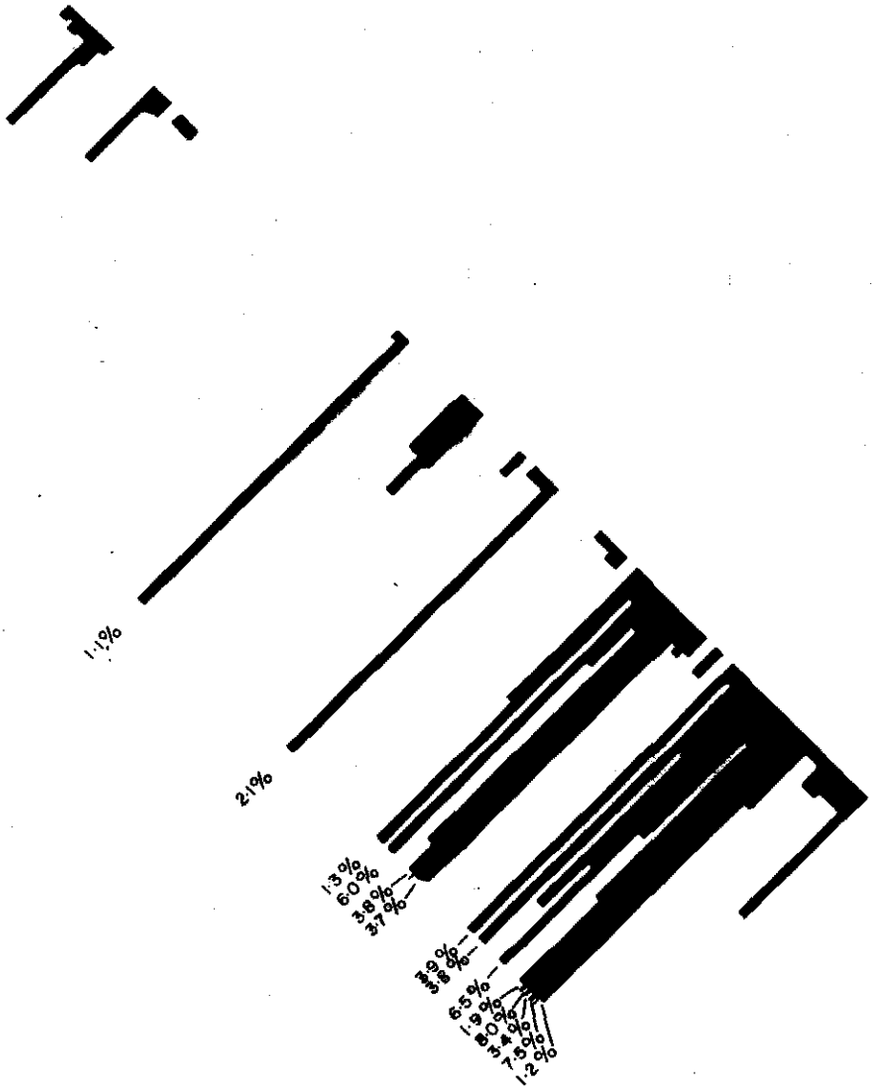

5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT			
D.D.H. SK5 SECTION			
ZINC HISTOGRAMS			
DRAWN J H 12/75	COMPILED	SCALE H-1:1000 V=1:2000ppm	TAS/2/861

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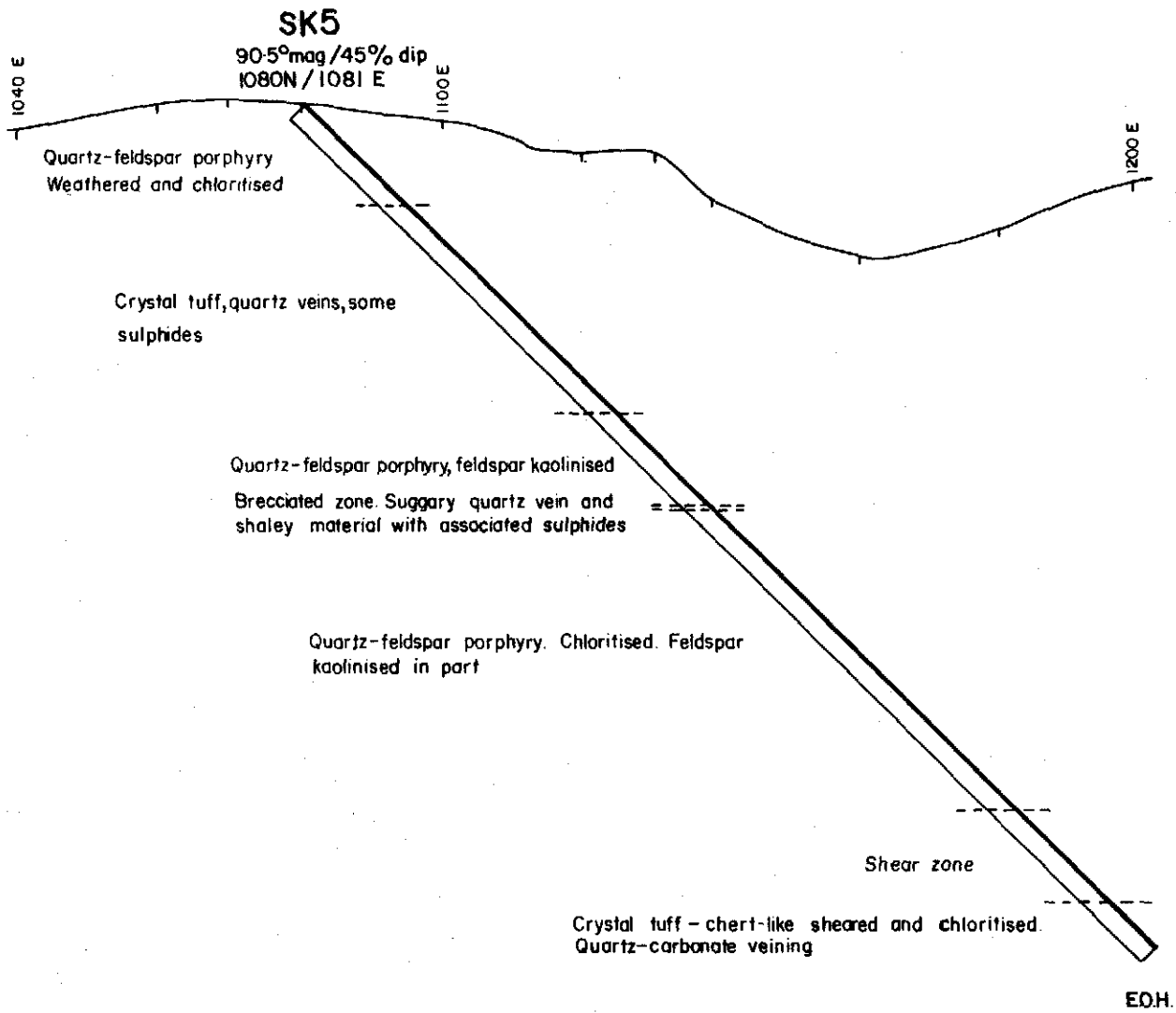

5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT			
D.D.H. SK5 SECTION			
GEOLOGY			
DRAWN J H 12/75	COMPILED	SCALE 1:1000	TAS/2/858

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COMSTAFF PROPRIETARY LIMITED

EL 5/63 SOCK CREEK

DIAMOND DRILL HOLE

SK 4 FEBRUARY 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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143017

APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 4 | TYPE D.D.H. | CO-ORDINATES 760N 1021E | INCLINATION 45° | DIRECTION 090° MAGNETIC

DATE START 20.2.75 N.W.P.S. | DATE FINISH 28.2.75 | DRILLER | COMPANY LONGYEAR | FINAL DEPTH 149.05 METRES

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS					
						Cu	Pb	Zn	Ba	Ag	Au
					0.00 m to 30.74 m Rock is 80% kaolinised with some iron staining. Possibly weathered black carbonaceous shale in part with other sections of crystalline material (remnant structures visible plus quatrz crystals up to 0.5 cm and some evidence of chloritisation)						
	0.00 to				Whole Core Metres.						
NQ	6.09	6.09	1.00	T2754	0.60	8	60	28	65	<1	<0.05
	7.62	1.53	1.10	T2755	0.70	8	25	25	70	<1	<0.05
	9.14	1.52	1.55	T2756	0.85	10	35	42	90	<1	<0.05
	10.66	1.52	1.33	T2757	0.65	8	22	35	50	<1	<0.05
	12.19	1.53	1.57		1.00						
	13.71	1.53	1.90	T2758	0.75	15	130	95	85	<1	<0.05
	15.24	1.53	1.65		1.25						
	17.98	2.74	2.67	T2759	1.53	15	90	85	80	<1	<0.05
	19.61	1.63	1.67		0.98						
	24.38	4.77	0.55	T2760	0.45	5	30	40	110	<1	<0.05
	26.51	2.13	1.40	T2761	0.25	8	48	55	95	<1	<0.05
	28.95	2.44	2.40		0.45						
	30.74	1.79	1.79	T2762	1.35	8	80	150	100	<1	<0.05
					30.74 m to 58.36 m Black carbonaceous silicified shale. Variations in the carbon content defining the bedding plane (core angle 60°). Cut by irregular fractures (chloritised) and by carbonate veinlets (often iron stained and in part dissolved leaving irregular voids). Some galena aggregates associated with the fractures and veinlets. Scattered aggregates of pyrite.						
	31.39	0.65	0.62		0.62						
BQ	34.69	3.30	4.07	T2763	1.00	90	490	3240	140	1	<0.05
	38.10	3.41	3.90	T2764	1.45	45	440	2240	120	1	<0.05
	39.32	1.22	1.47	T2765	0.85	35	350	2460	140	<1	<0.05

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APPENDIX 1.
Page 2

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 4 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... DRILLER ..... COMPANY ..... FINAL DEPTH .....

N.W.P.S.

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	Whole core metres	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au
BQ	40.84	1.52	1.47		0.27							
	41.76	0.92	0.80		0.00							
	42.98	1.22	1.10	T2766	0.00		180	600	5800	120	2	<0.05
	44.17	1.19	1.27		0.62							
	46.03	1.86	1.80	T2767	1.65		38	450	2500	120	<1	<0.05
	47.24	1.21	1.25		1.25							
	49.09	1.85	1.60	T2768	1.50		75	630	2210	130	2	<0.05
	50.31	1.22	1.15		0.73							
	53.34	3.03	3.07	T2769	3.07		45	230	220	100	<1	0.05
	56.39	3.05	2.48	T2770	2.48		140	310	780	130	1	<0.05
	58.36	1.97	1.75	T2771	1.75		48	170	580	120	<1	<0.05
						58.36 m to 69.66 m Lapilli tuff. Some dark olive green to black sections rich in black carbonaceous shale, chloritised and cut by carbonate veinlets . This rock grades into a pale silicified assortment of chlorite, some carbon and an inter-meshing of barite veinlets.						
	59.44	1.08	1110		1.00							
	65.53	6.09	6.70	T2772	6.70		5	25	60	170	<1	<0.05
	68.53	3.00	3.10	T2773	2.90		8	48	230	60	<1	<0.05
	69.56	1.03	1.03	T2774	1.00		35	200	560	70	<1	<0.05
						69.56 m to 70.76 m Sheared, contorted black carbonaceous shale penetrated by a stockwork of carbonate veinlets. Minute trace of galena in the stockwork.						
	70.56	1.00	0.97	T1168	0.80		80	300	700	85	< 1	<0.05
	71.56	1.00	0.97	T1169	0.97	As above, bedding core angle = 10°.	42	520	620	95	"	0.05
	72.56	1.00	1.00	T1170	1.00	As above. Grey quartz becoming main component of veinlets.	140	810	3080	70	2	<0.05
	73.56	1.00	1.00	T1171	1.00	As above.	170	770	2280	65	2	"
	74.56	1.00	1.00	T1172	1.00	As above. More abundant galena (3%), trace chalco-pyrite.	370	1330	7100	70	3	0.05
	75.56	1.00	1.03	T1173	1.03	As above. Some galena in veinlets.	270	810	3860	55	2	<0.05

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 4 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH DRILLER COMPANY FINAL DEPTH

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	Whole core metres	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Au	Ag
BQ	75.56 to 76.56	1.00	1.03	T1174	1.03	As above. Bedding parallel to core axis.	170	740	2750	65	0.05	3
	~~77.56~~	~~1.00~~	~~1.03~~	T1175	~~1.03~~	~~As above.~~	90	580	1680	70	<0.05	1
	78.56	1.00	0.99	T1176	0.99	As above.	100	250	1300	75	"	<1
	79.56	1.00	0.99	T1177	0.90	As above.	140	150	420	70	"	"
	80.56	1.00	0.99	T1178	0.90	As above.	160	260	910	80	"	"
	81.56	1.00	1.03	T1179	1.03	As above.	75	220	870	80	"	1
	82.10	0.55	0.57	T1180	0.57	As above.	130	420	2100	75	0.1	3
	83.21	1.10	1.10	T2775	1.10	82.10 m to 82.70 m Sheared, crystal tuff sericitised, chloritised and cut by fine carbonate veinlets.	22	120	340	50	<0.05	<1
						86.46 m to 86.87 m Black carbonaceous mudstone, friable.						
	Petrography sample: Fractured, weakly altered porphyritic sodic rhyolite.			T420		82.10 m to 128.54 m Vitric-crystal tuff, with quartz feldspar phenocrysts up to 0.50 cm. Varying in colour from grey/green (highly chloritised) to milky white (quartz - rich) rock. Cut by irregular quartz (up to 0.20 m wide) and quartz carbonate veinlets.						
	~~84.43~~	~~1.22~~	~~0.95~~		~~0.30~~							
	86.26	1.83	1.50	T2776	0.35		2	20	410	42	<0.05	<1
	86.87	0.61	0.37		0.00							
	89.92	3.05	3.94	T2777	3.50		2	20	55	40	<0.05	<1
	92.96	3.04	2.73	T2778	2.73		10	8	120	48	<0.05	<1
	96.01	3.05	4.77	T2779	4.77		2	18	150	35	<0.05	<1
	99.06	3.03	3.15	T2780	3.75		2	<5	35	42	<0.05	<1
	102.10	3.04	1.45	T2781	1.45		2	8	25	35	<0.05	<1
	103.63	1.53	1.70	T2782	1.30		<2	<5	240	22	<0.05	<1
	105.16	1.53	1.03		1.03							
	108.56	3.40	3.14	T2783	3.14		2	12	240	30	<0.05	<1
	108.81	0.25	0.24		0.24							
	111.25	2.44	2.55	T2784	2.55		2	8	170	38	<0.05	<1

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 4 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH DRILLER COMPANY FINAL DEPTH

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	Whole core metres	DESCRIPTION	ASSAY RESULTS					
							Cu	Pb	Zn	Ba	Ag	Au
BQ	112.25 to											
	114.30	3.05	3.20	T2785	3.20		2	<5	120	35	<1	<0.05
	117.34	3.04	2.37	T2786	2.37		<2	8	210	35	<1	<0.05
	120.39	3.05	2.65	T2787	0.86		2	8	190	35	<1	<0.05
	123.44	3.20	3.85	T2788	3.40		2	5	190	50	<1	<0.05
	126.64	1.90	2.15	T2789	2.15		5	22	310	65	<1	<0.05
	128.54	1.90	2.10	T2790	2.00		2	8	200	45	<1	<0.05
	129.54	1.00	1.00	T1181	1.00	Light grey-green quartz-feldspar tuffaceous rock. Feldspar phemocrysts are pale green to white and 2-5 mm in size. Quartz phenocrysts range up to 5 mm in size. Irregular quartz and quartz-carbonate veins occur.	2	< 5	180	50	< 1	<0.05
	130.54	1.00	0.98	T1182	0.98	As above. Galena and sphalerite aggregates associated with quartz-carbonate veins.	10	25	120	60	"	"
	131.12	0.58	0.57	T1183	0.57	Fine grained chloritised olive green rock containing some black (carbonaceous ?) material cut by quartz veins. Trace of black material (galena ?) within quartz veins.	5	12	150	150	"	"
	131.86	0.74	0.73	T1184	0.73	Agglomerate (?) consisting of subangular fragments of chloritised tuffaceous material (containing rounded quartz phenocrysts) welded in a silicified black (carbonaceous ?) fine groundmass. The fragments appear to be aligned at a 17° core angle. Quartz-carbonate veins present.	8	65	170	160	"	"
	132.66	0.80	0.79	T1185	0.79	Fine light pink volcanic containing 1 cm quartz phenocrysts and penetrated by bands (up to 8 cm wide) of quartz carbonate (core angle = 35°). Trace of galena associated with the veins.	5	5	30	70	"	"

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 4 TYPE D.D.H. CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... DRILLER ..... COMPANY ..... FINAL DEPTH .....

N.W.P.S.

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	Whole core metres	DESCRIPTION	ASSAY RESULTS					
							Cu	Pb	Zn	Ba	Ag	Au
	132.66 to 133.44	0.78	0.78	T1186	0.78	Black carbonaceous mudstone (silicified, cut by quartz-carbonate veins) grading into an agglomerate (sub-angular chloritised volcanic fragments imbedded in a black carbonaceous groundmass).	25	230	1240	135	< 1	<0.05
	134.44	1.00	1.00	T1187	1.00	Chloritised chert or vitric-crystal tuff containing some black (carbonaceous ?) material. Quartz-carbonate veinlets present.	5	15	80	55	"	"
	135.44	1.00	1.00	T1188	1.00	As above.	5	12	170	40	"	"
						135.44 m to 149.05 m Dark grey-green crystal tuff with ill defined phenocrysts of quartz up to 0.50 cm and smaller feldspar phenocrysts. The rock is chloritised with wisps of black material (possibly carbonaceous) and cut by irregular quartz and quartz carbonate veins (up to 25 cm wide). Some aggregates of pyrite and galena generally associated with small hairline fractures.						
	135.64	0.20	0.27		0.27							
	138.68	3.04		T2791			2	<5	190	38	<1	<0.05
	141.73	3.05	3.15	T2792	3.15		2	8	65	85	<1	<0.05
	142.34	0.61	0.68		0.68							
	144.79	2.45	2.45	T2793	2.45		2	<5	40	50	<1	<0.05
	147.83	3.04	3.10	T2794	3.10		2	<5	35	50	<1	<0.05
	149.05	1.22	1.27	T2795	1.27		2	5	25	40	<1	<0.05
						END OF HOLE						

021

SUMMARY SHEET

E.L. 5/63 TASMANIA SOCK CREEK D.D.H. SK 4 CO*ORDS: 760N 1021E INCL: 45° AZIMUTH 090° MAGN.

COMMENCED: 20.2.75 COMPLETED: 28.2.75 DRILLED BY: LONGYEAR SURVEYED BY: EWAN REID

NQ CORE TO: 33.25 m BQ CORE TO: 149.05 m END OF HOLE: 149.05 m

1. LOG SUMMARY

ROCK TYPE		MINERALISATION STYLE	GRADE
0.00 m to 30.74 m	Altered sequence of black shale ? and volcanics.		
30.74 m to 58.36 m	Black silicified shale.	Aggregated galena in carbonate veins and fractures.	
58.36 m to 69.66 m	Lapilli tuff.		
69.66 m to 82.10 m	Sheared contorted black shale cut by a carbonate stockwork.	Galena and chalcopyrite in a carbonate stockwork.	
82.10 m to 128.54 m	Grey-green to white vitric-crystal tuff.		
128.54 m to 130.54 m	Light grey-green quartz-feldspar tuffaceous rock	Galena and sphalerite in quartz-carbonate veins.	
130.54 m to 131.12 m	Fine olive green rock.		
131.12 m to 131.86 m	Agglomerate.		
131.86 m to 132.66 m	Fine light pink quartz porphyry or vitric-crystal tuff.	Galena in quartz-carbonate veins.	Trace.
132.66 m to 133.44 m	Black silicified mudstone grading into agglomerate.		
133.44 m to 135.44 m	Chloritised chert or vitric-crystal tuff.		
135.44 m to 149.05 m	Dark grey-green vitric-crystal tuff.	Pyrite and galena aggregates in hairline fractures.	

END OF HOLE

2. INDICATED VALUES OF ORE

All values below 3100 ppm. excepting samples T1172 and T1173 which have Zn values of 7100 and 3860 respectively.

3. CORE RECOVERY

metres drilled	149.05
metres recovered	135.72
percentage recovery	91.05

4. WATER TABLE

not recorded.

5. CASING LEFT IN HOLE

nil.

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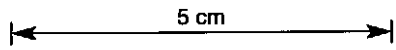
022

143023



COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK4 SECTION

COPPER HISTOGRAMS

DRAWN	COMPILED	SCALE	
J.H. 11/75		H=1:1000, V=1:2000ppm	TAS/2/840

023

143024

5 cm

CONSTAF [illegible] LICENT [illegible]

SOCK CREEK PROSPECT

DDH SK4 SECTION

ZINC HISTOGRAMS

TAS/2/842

024

143025

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

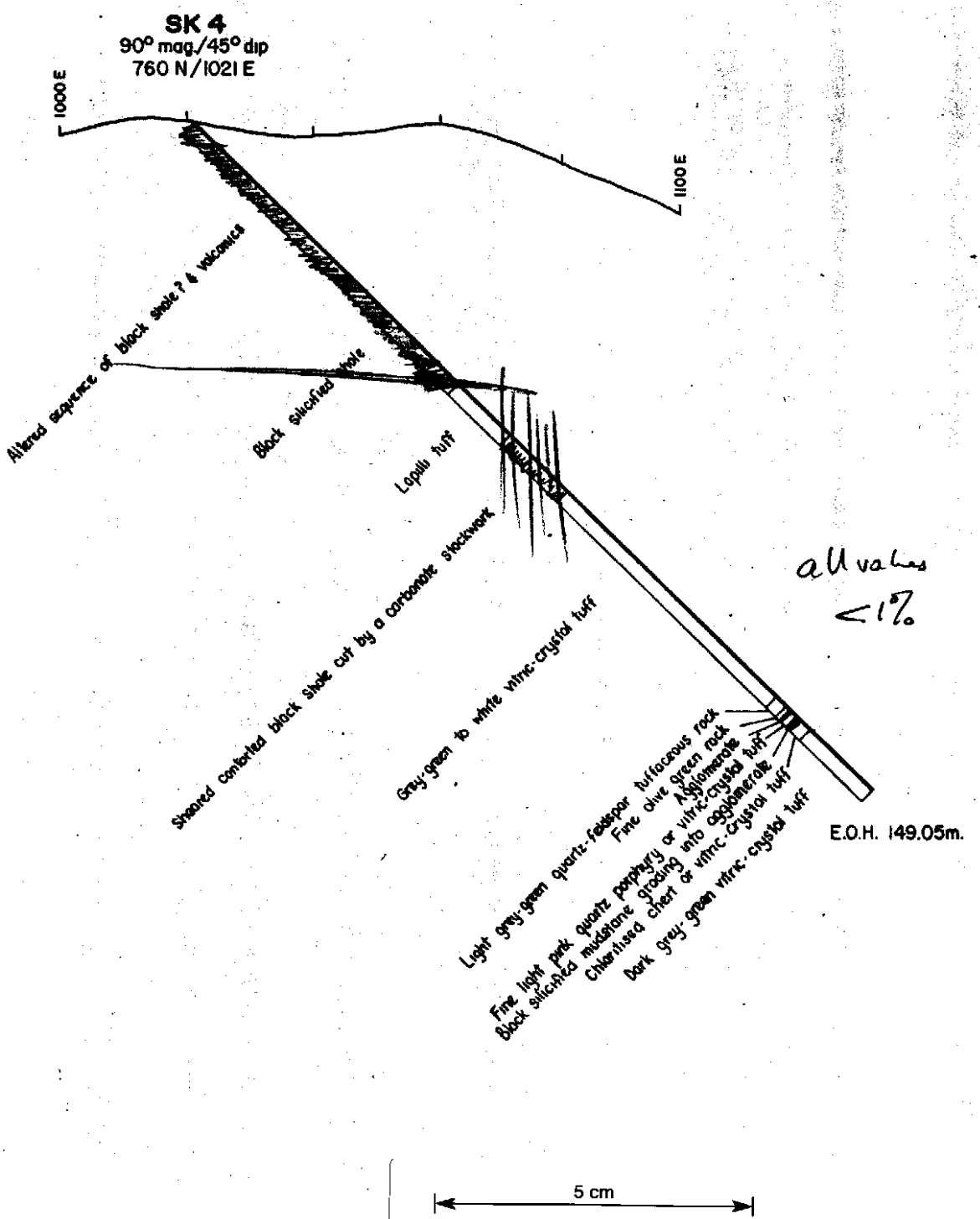
DD.H. SK4 SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		H=1:1000 V=1:2000ppm	TAS/2/841

025

143026



1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK 4 - SECTION

DRAWN	COMPILED	SCALE	
7-75	RNS	1 : 1000	TAS/2/823

026

143027

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG - SK 3

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

SOCK CREEK, SK- 55/3 1020.5E 0840N

COMMODITY/IES:
Zn Pb Cu

TEXT PAGES NO: 7

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E.REID

DATE: October 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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APPENDIX 1.

Page 1

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK3 TYPE D.D.H. CO-ORDINATES 1020.5E 0840N INCLINATION -45°E DIRECTION

DATE START 12.2.75 DATE FINISH 19.2.75 LOGGED BY E.REID DRILL CO. LONGYEAR FINAL DEPTH 125.27 m

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED ~~INDEX METRES~~ sample depth	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au
						0.00 m to 91.2 m Pyritic graphitic shales. Weathered (viz: bleaching and limonite staining emanating from joint shear and fracture surfaces) to a depth of 26 m. The rock texture is finely laminated with variations in colour (and grainsize defining this compositional banding as bedding. Grainsizes vary from siltsized to claysized with occasional cherty zones (e.g. 6-7 m). Core angles vary rapidly with depth due to small scale folding and shearing. Limonitic (after pyrite) quartz (and barytes?) hairline veinlets and fracture plane surface paintings. Minor intercalations of acid to intermediate pyroclastics (usually xenotuffs) exist. Sulphide mineralization occurs possibly throughout the shales in a dispersed state. Pyrite and galena are occaisonally visible as tiny crystalline patches or millimeter silica filmed ~~vugs~~. Shear crack fillings towards the base of the shale contain quartz and sphalerite.						
0.00	0.72	1	0.72		T1001	0.00 m to 6.00 m Bedding core angles = 10° to 80° with shear plane	30	220	60	40	<1	<0.05
	2.44	2	0.72		T1002	core angle 35° (axial plane cleavage?)	65	350	120	55	<1	<0.05
	3.96	3	0.99		T1003		42	330	100	55	<1	<0.05
		4	0.89		T1004		22	420	75	70	<1	<0.05
		5	0.89		T1005		18	170	50	60	<1	<0.05
	6.40	6	0.89		T1006	6.00 m to 8.30 m Finely silica stockworked shale containing intercalations	12	115	35	35	<1	<0.05
	7.32	7	0.84		T1007	of olive green chlorite schist. This latter component contains soft pale	35	45	30	20	<1	<0.05
	8.84	8	0.75		T1008	clayey rhombs of millimeter dimensions probably representing feldspar	15	45	50	65	<1	<0.05
		9	0.79		T1009	phenocrysts in an original tuff.	12	100	40	40	<1	<0.05
	10.36	10	1.16		T1010	8.30 m to 10.36 m Shales, bedding core angles 20-90°, intercalations	22	190	95	80	<1	<0.05
						of chlorite schist (e.g. 9.00 m)						
	11.88	11	1.10		T1011	10.36 m to 17.8 m Shales, bedding core angles 0-15°, shear core angles	70	190	130	60	<1	<0.05
		12	1.05		T1012	40-90°. Shear pattern very marked.	75	180	100	60	<1	<0.05
	13.41	13	1.01		T1013		65	220	105	55	<1	<0.05
		14	1		T1014		70	240	120	50	<1	<0.05
	15.84	15	0.76		T1015		70	270	115	45	<1	<0.05
		16	0.82		T1016		80	280	310	35	<1	<0.05
	17.07	17	1.14		T1017	17.8 m to 20.9 m Silica stockworked deformed shale with chlorite schist	48	420	120	40	1	<0.05
	18.90	18	1.15		T1018	keels.	100	540	150	60	3	<0.05
	19.81	19	1.07		T1019		45	300	120	45	2	<0.05

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APPENDIX 1.
Page 2

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK3 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	DRILLED METRES sample depth	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au
19.81		20	0.33		T1020		22	110	75	15	<1	<0.05
	21.95	21	1.06		T1021	20.9 m to 23.7 m Distorted shale pervaded by clayey (chloritic?)	25	100	95	50	<1	<0.05
		22	1.05		T1022	veinlets probably after tuffaceous intercalations. e.g. at 21.8, 22.3,	28	240	115	45	<1	<0.05
	23.16	23	0.93		T1023	22.4 m. Bedding core angles up to 20°. Clayey material seems to	20	250	150	75	<1	<0.05
	24.08	24	1.04		T1024	have been pushed along shear planes which have core angles also of up to	30	330	220	50	<1	<0.05
	25.60	25	1.05		T1025	20° with the intercore angle up to 40°.	22	300	200	60	<1	<0.05
	26.82	26	0.96		T1026	23.7 m to 26 m Partially weathered shale. Bedding core angles about	32	590	250	65	<1	<0.05
	27.43	27	0.88		T1027	50° with prominant shear core angle of about 5°	70	210	280	90	<1	<0.05
	28.34	28	1.12		T1028	26 m to 62.3 m Unweathered pyritic graphitic shale folded (core angles	30	75	320	70	<1	<0.05
		29	0.89		T1029	0-90°) $\lambda \geq 4$ cm. Sheared (core angles about 20°) with shears contain-	45	140	460	60	1	<0.05
	30.17	30	1.10		T1030	ing clayey grey/green material. Small 1 cm band of fine pyritic lithic	65	210	600	70	1	<0.05
	31.70	31	1.06		T1031	sandstone at 30.92 m. Pyritic grey/green quartz crystal containing	90	320	800	55	2	<0.05
	32.61	32	1.02		T1032	clayey material (after quartz / crystal tuff?) exists at 34 m. Elsewhere	75	180	310	75	<1	<0.05
	33.53	33	0.90		T1033	pyrite occurs as shearplane paintings (e.g. 29.7 m). Millimetre rhombs	95	140	250	70	<1	<0.05
		34	0.98		T1034	of clayey material in a chlorite schist (meta feldspar crystal tuff?) exist	120	95	600	60	<1	<0.05
	35.97	35	0.91		T1035	at 45.4 m, 46 m and 46.6 m.	260	310	2900	50	3	<0.05
	36.58	36	0.91		T1036	From 61 m onwards the shale is (quartz, calcite) stockworked. Minor / Chalco-	120	240	1300	65	2	<0.05
	37.49	37	1.01		T1037	pyrite and sphalerite occur in these veinlets.	70	190	600	55	1	<0.05
		38	1.02		T1038		80	110	500	60	1	<0.05
		39	1.02		T1039		75	400	900	55	3	0.05
		40	1.02		T1040		100	240	900	50	3	0.05
	41.26	41	1.02		T1041		130	270	2000	65	3	<0.05
		42	0.98		T1042		50	100	1500	60	<1	<0.05
		43	0.95		T1043		2	10	800	50	<1	<0.05
	44.19	44	0.93		T1044		28	50	700	50	<1	<0.05
		45	0.99		T1045		35	150	1700	40	<1	<0.05
		46	1.01		T1046		38	100	1260	80	<1	<0.05
	47.24	47	1.01		T1047		60	380	2200	30	1	<0.05
		48	0.99		T1048		48	490	1620	35	2	<0.05
		49	0.99		T1049		100	440	1300	50	2	<0.05
	50.29	50	0.99		T1050		75	440	1100	50	1	<0.05
		51	1.26		T1051		90	640	2100	55	3	<0.05
		52	1.37		T1052		80	350	1350	60	1	<0.05

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APPENDIX 1.
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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L..5/63 SOCK CREEK

BOREHOLE No. SK3 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED ~~CORE~~ METRES sample depth	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au
	53.34	53	1.37		T1053		65	150	400	65	<1	<0.05
		54	1.17		T1054		65	130	300	70	<1	<0.05
	55.47	55	1.07		T1055		70	290	1300	65	3	<0.05
		56	1.17		T1056		110	730	2700	75	3	<0.05
		57	1.26		T1057		85	190	750	70	<1	<0.05
	58.52	58	1.26		T1058		65	80	240	60	<1	<0.05
		59	1.13		T1059		65	150	700	65	<1	<0.05
	60.96	60	0.98		T1060		70	340	1100	70	1	<0.05
		61	0.98		T1061		85	440	1300	75	1	<0.05
		62	0.95		T1062	62.3 m to 68.58 m Quartz, feldspar porphyritic dacite/shale breccia	35	210	300	110	<1	<0.05
		63	0.95		T1063	containing keels of chlorite schist (up to 2 cm size - possibly after	18	160	700	95	<1	<0.05
		64	0.95		T1064	tuffs?) at 62.3, 62.7, 63.7, 64.5, 65.6 to 66.9, 67.8 and 68.2 m.	20	210	1000	60	<1	<0.05
	65.53	65	0.95		T1065	Breccia fragments are rounded rather than angular, suggestive of an	15	110	750	55	<1	<0.05
		66	0.91	TS437	T1066	agglomerate. The rounded phenocrysts of feldspar are up to 1 cm across.	8	40	370	245	<1	<0.05
		67	0.86		T1067	The core is pervaded by a (quartz/calcite) stockwork. Bedding core	10	25	310	115	<1	<0.05
						angles approx. 60°, shear core angles approx 60° and 0°.						
	68.58	68	0.86	TS436	T1068	68.58 m to 91.2 m Graphitic shale containing pyrite and galena with	15	55	650	100	<1	<0.05
		69	0.91		T1069	pervading (quartz,calcite) stockwork. Bedding core angle approx 60°	48	60	230	135	<1	<0.05
		70	0.99		T1070	with sub parallel shear planes. Other shear core angles are approx 0°	45	30	270	100	<1	<0.05
	71.63	71	0.91		T1071	like above (tension gashes?). Some sub parallel veins (e.g. 70.9 m, 78.6	55	65	160	120	<1	<0.05
		72	1.00		T1072	m) contain shale/chlorite schist angular breccias set in a calcite matrix.	60	35	70	105	<1	<0.05
		73	1.02		T1073	Sulphides occur within these veins e.g. 3 cm vein at 83.4 m containing	65	40	120	100	1	<0.05
	74.68	74	1.02		T1074	sphalerite and crystal aggregates. From 89 m sphalerite is a major	70	40	90	150	<1	0.05
		75	1.01		T1075	constituent of the veins. Minor galena exists. From 88 m bedding	70	38	120	150	<1	0.05
		76	0.98		T1076	becomes highly distorted.	70	70	100	150	<1	<0.05
	77.72	77	0.98		T1077		75	70	160	150	<1	0.05
		78	0.99		T1078		85	80	640	170	1	0.05
		79	1.00		T1079		65	90	180	160	<1	0.05
	80.77	80	1.00		T1080		75	260	330	150	1	<0.05
		81	1.00		T1081		75	260	230	160	3	0.05
		82	1.00		T1082		80	610	1400	160	3	0.1
	83.82	83	1.00		T1083		48	220	1080	140	<1	0.05

030

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APPENDIX 1.
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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 3 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	~~DRILLED~~ METRES sample depth	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION		ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au	
		84	1.00		T1084			75	400	2950	110	1	<0.05	
		85	1.00		T1085			90	330	1550	150	1	0.1	
	86.87	86	1.00		T1086			65	840	3100	140	1	0.05	
		87	1.01		T1087			100	370	1480	110	1	<0.05	
		88	1.02		T1088			120	920	4420	100	4	0.05	89
	89.92	89	1.02		T1089			120	770	6800	85	2	0.1	90
		90	1.01		T1090			170	3260	1.15%	70	3	0.05	28
		91.2	1.16		T1091			600	9600	5.3%	80	4	<0.05	85
						91.2 m to 125.27 m Coarse grained (up to 1 cm) quartz feldspar porphyritic dacite. The rock contains local quartz - Zn Pb Cu sulphide stockworking (e.g. 91.2 to 96 m). Soft chloritic keels exist which may be meta intrusive basic rock hybrids, or meta tuffs.								
	92.96	92	0.78		T1092	91.2 m to 96.0 m Fine grained greenish/yellow quartzose rock sheared		130	690	8300	85	<1	<0.05	92
		93	0.97		T1093	and brecciated (mylonitized?). The breccia matrix is a calcite free		1300	1660	8.0%	90	1	<0.05	93
		94	1.00		T1094	(quartz, sphalerite) association, containing minor galena and chalcopyrite.		880	1550	2.4%	110	1	<0.05	94
		95	1.00		T1095	The rock volume percentage of sphalerite is about 5%.		310	1570	4.8%	48	1	<0.05	97
	96.01	96	1.00		T1096	96.0 m to 99.7 m Pink sheared porphyritic dacite containing minor		520	910	9.5%	25	2	<0.05	99
		97	1.01		T1097	sphalerite in shears.		140	290	2.2%	48	<1	<0.05	99
		98	1.01		T1098			22	20	220	130	<1	<0.05	
	99.06	99	1.01		T1099	99.7 m to 125.27 m Porphyritic dacite containing crosscutting veins		28	15	50	140	<1	<0.05	
		100	1.01		T1100	(up to 3 cm thick) of quartz chlorite rock possibly related to a xenolith		48	50	130	110	<1	<0.05	
		101	1.00	TS438	T1101	(?) of dark metabasic (?) rock. This section is pervaded by (quartz,		8	550	4150	65	<1	<0.05	
	102.11	102	1.00		T1102	calcite) veins containing minor galena and sphalerite.		8	38	360	310	<1	<0.05	
		103	0.99		T1103	Chlorite schist (meta tuff?) keels exist within the porphyritic dacite at		2	12	95	130	<1	<0.05	
		104	0.99		T1104	116.8 m to 118 m, 119.2 m, 119.9 m, 120.75 m, 121.4 to 121.6 m and 122 m.		2	18	65	140	<1	<0.05	
	105.16	105	0.99		T1105			5	25	620	210	<1	<0.05	
		106	1.00		T1106	125.7 m END OF HOLE		48	320	1.25%	170	1	<0.05	98
		107	1.00		T1107			28	440	880	180	<1	<0.05	
	108.20	108	1.00		T1108			32	640	710	160	<1	<0.05	
		109	0.99		T1109			8	220	80	160	<1	<0.05	
		110	0.99		T1110			30	220	55	150	<1	<0.05	
	111.25	111	0.99		T1111			22	120	28	230	<1	<0.05	
		112	0.99		T1112			10	50	40	200	<1	<0.05	

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

DRILL HOLE No. SK3 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	METRES sample depth	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Ag	Au
		113	0.99		T1113	See lithology on previous page.	28	60	50	150	<1	<0.05
	114.30	114	0.99		T1114		10	28	28	170	<1	<0.05
		115	0.97		T1115		32	130	650	140	<1	<0.05
	116.74	116	0.96		T1116		10	260	130	220	<1	<0.05
		117	0.98	TS439	T1117		18	100	65	160	<1	<0.05
		118	1.02		T1118		25	70	65	270	<1	<0.05
	119.78	119	1.02		T1119		48	60	25	140	<1	<0.05
		120	1.02		T1120		48	25	75	1300	<1	<0.05
		121	1.02		T1121		28	55	60	230	<1	<0.05
	122.22	122	1.02		T1122		2	25	25	240	<1	<0.05
		123	1.02		T1123		8	160	490	240	<1	<0.05
		124	1.02		T1124		2	65	70	280	<1	<0.05
	125.27	125.27	1.30		T1125		5	15	45	230	<1	<0.05
						END OF HOLE						

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

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PROJECT	E.L. 5/63 SOCK CREEK	AREA	TASMANIA	DRILLHOLE TYPE	D.D.H.
CO-ORDS	0840N	DEC[LN]	45°	AZIMUTH 090°	RL
				DH No.	SK 3
DATE COMMENCED	12.2.75	DATE COMPLETED	19.2.75	DRILLED BY	LONGYEAR
DRILL RIG					
Non Coring to:		HQ Core to:		NQ Core to: 42.67 m	BQ Core to: 125.27 m
EOH	125.27 m				

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0		45°	090°				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0.00 m to 91.2 m	0 - 61		
Pyritic Graphitic Shales. (minor quartz feldspar porphyritic	Finely dispersed microcrystalline pyrite	~1% pyrite	
dacite zone 62.3 m to 68.58 m)	with minor galena, sphalerite etc.	≪1% galena, sphalerite and	
		chalcopyrite	60 m
61m to 69 m	Tiny veinlets, shear paintings containing	<1% galena,	
	sphalerite, chalcopyrite, pyrite, galena	Sp, Cpy.	1 m
69 m to 83.4 m	(Quartz Calcite) stockwork containing	≪1% galena, Sp.,	
	pyrite, galena, sphalerite.	chalcopyrite.	10 m
83.4 m to 89 m	As above.	~1% Gn, Sp, Cpy.	5 m
91.2 m to 125.27 m	89 m to 96 m		
Coarse grained quartz feldspar porphyritic dacite.	(Quartz Calcite Sphalerite) stockworked and breccia matrix	5% Sphalerite ~1% Galena, Cpy.	5 m
	96 m to 100 m		
	(Quartz Calcite) stockwork containing	≪ 1% Sphalerite	
	sphalerite and galema.	and minor galena	3 m
	100 m to 125.27 m		
	Trace galena and sphalerite in fine	≪1% Sphalerite,	
	(quartz Calcite) stockwork (decreasing	Galena etc.	
	with depth).		18 m
	END OF HOLE		

N.W.P.S.

033

143034

E.L. 5/63 SOCK CREEK D.D.H. SK 3

SUMMARY (contin.)

1. INDICATED VALUES OF ORE

1% Cut off

89.0 m - 97.0 m	4.98% Zn;	0.27% Pb;	0.05% Cu;	x 8.0 m	D.T.
105.0 m - 106.0 m	1.25% Zn;	0.03% Pb;	<0.01% Cu;	x 1.0 m	D.T.

0.5% Cut off

88.0 m - 97.0 m	4.50% Zn;	0.25% Pb;	0.05% Cu;	x 9.0 m	D.T.
105.0 m - 106.0 m	1.25% Zn;	0.03% Pb;	<0.01% Cu;	x 1.0 m	D.T.

2. CORE RECOVERY

metres drilled	125.27
metres recovered	124.40
percentage recovery	99.3%

3. WATER TABLE

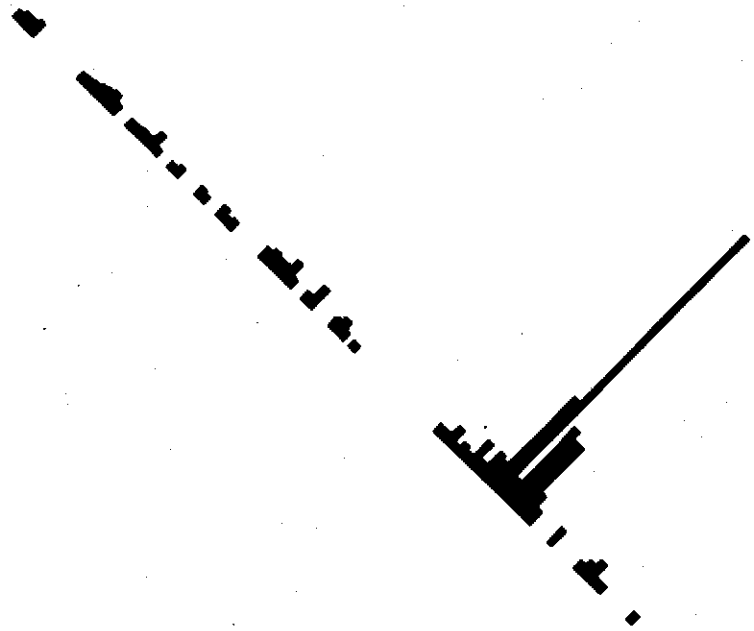
not recorded.

4. CASING LEFT IN HOLE

nothing left in hole.

034

143035



5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

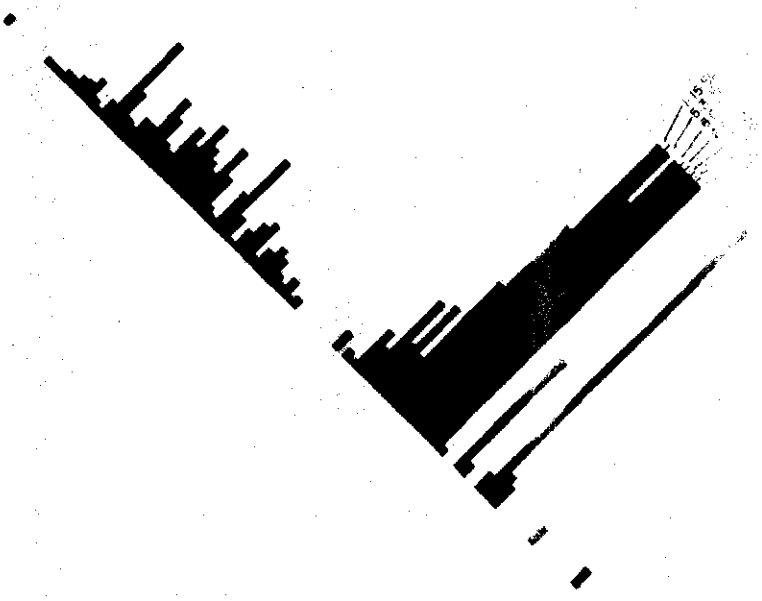
D.D.H. SK3 - SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		H=1:1000, V=1:2000ppm	TAS/2/838

035

143036



5 cm

COMSTAFF PROPR TARY

SOCK CREEK PROSP

D.D.H. SK3- ECTION

ZINC HISTOGRAMS

DRAWN COMPILED

036

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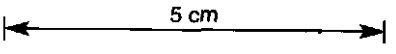


COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

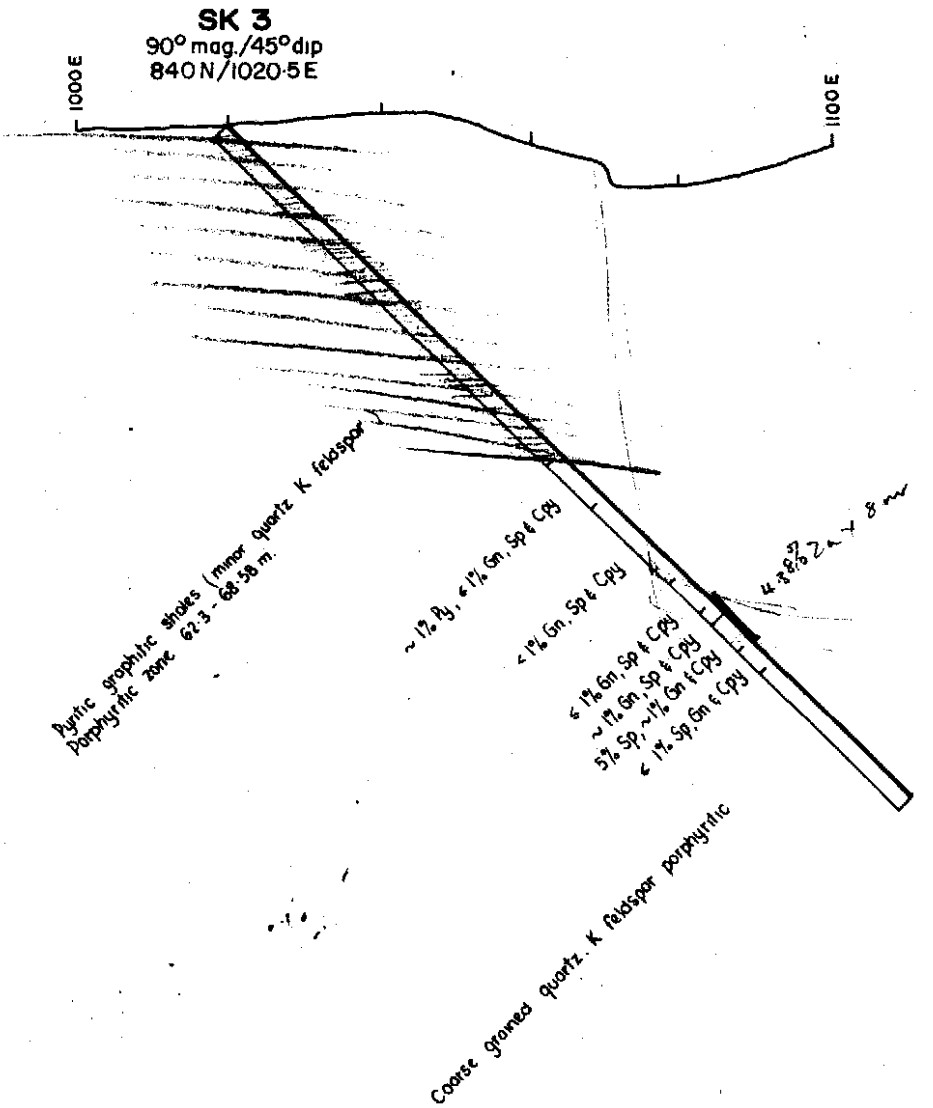
D.D.H. SK3- SECTION

COPPER HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		H=1:1000,V=1:2000ppm	TAS/2/837

037

143038



5 cm

1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK 3 - SECTION

DRAWN 7-75	COMPILED RNS	SCALE 1 : 1000	TAS/2/824

038

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COMSTAFF PROPRIETARY LIMITED

DIAMOND DRILL HOLE SK.2.

E L. 5/63 SOCK CREEK

NOVEMBER - 1974

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

039

143040

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 090° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Au	Ag	As
					8.00 m to 80.17 m Carbonaceous shale which frequently alternates with bands of light grey shale. The shale is heavily limonitised along fractures down to 26 m depth. Bedding core angles from 0.0 m to 46.5 m are as follows:- 57° at 5.20 m, 35° at 6.80 m, 90° at 9 m, 33° at 26.9 m, 45° at 29.0 m, 60° at 31.0 m, 60° at 32.0m, 37° at 33.0 m, 42° at 36.0 m, 52° at 40.0 m, 45° at 43.0 m, 50° 45.5 m. The rock is frequently sheared and fissile parallel or sharply acute to the core axis. Shear displacements are generally 1 cm. Honeycombed crusts of silica coat irregular cavities and fractures in the shale produced by shearing and tension; sporadic traces of galena, brown sphalerite and minor chalcopyrite occur in these cavities (e.g. at 26.9 m, 27.7 m). The first visible mineralisation occurs at 26.9 m. Rare blebs (up to 1 cm accross) of brown sphalerite and galena occur sporadically in carbonate veins and infillings from 26.9 m to 80.17 m. Below 50.0 m the shale is frequently penetrated by carbonate veins, generally only several millimeters wide, along shears parallel or at less than 30° to the core axis. In places the shale is slightly brecciated by shearing with carbonate infilling the breccia spaces. Below 50.0 m the shale is laminated much more finely. Bedding core angles below 46.5 m are as follows:- 25° to 45° at 50 m, 57° at 53.0 m, 30° at 56.0 m, 70° to 80° at 65.20 m, 32° at 70.5 m, 41° at 73.5 m, 30° at 77.5 m. Below 56.0 m the bedding is difficult to distinguish and in places the rock would be more correctly termed a carbonaceous mudstone. Core angle of the lower contact is 40°.							
NQ	0.00 to 1.00	1.00	0.17	T 1	0.00 m to 4.00 m 0.0 m whole core, remainder broken.	110	860	100	75		1	95
"	2.00	"	0.18	T 2	4.00 m to 5.20 m 1.00 m " " " "	70	440	85	85		"	48
"	3.00	"	0.17	T 3	5.20 m to 6.20 m 0.53 m " " " "	75	720	90	85		"	50
"	4.00	"	0.18	T 4	6.20 m to 7.40 m 0.87 m " " " "	45	720	85	85		"	26

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143041

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 090° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Au	Ag	As
NQ	5.00	1.00	1.09	T 5	7.40 m to 8.00 m 0.33 m whole core, remainder broken	48	400	100	85		<1	46
"	6.00	"	0.92	T 6	8.00 m to 9.75 m 1.22 m " " " "	140	780	1920	100		2	85
"	7.00	"	0.99	T 7	9.75 m to 10.00 m 0.17 m " " " "	100	940	1880	85		1	70
"	8.00	"	0.99	T 8	10.00 m to 11.25 m 0.00 m " " " "	38	560	500	85		<1	18
"	9.00	"	0.94	T 9	11.25 m to 12.50 m 0.55 m " " " "	40	580	150	85		"	38
"	10.00	"	0.93	T10	12.50 m to 13.70 m 0.00 m " " " "	28	500	110	80		"	22
"	11.00	"	0.26	T11	13.70 m to 15.20 m 0.71 m " " " "	25	200	100	55		"	14
"	12.00	"	0.57	T12	15.20 m to 16.15 m 0.33 m " " " "	20	300	95	70		"	12
"	13.00	"	0.45	T13		30	320	190	85		"	30
"	14.00	"	0.40	T14		25	300	140	85		"	24
"	15.00	"	0.81	T15		25	340	190	100		"	28
"	16.00	"	0.77	T16		22	280	180	80		"	26
"	17.00	"	0.81	T17	16.15 m to 17.05 m 0.45 m whole core, remainder broken	50	180	260	85		"	34
"	18.00	"	0.99	T18	17.05 m to 18.60 m 0.90 m " " " "	75	125	310	90		"	12
"	19.00	"	0.90	T19	18.60 m to 19.80 m 0.18 m " " " "	80	95	310	95		"	28
"	20.00	"	0.74	T20	" " " " " " "	75	100	250	95		"	16
"	21.00	"	0.71	T21	19.80 m to 21.00 m 0.46 m " " " "	80	110	470	100		"	22
"	22.00	"	0.83	T22	21.00 m to 22.85 m 0.45 m " " " "	120	255	310	85		"	12
"	23.00	"	0.86	T23	" " " " " "	42	310	250	80		"	20
"	24.00	"	1.00	T24	22.85 m to 24.35 m 0.90 m " " " "	22	110	170	75		"	2
"	25.00	"	0.66	T25	24.35 m to 25.90 m 0.30 m " " " "	25	160	200	80		"	6
"	26.00	"	0.51	T26	25.90 m to 26.80 m 0.13 m " " " "	20	180	400	90		"	10
"	27.00	"	0.81	T27		140	700	5400	90		2	80
"	28/00	"	1.18	T28	26.80 m to 28.10 m 1.03 m " " " "	110	1900	4300	55		2	100
"	29.00	"	1.17	T29	28.10 m to 28.75 m 0.23 m " " " "	85	765	3950	95		<1	55
"	30.00	"	1.15	T30	28.75 m to 29.55 m 0.98 m " " " "	80	540	1250	110		1	44
"	31.00	"	0.94	T31	29.55 m to 30.40 m 0.74 m " " " "	35	250	820	110		<1	22
"	32.00	"	1.01	T32	30.40 m to 31.10 m 0.18 m " " " "	70	100	330	95		"	16
"	33.00	"	1.02	T33	31.10 m to 31.70 m 0.47 m " " " "	45	55	375	100		"	18
"	34.00	"	1.04	T34	31.70 m to 32.30 m 0.36 m " " " "	70	460	640	75		4	95
"	35.00	"	0.87	T35	32.30 m to 32.70 m 0.21 m " " " "	95	1150	2950	55		5	120
"	36.00	"	1.05	T36	32.70 m to 34.30 m 0.70 m " " " "	80	730	2680	110		2	65
"	37.00	"	0.65	T37	34.30 m to 35.00 m 0.47 m " " " "	65	2800	410	140		<1	24
"	38.00	"	1.03	T38	35.00 m to 35.65 m 0.22 m " " " "	65	280	580	120		1	38

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 090° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Au	Ag	As
NQ	39.00	1.00	1.10	T39	35.65 m to 36.25 m 0.17 m whole core, remainder broken.	40	150	680	100		< 1	20
"	40.00	"	0.81	T40	36.25 m to 37.15 m 0.17 m " " " "	120	640	5500	65		6	130
"	41.00	"	0.58	T41	37.15 m to 37.75 m 0.30 m " " " "	450	580	9600	75		5	130
"	42.00	"	0.82	T42	37.75 m to 38.35 m 0.15 m " " " "	120	570	6000	95		2	90
"	43.00	"	0.93	T43	38.35 m to 38.95 m 0.50 m " " " "	120	660	5600	90		3	85
"	44.00	"	0.97	T44	38.95 m to 39.55 m 0.40 m " " " "	75	550	2600	100		< 1	55
"	45.00	"	1.00	T45	39.55 m to 40.80 m 0.26 m " " " "	65	440	1520	120		"	28
"	46.00	"	1.05	T46	40.80 m to 41.70 m 0.00 m " " " "	90	1100	2880	100		3	100
"	47.00	"	1.06	T47	41.70 m to 42.65 m 0.27 m " " " "	110	880	2000	100		4	107
"	48.00	"	1.06	T48	42.65 m to 43.20 m 0.61 m " " " "	85	680	1280	120		1	70
"	49.00	"	0.91	T49	43.20 m to 44.45 m 1.09 m " " " "	50	600	1320	120		< 1	34
"	50.00	"	0.94	T50	44.45 m to 45.35 m 1.00 m " " " "	60	230	400	120		"	24
"	51.00	"	0.97	T51	45.35 m to 46.50 m 0.80 m " " " "	95	950	3850	110		4	95
NQ/BQ	52.00	"	1.00	T52	46.50 to 47.85 m 1.12 m " " " "	95	1150	3880	70		5	120
BQ	53.00	"	1.06	T53	47.85 m to 48.80 m 0.56 m " " " "	85	1150	1950	120		3	80
"	54.00	"	0.99	T54	48.80 m to 49.50 m 0.32 m " " " "	85	1450	3040	80		6	140
"	55.00	"	0.99	T55	49.50 m to 51.60 m 0.84 m " " " "	85	1400	3880	75		5	130
"	56.00	"	0.99	T56	51.60 m to 53.05 m 1.58 m " " " "	50	3450	2900	120		1	45
"	57.00	"	1.01	T57	53.05 m to 56.10 m 3.04 m " " " "	85	750	1060	110		4	95
"	58.00	"	1.02	T58	56.10 m to 59.15 m 3.09 m " " " "	140	1100	5000	90		4	115
"	59.00	"	1.02	T59		75	1150	4540	120		2	90
"	60.00	"	0.99	T60		75	860	2650	130		1	75
"	61.00	"	0.98	T61	59.15 m to 62.20 m 3.05 m " " " "	95	1400	4500	140		2	90
"	62.00	"	0.98	T62		90	760	3420	130		1	70
"	63.00	"	0.94	T63		100	960	3600	100		3	105
"	64.00	"	0.92	T64	62.20 m to 64.00 m 0.93 m " " " "	70	440	1950	140		<1	35
"	65.00	"	1.10	T65	64.00 m to 65.25 m 1.24 m " " " "	35	320	1240	120		"	50
"	66.00	"	1.00	T66		140	1450	4340	100		4	100
"	67.00	"	0.96	T67		80	1100	3500	130		1	70
"	68.00	"	0.96	T68	65.25 m to 68.30 m 2.77 m " " " "	220	720	6200	110		4	120
"	69.00	"	0.99	T69		130	980	3820	120		2	100
"	70.00	"	1.00	T70	68.30 m to 70.05 m 1.35 m " " " "	25	240	880	120		< 1	50
"	71.00	"	1.00	T71	70.05 m to 71.35 m 1.32 m " " " "	25	420	2100	130		"	50
"	72.00	"	0.99	T72		140	980	6800	90		2	100

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Au	Ag	As
	72.00 to											
BQ	73.00	1.00	0.99	T73	71.35 m to 74.40 m 3.06 m whole core, remainder broken.	140	1250	7200	100		2	110
"	74.00	"	0.99	T74		120	1250	4720	100		3	90
"	75.00	"	0.97	T75	74.40 m to 75.30 m 0.31 m " " " "	85	1400	5200	100		3	85
"	76.00	"	0.96	T76		45	680	2500	160		< 1	50
"	77.00	"	0.97	T77	75.30 m to 77.45 m 1.70 m " " " "	110	280	900	160		"	70
"	78.00	"	0.98	T78		110	1500	5400	120		2	120
"	79.00	"	0.98	T79		140	2650	8000	90		2	120
"	80.00	"	0.98	T80	77.45 m to 80.50 m 2.88 m " " " "	190	1350	5200	140		2	65
	80.4	Petrography sample TA 982			80.17 m to 80.86 m Medium grained brown haematised crystal tuff (?) or lava containing numerous angular pink-brown crystals (unreactive to staining for potash) and quartz crystals. Vaguely discernable fragments (?) up to 2 cm across are included in the rock. Several quartz-carbonate veinlets with acute core angles are present.							
					80.86 m to 81.41 m Breccia of pink, grey or white rhyolitic (?) fragments (0.5 cm to 2.0 cm) and 6 mm quartz crystals. This is possibly a coarse pyroclastic. The matrix is indurated, pale pink in colour and rich in silica. Minute traces of sphalerite occur in sporadic irregular quartz-carbonate veinlets. The upper contact is a shear with 25° core angle.							
					81.41 m to 81.59 m A band of black carbonaceous mudstone, the upper and lower contacts of which are irregular and inclined to the core axis at 40°. The mudstone is laced by a stockwork of carbonate veinlets and infillings containing traces of galena, sphalerite and chalcopyrite.							
					81.59 m to 82.94 m Breccia (agglomerate ?) of angular fragments of pink quartz porphyry (up to 6 cm across) in a fine pale pink groundmass containing quartz crystals. The quartz crystals in both the fragments and ground mass are white, rounded and generally 6 mm across.							

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.S.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Au	Ag	Sn
					82.94 m to 84.30 m Black, vaguely laminated shale bedded at 50° to the core axis. Between 83.55 m and 83.94 m the shale and a shear emplaced porphry of quartz crystals and light green altered feldspars (?) are contorted; the shale is brecciated and carbonate has infilled breccia cavities. A trace of brown sphalerite occurs in a pod of quartz-carbonate in sample T87. Irregular quartz-carbonate veins cut the shale at random. The upper shale contact is irregular and the lower contact coincides with a 3 mm wide carbonate vein (core angle = 75°)							
					84.30 m to 85.70 m Same as for 81.59 m to 82.94 m with angular fragments of pink quartz porphry ranging in size from 0.5 cm to 9 cm across. The lower contact is a shear with 20° core angle.							
BQ	80.17	0.17	0.17	T81		290	3450	5300	80		2	110
"	80.86	0.36	0.37	T82		10	90	520	140		< 1	5
"	81.41	0.55	0.57	T83	80.50 m to 83.55 m 3.15 m whole core remainder broken	8	150	500	120		"	2
"	81.59	0.18	0.19	T84		75	1750	6300	140		1	45
"	82.59	1.00	1.03	T85		5	110	540	110		< 1	2
"	82.94	0.35	0.37	T86		30	180	3080	110		1	55
"	83.94	1.00	1.02	T87	83.55 m to 86.60 m 3.06 m " " " "	25	300	2120	75		< 1	27
"	84.30	0.36	0.36	T88		12	400	540	65	< 0.05	"	24
"	85.30	1.00	1.00	T89		5	50	370	210	"	"	< 2
"	85.70	0.40	0.40	T90		5	1150	280	120	"	"	2
"	85.94	0.24	0.24	T91	86.60 m to 89.65 m 3.01 m whole core, remainder broken	2	4150	180	160	"	"	2
"	86.94	1.00	1.00	T92		5	75	2750	170	"	< 1	< 2
"	87.24	0.30	0.30	T93		28	65	4240	120	"	"	"
"	88.03	0.79	0.78	T94		25	195	1.4%	130	"	"	3
"	89.03	1.00	0.99	T95		10	145	820	210	"	"	15
"	89.65	0.62	0.61	T96	89.65 m to 92.70 m 3.05 m whole core, remainder broken	30	195	1600	110	"	"	26
"	90.26	0.61	0.61	T97		2	95	200	180	"	"	2
"	91.26	1.00	1.00	T98		28	720	1.3%	90	"	"	2

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APPENDIX 1.
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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS
					85.70 m to 85.94 m Fault breccia of pink quartz porphyry, and black shale fragments in a sheared sericitised contorted green matrix containing equant quartz crystals 0.5 cm across. Infillings of carbonate occur containing ¼-½% galena.	
					85.94 m to 87.24 m Green chloritised quartz-feldspar porphyry or coarse crystal tuff. The quartz crystals are white, subhedral, and from 3 mm to 12 mm long. Chloritised feldspar (?) crystals, light to dark green in colour, range in size from 1 mm to 4 mm. The fine groundmass is light green in colour. Localised concentrations of chloritised feldspar crystals give the rock a dark green colour. Shears with 20° core angles are present towards the top of the section.	
					87.24 m to 88.03 m Breccia as from 81.59 m to 82.94 m. A 5 cm wide quartz-carbonate of core angle 15° containing brown sphalerite (2% by volume in sample T 94) and traces of galena is present. The lower contact at 88.03 m is a quartz carbonate vein with a 25° core angle.	
					88.03 m to 89.03 m Light green quartz porphyry containing numerous xenoliths (?) of black shale. The black shale fragments are irregular in shape and range in size from 1 cm to 4 cm across.	
					89.03 m to 89.65 m Black carbonaceous shale which is vaguely laminated. The shale, and subordinate green quartz porphyry occuring with it, is comtorted. A trace of brown sphalerite occurs in quartz-carbonate infillings of cavities where the shale has been locally brecciated.	
					89.65 m to 90.26 m Grey quartz porphyry (or vitric crystal tuff). From 89.97 m to 90.26 m the rock is sheared parallel to or at acute angles to the core axis, sericitised and accompanied with a green colour due to chloritisation. Dark green to black crystal pseudomorphs (chloritised feldspars ?) occur throughout; they range up to 5 mm long and are equant or as laths. Quartz crystals disseminated throughout range in size from 0.5 cm to 1.0 cm.	

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS						
					90.26 m to 92.49 m Breccia of brown, green or grey quartz porphyry and minor black shale penetrated irregularly by white quartz. Sample T98 contains approximately 1½% visible brown sphalerite and a trace of galena. The mineralisation is found as irregularly shaped equant or elongate bodies up to 1 cm across. Generally occuring within the white quartz.							
					92.49 m to 103.68 m Brown or green quartz porphyry penetrated by a stock-work of quartz and minor carbonate containing abundant sphalerite and traces of galena and chalcopyrite. Sometimes there is regularity to the orient-ation of sphalerite in the quartz carbonate (as stringers oriented at 20° to 45° to the core axis) but generally the sphalerite forms irregularly shaped bodies and loose aggregates up to 4 cm across.							
						Cu	Pb	Zn	Ba	Ag	Au	As
	91.26 to											
BQ	92.26	1.00	1.00	T99		70	190	3340	90	<1	< 0.05	2
"	92.49	0.23	0.23	T100		70	245	3720	100	"	"	4
"	93.49	1.00	0.99	T101	92.70 m to 95.75 m 3.03 m whole core, remainder broken	2800	5100	11.5%	80	6	"	24
					7% visible brown sphalerite							
"	94.49	1.00	0.99	T102	8% " " "	1050	820	13.5%	80	2	"	3
"	95.49	"	0.99	T103	3% " " " , ¼ to ½% galena	850	3300	5.0%	85	1	"	3
"	96.49	"	0.99	T104	4% " " " , ¼% galena	7200	2.7%	4.9%	80 ?	8	"	30
"	97.49	"	0.99	T105	95.75 m to 98.80 m 3.03 m whole core, remainder broken	2950	4050	2.5%	60	7	"	95
					1% visible brown sphalerite							
"	98.49	"	0.99	T106		920	1900	4180	65	1	"	36
"	99.49	"	0.99	T107	98.80 m to 101.85 m 3.03 m whole core, remainder broken	650	125	890	70	1	"	22
"	100.49	"	0.99	T108	101.85 m to 104.90 m 3.04 m " " " " ;	220	1.85%	600	80	1	"	2
					¼% visible galena.							
"	101.49	"	0.99	T109		90	460	2800	90	<1	"	5
"	102.49	"	1.01	T110		2100	6000	2250	30	"	"	<2
"	103.49	"	1.02	T111		180	240	230	100	"	"	2
"	103.68	0.19	0.19	T112		1250	1.25%	130	22	"	"	2

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 | TYPE D.D.H. | CO-ORDINATES 7.5 N | INCLINATION -50° | DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.P.S. | DATE FINISH 19.11.1974 | DRILLER | COMPANY LONGYEAR | FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	ASSAY RESULTS
					103.68 m to 173.68 m Brown or green quartz porphyry containing rounded quartz crystals 6 mm across. Plagioclase crystals are present from 103.68 m to 138.0 m and are pink in colour due to iron staining? (unreactive to staining for potash) though in places, the plagioclase crystals are chloritised to a dark green colour. The groundmass contains fine potash feldspar. The core intercepts sporadic veins of quartz carbonate with core angles generally less than 40° and containing traces of sphalerite and galena. Significant mineralisation occurs as follows:- ½ - 1% sphalerite (ZnS) and ½% galena (PbS) in sample T126; ½ - ½% ZnS in sample T127, approx 2% ZnS in sample T129; ½ - ½% ZnS in sample T133; and 2% ZnS in sample T142. Other scattered showings of sphalerite occur in later samples within this lithology but never exceed much more than ½%.
					The rock is sheared at 148.4 m at 36° to the core axis. Other minor shears are also present in sporadic occurrence and have core angles less than 60°.
					A shear emplaced band of black shale, 25 cm wide, containing contorted light green slivers of acid volcanic (possibly altered relects of this quartz porphyry) has its upper shear contact (core angle = 45°) at 170.77 m.

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION	Cu	Pb	Zn	Ba	Ag	Au	As
	103.68 to											
BQ	104.00	0.32	0.33	T113		60	90	75	150	<1	<0.05	< 2
"	105.00	1.00	1.03	T114	104.90 m to 107.95 m 3.03 m whole core remainder broken	18	120	65	210	"	"	"
"	106.00	"	0.99	T115		15	30	60	200	"	"	8
"	107.00	"	0.99	T116		22	55	140	170	"	"	<2
"	108.00	"	1.04	T117		28	24	45	200	"	"	4
"	109.00	"	1.00	T118		20	30	100	300	"	"	2
"	110.00	"	1.00	T119	107.95 m to 111.00 m 3.05 m " " " "	5	18	80	180	"	"	4
"	111.00	"	1.00	T120		10	40	95	200	"	"	4
"	112.00	"	1.01	T121		2	16	60	180	"	"	4
"	113.00	"	1.01	T122		50	114	440	180	"	"	2
"	114.00	"	1.01	T123	111.00 m to 114.05 m 3.09 m " " " "	25	50	270	200	"	"	< 2
"	115.00	"	0.97	T124		8	20	42	280	"	"	2
"	116.00	"	0.97	T125		45	120	85	130	"	"	4
"	117.00	"	0.97	T126	114.05 to 117.10 m 3.05 m " " " "	180	3150	6200	210	"	"	< 2
"	118.00	"	1.02	T127		230	170	8400	210	"	"	2
"	119.00	"	1.03	T128	117.10 m to 120.15 m 3.00 m " " " "	140	48	1500	150	"	"	3

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.F.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Ag	Au	As
	119.00 to											
BQ	120.00	1.00	1.03	T129		190	120	7900	130	<1	<0.05	3
"	121.00	"	1.03	T130		15	210	110	130	"	"	3
"	122.00	"	1.03	T131		5	18	280	170	"	"	<2
"	123.00	"	1.03	T132	120.15 m to 123.20 m 3.12 m whole core, remainder broken	12	16	85	180	"	"	"
"	124.00	"	1.01	T133		75	40	900	160	"	"	2
"	125.00	"	1.00	T134		120	1450	900	200	"	"	4
"	126.00	"	1.00	T135	123.20 m to 126.25 m 2.84 m " " " "	120	31	750	170	"	"	3
"	127.00	"	1.00	T136		140	14	5200	190	"	"	2
"	128.00	"	1.00	T137		75	18	40	250	"	"	5
"	129.00	"	1.00	T138	126.25 m to 129.30 m 3.03 m " " " "	45	10	45	190	"	"	<2
"	130.00	"	0.98	T139		75	20	35	480	"	"	"
"	131.00	"	0.97	T140		160	10	85	230	"	"	"
"	132.00	"	0.97	T141	129.30 m to 132.35 m 3.03 m " " " "	42	30	4100	350	"	"	2
"	133.00	"	0.98	T142		65	12	1.3%	450	"	"	"
"	134.00	"	0.98	T143		10	50	65	490	"	"	<2
"	135.00	"	0.98	T144	132.35 m to 135.40 m 3.01 m " " " "	32	6	140	1800	"	"	2
"	136.00	"	0.99	T145		8	24	1650	1450	"	"	<2
"	137.00	"	0.99	T146		8	10	370	650	"	"	2
"	138.00	"	0.99	T147	135.40 m to 138.45 m 3.02 m " " " "	5	20	42	35	"	"	2
"	139.00	"	1.01	T148	138.45 m to 141.50 m 3.10 m " " " "	10	10	32	360	"	"	<2
"	140.00	"	1.02	T149		8	10	30	260	"	"	2
"	141.00	"	1.02	T150		5	35	260	340	"	"	<2
"	142.00	"	1.02	T151		35	145	4850	410	"	"	"
"	143.00	"	1.02	T152		48	32	7000	370	"	"	"
"	144.00	"	1.02	T153	141.50 mto 144.55 m 3.00 m " " " "	5	10	130	490	"	"	"
"	145.00	"	1.02	T154		25	28	130	650	"	"	"
"	146.00	"	1.02	T155		10	16	100	510	"	"	3
"	147.00	"	1.02	T156	144.55 m tom147.60 m 3.00,m " " " "	15	16	70	290	"	"	<2
"	148.00	"	1.02	T157		5	22	65	310	"	"	"
"	149.00	"	1.01	T158		20	165	270	360	"	"	2
"	150.00	"	1.01	T159	147.60 to 150.65 m 2.47 m " " " "	20	49	120	280	"	"	<2
"	151.00	"	1.01	T160		48	20	65	340	"	"	"
"	152.00	"	1.00	T161		300	10	95	320	"	"	"
"	153.00	"	1.00	T162	150.65 m to 153.70 m 3.08 m " " " "	140	10	55	330	"	"	2

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 090° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Ag	Au	As
	153.00 to											
BQ	154.00	1.00	1.00	T163		55	6	22	380	< 1	<0.05	<2
"	155.00	"	1.00	T164		80	6	32	340	"	"	"
"	156.00	"	1.00	T165	153.70 m to 156.75 m 2.96 m whole core, remainder broken.	8	4	28	330	"	"	2
"	157.00	"	1.00	T166		10	6	35	500	"	"	<2
"	158.00	"	1.00	T167		8	10	60	750	"	"	"
"	159.00	"	1.00	T168	156.75 m to 159.80 m 2.95 m " " " "	15	8	2750	240	"	"	"
"	160.00	"	1.00	T169		12	2	1250	340	"	"	2
"	161.00	"	0.99	T170		5	6	850	490	"	"	<2
"	162.00	"	0.99	T171	159.80 m to 162.85 m 2.95 m " " " "	5	<2	400	500	"	"	"
"	163.00	"	0.99	T172		38	6	2300	550	"	"	"
"	164.00	"	0.99	T173		25	2	55	900	"	"	"
"	165.00	"	0.99	T174	162.85 m to 165.90 m 3.00 m " " " "	25	12	70	500	"	"	6
"	166.00	"	0.98	T175		60	6	45	510	"	"	<2
"	167.00	"	0.99	T176		15	4	165	430	"	"	3
"	168.00	"	0.99	T177	165.90 m to 168.95 m 3.00 m " " " "	12	4	100	470	"	"	<2
"	169.00	"	0.98	T178		190	4	100	600	"	"	2
"	170.00	"	1.03	T179	168.95 m to 172.00 m 2.95 m " " " "	230	6	45	610	"	"	<2
"	170.77	0.77	0.79	T180	172.00 m to 175.05 m 2.74 m " " " "	60	6	100	550	"	"	"
"	171.02	0.25	0.25	T131		35	46	330	200	"	"	30
"	172.00	0.98	0.98	T182		12	8	38	500	"	"	<2
"	173.00	1.00	0.97	T183		8	10	100	520	"	"	4

173.68 m to 188.40 m Shear zone laced by a stockwork of carbonate in places.

173.68 m to 176.15 m Contorted sheared mixture of shale and sericitised light green quartz porphyry. Shearing is parralel to or less than 30° to the core axis.

176.15 m to 178.00 m Contorted sheared mixture of shale and minor sericitised light green quartz porphyry. Core angles of shearing = 0°-30° as above.

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 Sock Creek

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 0.90° MAGNETIC

DATE START 1.11.1974 N.W.P.S. DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	DESCRIPTION
					178.00 m to 178.98 m Sheared sericitised light green quartz porphyry with core angles as above.
					178.98 m to 179.88 m Light grey-white chert without signs of shearing and cut by a fine stockwork of carbonate veinlets. A fine black mineral (?sphalerite) is present in streaks parallel to the core axis (approx. 2% by volume).
BQ					
					179.88 m to 181.75 m Sheared sericitised quartz porphyry and sheared grey chert. Core angles 0° to 30° as above.
					181.75 m to 188.40 m Sheared grey chert with fine black pyritiferous material infilling the shear fractures (? mylonitised shale or a fine mixture of sulphides).
					188.40 m to 205.55 m Grey chert which is sheared but to a lesser degree than in the shear zone immediately above. Shearing core angles = 0°-30°.

ASSAY RESULTS

	173.00 to					Cu	Pb	Zn	Ba	Ag	Au	As
BQ	173.68	0.68	0.70	T184		8	12	80	300	<1	<0.05	3
"	174.68	1.00	0.97	T185		18	28	280	300	"	"	13
"	175.68	1.00	0.99	t186	175.05 m to 178.10 m 2.70 m whole core, remainder broken	15	38	150	270	"	"	24
"	176.15	0.47	0.47	T187		55	60	1400	240	"	"	28
"	177.00	0.85	0.85	T188		50	80	130	230	"	"	50
"	178.00	1.00	1.00	T189		75	60	1000	230	"	"	45
"	178.98	0.98	0.86	T190	178.10 m to 181.15 m 2.48 m " " " "	60	46	4500	220	"	"	2
"	179.88	0.90	0.77	T191		610	65	4000	85	"	"	2
"	180.88	1.00	0.86	T192		170	2[illegible]	400	220	"	"	<2
"	181.75	0.87	0.47	T193	181.15 m to 182.40 m 0.25 m " " " "	100	590	320	250	"	"	2
"	182.75	1.00	0.47	T194		80	470	230	210	"	"	8
"	183.75	1.00	0.59	T195	182.40 m to 184.20 m 0.54 m " " " "	20	170	100	300	"	"	7
"	184.75	1.00	0.69	T196	184.20 m to 184.80 m 0.00 m " " " "	42	230	190	320	"	"	7
"	185.75	1.00	0.85	T197		15	190	280	500	"	"	35

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APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 TYPE D.D.H. CO-ORDINATES 7.5 N INCLINATION -50° DIRECTION 090° MAGNETIC

DATE START 1.11.1974 DATE FINISH 19.11.1974 DRILLER COMPANY LONGYEAR FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Ag	Au	As
	185.75 to											
BQ	186.75	1.00	0.59	T198	184.80 m to 186.05 m 0.34 m whole core, remainder broken.	5	30	170	480	"<1	< 0.05	13
"	187.75	"	0.77	T199	186.05 m to 187.25 m 0.46 m " " " "	5	22	150	260	"	"	12
"	188.40	0.65	0.63	T200	187.25 m to 187.85 m 0.54 m " " " "	5	22	110	250	"	"	11
"	189.00	0.60	0.60	T201	187.85 m to 188.40 m 0.00 m " " " "	5	4	55	140	"	"	3
"	190.00	1.00	0.98	T202	188.40 m to 189.00 m 0.26 m " " " "	8	42	240	160	"	"	11
"	191.00	"	0.98	T203.		5	8	75	120	"	"	5
"	192.00	"	0.98	T204	189.00 m to 192.50 m 2.82 m " " " "	8	28	110	140	"	"	5
"	193.00	"	1.04	T205		5	12	90	190	"	"	5
"	194.00	"	1.09	T206		2	6	80	130	"	"	4
"	195.00	"	1.09	T207		2	2	60	160	"	"	<2
"	196.00	"	1.09	T208	192.50 m to 196.40 m 3.71 m " " " "	2	2	48	140	"	"	2
"	197.00	"	1.05	T209		5	<2	60	180	"	"	2
"	198.00	"	1.01	T210		5	"	42	90	"	"	3
"	199.00	"	1.01	T211	196.40 m to 199.55 m 2.55 m " " " "	5	8	40	90	"	"	4
"	200.00	"	1.12	T212		5	20	55	100	"	"	5
"	201.00	"	1.21	T213	199.45 m to 201.45 m 2.39 m " " " "	5	4	48	70	"	"	5
"	202.00	"	1.05	T214		5	4	42	60	"	"	<2
"	203.00	"	0.90	T215		5	4	55	90	"	"	"
"	204.00	"	0.90	T216		5	10	55	90	"	"	"
"	205.00	"	0.90	T217		5	4	30	85	"	"	"
"	205.55	0.55	0.50	T218	201.45 m to 205.55 m 3.24 m " " " "	5	4	65	150	< 1	< 0.05	4
					205.55 m to 219.45 m Fine dark brown-green volcanic consisting of fine brown rock penetrated by a stockwork of hairline chlorite (?) veinlets. In places the brown rock is brecciated and set in a dark green chloritic (?) matrix. Stringers of red haematite ? bearing quartz occur sporadically parallel to the core axis. Several bands of white carbonate 5 cm wide intersect the carbonate at very acute core angles.							
"	206.00	0.45	0.44	T219				8		<1	<0.05	6
"	207.00	1.00	0.98	T220	205.55 m to 208.60 m 2.93 m whole core, remainder broken			8		"	"	12
"	208.00	"	0.98	T221				14		"	"	28
"	209.00	"	1.00	T222				8		"	"	<2

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 2 | TYPE D.D.H. | CO-ORDINATES 7.5 N | INCLINATION -50° | DIRECTION 0.90° MAGNETIC

DATE START 1.11. 1974 (N.W.P.S.) | DATE FINISH 19.11.1974 | DRILLER | COMPANY LONGYEAR | FINAL DEPTH 219.45 m

CORE SIZE	DEPTH	DRILLED METRES	RECOVERED METRES	SAMPLE NO. AND DEPTH	CORE CONDITION AND DESCRIPTION	ASSAY RESULTS						
						Cu	Pb	Zn	Ba	Ag	Au	As
	209.00 to											
BQ	210.00	1.00	1.01	T223	208.60 m to 211.65 m 2.80 m whole core, remainder broken.			10		<1	<0.05	8
"	211.00	"	1.01	T224		5	6	38	200	"	"	4
"	212.00	"	1.02	T225		2	6	35	110	"	"	<2
"	213.00	"	1.026	T226	211.65 m to 214.70 m 3.00 m " " " "	5	6	45	90	"	"	3
"	214.00	"	1.026	T227		5	6	60	110	"	"	<2
"	215.00	"	1.02	T228		5	6	55	400	"	"	"
"	216.00	"	0.99	T229		5	6	45	150	"	"	"
"	217.00	"	0.99	T230	214.70 m to 217.75 m 2.95 m " " " "	2	4	60	180	"	"	"
"	218.00	"	1.00	T231		2	4	60	170	"	"	"
"	219.00	"	0.99	T232		2	4	50	85	"	"	"
"	219.45	0.45	0.45	T233	217.75 m to 219.45 m 1.60 m " " " "	2	4	40	60	"	"	"
					END OF HOLE							

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COMSTAFF PROPRIETARY LIMITED

E.L. 5/63 SOCK CREEK

SUMMARY OF DIAMOND DRILL HOLE SK 2

1. ROCK INTERSECTIONS

0.00 m to	80.17 m	Carbonaceous shale with bands of light grey shale and traces of sphalerite and galena.
80.17 m to	80.86 m	Medium grained brown haemetised crystal tuff (?).
80.86 m to	81.41 m	Breccia of rhyolitic fragments and containing quartz crystals (agglomerate ?). Trace of sphalerite present.
81.41 m to	81.59 m	Carbonaceous mudstone with traces of galena, sphalerite, and chalcopyrite.
81.59 m to	82.94 m	Breccia (agglomerate ?) of pink quartz porphyry.
82.94 m to	84.30 m	Carbonaceous shale containing a trace of sphalerite.
84.30 m to	85.70 m	Same as for 81.59 m to 82.94 m.
85.70 m to	85.94 m	Minor breccia due to shearing of pink quartz porphyry and carbonaceous shale. $\frac{1}{4}$ - $\frac{1}{2}$% galena present.
85.94 m to	87.24 m	Green quartz-feldspar porphyry.
87.24 m to	88.03 m	Same as for 81.59 m to 82.94 m. Up to 2% sphalerite and traces of galena present.
88.03 m to	89.03 m	Green quartz porphyry containing numerous xenoliths (?) of black shale.
89.03 m to	89.65 m	Carbonaceous shale and minor contorted green quartz porphyry. Trace of sphalerite present.
89.65 m to	90.26 m	Grey quartz porphyry (or vitric crystal tuff).
90.26 m to	92.49 m	Breccia of brown, green or grey quartz porphyry and minor black shale containing up to $1\frac{1}{2}$% sphalerite and a trace of galena.
92.49 m to	103.68 m	Brown of green quartz porphyry containing in places up to 8% sphalerite and up to $\frac{1}{2}$% galena in a stockwork of quartz carbonate.
103.68 m to	173.68 m	Brown or green quartz $\pm$ feldspar porphyry containing in places up to 2% sphalerite and up to $\frac{1}{2}$% galena.
173.68 m to	188.40 m	Shear zone containing contorted sheared carbonaceous shale, sericitised green quartz porphyry and grey chert.
188.40 m to	205.55 m	Grey chert sheared to a lesser extent than the shear zone.
205.55 m to	219.45 m	Fine dark brown-green volcanic (?) which has been haematised and chloritised.

END OF HOLE

2. INDICATED VALUES OF ORE

1.0% combined Pb/Zn cut off.

87.24 m - 88.03 m	1.40% Zn;	0.02% Pb;	25 ppm Cu	x	0.79 m drilled thickness		
90.26 m - 91.26 m	1.30% Zn;	0.07% Pb;	28 ppm Cu	x	1.0 m D.T.		
92.49 m - 97.49 m	7.48% Zn;	0.81% Pb;	0.30% Cu;	4.8 ppm Ag	x	5.0 m D.T.	
99.49 m - 100.49 m	0.06% Zn;	1.85% Pb;	220 ppm Cu;	1 ppm Ag	x	1.0 m D.T.	
132.0 m - 133.0 m	1.30% Zn;	12 ppm Pb;	65 ppm Cu;		x	1.0 m D.T.	

0.5% combined Pb/Zn cut off

26.00 m - 28.00 m	0.49% Zn;	0.13% Pb;	125 ppm Cu;	2 ppm Ag	x	2.0 m D.T.	79
39.00 m - 43.00 m	0.67% Zn;	0.06% Pb;	203 ppm Cu:	4 ppm Ag	x	4.0 m D.T.	92
57.00 m - 59.00 m	0.48% Zn;	0.11% Pb;	108 ppm Cu;	3 ppm Ag	x	2.0 m D.T.	81
71.00 m - 75.00 m	0.60% Zn;	0.12% Pb;	121 ppm Cu;	2.5 ppm Ag	x	4.0 m D.T.	83
77.00 m - 80.17 m	0.62% Zn;	0.19% Pb;	154 ppm Cu;	2 ppm Ag	x	3.17 m D.T.	97
87.24 m - 88.03 m	1.40% Zn;	0.02% Pb;	25 ppm Cu;	<1 ppm Ag	x	0.79 m D.T.	99
90.26 m - 98.49 m	4.80% Zn;	0.52% Pb;	0.19% Cu;	3 ppm Ag	x	8.23 m D.T.	90
99.49 m - 100.49 m	0.06% Zn;	1.85% Pb;	0.02% Cu;	1 ppm Ag	x	1.00 m D.T.	3
116.00 m - 120.00 m	0.60% Zn;	0.09% Pb;	0.02% Cu;	<1 ppm Ag	x	4.00 m D.T.	87

$\bar{x}$ = 77
s = 28
n = 9

143053

SUMMARY OF DIAMOND DRILL HOLE SK 2 (continued)

3. CORE RECOVERY

	overall
metres drilled	219.45 m
metres recovered	206.46 m
percentage recovery	94.08 %

4. WATER TABLE

Not recorded.

5. CASING LEFT IN HOLE

6.10 m of N.W. casing.

61.57 m of B.W. casing.

6. BOREHOLE SURVEYS USING TROPARI AND ACID BOTTLES

Borehole depth metres.	Inclination	Direction (magnetic)	Method
collar	50°	090°	SUUNTO compass, BRUNTON clinometer
25	52°		Acid
50	50°		Acid
75	49°	090°	Tropari
75	50°		Acid
100	49°	087°	Tropari
100	48°		Acid
125	48°	090°	Tropari
150	47°	091½°	Tropari
150	48°		Acid
173	46°	093½°	Tropari
217	46°	089½°	Tropari
217	48°		Acid

NOTE - Testing of the Tropari for precision and accuracy prior to drilling this borehole showed that bearings were inaccurate. Bearings ranged from 1° below to 6° above the correct value. Those presented above only give an idea of direction.

143054

054

143055 SK1 D/27

INDEXED

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COMSTAFF PROPRIETARY LIMITED

DIAMOND DRILL HOLE

SK-1 SOCK CREEK E.L.5/63

March 1974

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

055

AUSTRALIAN ANGLO AMERICAN LIMITED

143056

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond

Line 10.0N 6.84W
CO-ORDINATES Collar is 3.4m North of this position. INCLINATION 43° at surface DIRECTION 270° mag.

DATE START

DATE FINISH 28/3/1974

DRILLER Ian Pringle, Steve Rimac COMPANY Longyear

FINAL DEPTH 175.56m (576 feet)
Compiled by R.N.Smith

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS ppm Cu	Pb	Zn
NX	10.06	10.06	0.30			White soft weathered rock containing euhedral quartz crystals up to 1mm in			
NX	11.28	1.22	1.05			size and occasional mafic fragments generally 0.2cm (equant) but up to 1.0cm			
(core condition:-			broken)			(elongate). At 10.0 metres rock is silicified and contains 1.0cm wide vugh			
						(aligned at 70° to core axis) containing euhedral quartz crystals. At 10.70			
						metres faint streaks at 36° to core axis. The core is fractured throughout			
						with iron staining along fractures.			
NX	13.11	1.83	1.92			White soft weathered fractured rock as above. Fine dark layers at 11.28			
(core condition:-			1.10 metres whole			metres inclined at 50° to core axis. Angle to core axis of fractures is			
			Remainder broken)			highly variable.			
NX	13.72	0.61	0.70			Rock as above. At 13.11 metres the hard white rock is intruded by a fine			
(core condition:-			0.28 metres whole			dark green lithology which contains angular 0.3cm fragments of the hard			
			remainder broken)			white rock.			
NX	15.24	1.52	1.52			White fractured weathered rock as above from 13.72 metres to 14.30 metres			
(core condition:-			0.90 metres whole			at 13.90 metres is 2.0cm wide dark band inclined at 57° to core axis cont-			
			remainder broken)			aining angular fragments of the white host rock. At 14.30 metres, lithology			
						change to weathered dark rock containing angular fragments of white rock			
						up to 0.7cm in size (some fragments are grey or black) and weathered crystals			
						up to 1mm in size. A 1.0cm wide quartz vein is inclined at 10° to core axis.			
						Numerous hairline limonite veinlets at 55° to core axis and at 15.0 metres			
						a shear inclined at 50° to axis. At 15.50 metres are 0.5cm wide quartz			
						veins at 12° to core axis. At 16.46 metres			
NX	16.46	1.22	1.22			Rounded to angular black and grey fragments up to 0.7cm size (sedimentary			
(core condition:-			0.50 metres whole			breccia?) are present; four 0.2cm wide quartz veins are inclined at 10° to			
			remainder broken)			core axis - one bisects a round black 1.0cm fragment. At 18.35 metres			
NX	17.37	0.91	0.79			Breccia as before with fine shear at 21° to core axis and 1.0cm displacement;			
(core condition:-			0.49 metres whole			fragments in breccia are generally white, some are black (up to 1.5cm in			
			remainder broken)			size).			
NX	19.35	1.98	0.76			18.35 - 19.35 metres Rock is completely limonitised.			
(core condition:-			0.40 metres whole						
			remainder broken)			AT 19.35 metres lithology change			
NX	20.12	0.77	0.19	20-21	TC 801	From 19.35 metres to 27.74 metres fine grey rock with mafic bodies of	8	28	150
(core condition:-			broken)	21-23	TC 802	variable angularity, often less than 0.1cm in size. The rock is either	10	65	650
NX	23.16	3.04	1.35			a siltstone or an altered volcanic.			
(core condition:-			broken)	23-26	TC 803		12	6	150
BX	26.21	3.05	1.13			AT 27.74 metres lithology change			
(core condition:-			broken)	26-27	TC 804		12	4	150
BX	27.74	1.53	0.50	27-27.74	TC 805	From 27.74 metres to 34.59 metres very hard grey chert cut by white ir-	10	6	170
(core condition:-			broken)			regular fractures in many directions. At 31.80 metres is carbonate-coated fracture inclined at 14° to core axis; other fractures below this often			

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AUSTRALIAN ANGLO AMERICAN LIMITED

143057

PROJECT: SOCK CREEK E.L.5/63

EASTMAN MULTISHOT BOREHOLE CAMERA

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION 47° at 29.26 metres DIRECTION

DATE START DATE FINISH 28/3/74 DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
BX	29.26	1.52	1.27	27.74-29	TC 806	carbonate filled. (Core condition:- 0.75 metres whole, remainder broken)	5	6	32
BX	30.48	1.22	0.33	29-30	TC 807	Core condition:- 0.20 metres whole, remainder broken)	5	18	95
				30-31	TC 808		5	10	50
BX	32.61	2.13	1.80	31-32	TC 809	Core condition:- 0.80 metres whole, remainder broken)	5	4	50
				32-33	TC 810		5	6	180
BX	34.59	1.98	1.80	33-34.59	TC 811	From 34.59 metres to 37.0 metres fractures in chert more fine and numerous.	5	8	50
				34.59-37	TC 812	Irregularly shaped infillings of carbonate up to 2.0cm size. Trace of fine disseminated sulphides with silvery metallic lustre present. Some fractures are coated with films of fine pyrite and carbonate. Core condition:- 0.70 metres whole, remainder broken.	8	135	210
BX	35.20	0.61	0.80			Core condition:- 0.40 metres whole, remainder broken.			
BX	37.34	2.14	1.61			From 37.0 metres to 41.36 metres hard compact chert breccia containing angular white to dark grey fragments. Absence of carbonate. Core condition:- 0.66 metres whole, remainder broken)			
BX	38.10	0.76	0.80	37-38	TC 813	Core condition:- 0.40 metres whole, remainder broken.	5	8	70
				38-39	TC 814		5	8	110
BX	40.23	2.13	2.13	39-40	TC 815	Core condition:- 0.95 metreswhole, remainder broken.	8	20	35
BX	40.54	0.31	0.31			Broken core.			
BX	41.00	0.46	0.29	40-41.36	TC 816	Broken core.	8	65	140
						CHANGE IN LITHOLOGY			
BX	41.45	0.45	0.34	41.36-42	TC 817	From 41.36 metres to 43.00 metres Heavy black shale, containing some carbonate, with bedding at 65° to core axis. Some pods of quartz up to 2.0cm long are present, also trace of fine disseminated pyrite. Film of fine pyrite occassonally as coating on fracture surfaces. Broken core.	28	255	1200
BX	41.76	0.31	0.31						
BX	42.67	0.91	0.82						
BX	42.98	0.31	0.17	42-43	TC 818		42	225	600
BX	43.13	0.15	0.21	43-43.5	TC 819	From 43.00 metres to 43.50 metres Heavy black shale with bedding normal to core axis.	35	150	700
BX	45.72	2.59	1.64			From 43.50 metres to 45.72 metres Hard yellowish-green silicified volcanic. At 43.6 metres are shears inclined at 60° to core axis bounding slivers of fine hard dark material and quartz. At 43.8 metres the hard yellowish-green silicified volcanic contains contorted slivers of fine dark material and quartz. At 44.3 metres the rock contains a vugh (1.0cm across) within which are euhedral quartz crystals and galena (0.1cm grain size) of less than 1% sulphide. Some irregularly shaped stringers of quartz up to 1.0cm across contain a fine black material and pyrite. From 44.30 metres to 45.10 metres the rock is cut by 0.5cm quartz veins in various directions. From 45.10 metres to 45.20 metres is a fault at 25° to core axis with			
				43.5-44.3	TC820		110	515	900
				44.3-45.3	TC821		15	50	700
				45.3-45.72	TC822		5	10	170

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AUSTRALIAN ANGLO AMERICAN LIMITED

143058

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 28/3/74 DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
						slickensides pitching 53° from strike. From 45.20 metres to 45.30 metres is yellowish green brecciated volcanic. From 45.30 metres to 45.72 metres the yellowish green volcanic is cut by quartz veins up to 0.5cm wide containing some fine black material. Core condition:- 0.63 metres whole remainder broken.			
BX	48.16	2.44	2.64			Core condition: 2.26 metres whole, remainder broken.			
				45.72-46.8	TC823	From 45.72 metres to 46.80 metres grey silicified rock with quartz veins, black rounded to angular clasts up to 0.2cm in size, and also some equant white clasts (0.5cm size) which are hazy in outline. The rock may be a volcanic breccia.	5	28	120
				46.8-47.2	TC824	46.80 metres to 47.20 metres fine grey hard volcanic (ressembling chert) with some yellow or pink discolouration. The rock contains yellow-green euhedral crystal pseudomorphs (0.2cm to 0.3cm in size) which are sometimes aggregated. Some irregular quartz veins and pods less than 0.5cm wide	22	14	120
				47.2-48.16	TC825	are present. From 47.20 metres to 48.16 metres the groundmass is discoloured yellowish-green and the pseudomorphs of phenocrysts are dark green in colour. Some irregular quartz veins up to 1.0cm wide are present. At 47.55 metres the dark yellowish green rock contains indistinct white hexagonal in outline phenocrysts (up to 0.8cm size) identified as quartz. Indistinct dark green bodies (up to 0.5cm size) are also present. At 48.16 metres a 1.0cm wide quartz vein is inclined at 30° to the core axis.	15	14	55
BX	50.90	2.74	2.54			Core condition: 1.84 metres whole, remainder broken. From 48.16 metres to 48.56 metres Grey cherty rock which, for most part is finely fractured and discoloured yellowish green. The rock is frequently cut by irregular milky quartz veins varying in width up to 3.0cm. Some dark green pseudo-			
				48.16-49	TC826	morphs of phenocrysts (less than 0.2cm in size) are present. From 48.56 metres to 49.90 metres the core contains a fine hard dark yellow-green	8	8	140
				49-49.9	TC827	discoloured rock with euhedral quartz phenocrysts (up to 0.5cm size). Some dark green bodies are present (less than 0.6cm size) which are equant or elongate, inclined at 60° to core axis. From 49.90 metres to 50.40 metres alteration of the dark yellow-green rock has caused some equant to elongate phenocrysts to be pseudomorphed by a yellow mineral; these crystal relicts are hexagonal in outline and up to 0.5cm in size. Quartz phenocrysts (up to 0.5cm size) are present. At 50.40 metres this rock contains cream-coloured, oval, fine grained bodies (up to 2.0cm size) containing quartz phenocrysts (0.1cm size) which were identified as quartz	48	50	150

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AUSTRALIAN ANGLO AMERICAN LIMITED

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PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 28/3/74 DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
						rhyolite; the bodies are aligned at 65° to the core axis.			
				49.9-50.9	TC828	From 50.40 metres to 50.90 metres the core appears to contain a breccia of cream-coloured fragments set in a dark yellow-green groundmass - the brecciated appearance may be an alteration phenomenon but is probably caused by shearing.	25	16	140
BX	52.58	1.68	1.83			Core condition:- 0.90 metres whole, remainder broken.			
				50.9-51.2	TC 829	From 50.90 metres to 51.20 metres sheared rock containing some euhedral 0.5cm quartz phenocrysts with rounded edges and more abundantly yellow phenocrysts (0.2cm to 0.5cm in size). Shears are inclined at 38° to the core axis. From 51.20 metres to 51.75 metres the core contains the fine yellow-green porphyritic rock as before. Quartz euhedral range up to 0.5cm size, and yellow pseudomorph phenocrysts range likewise. At 51.75 metres are shears at 14° to the core axis - pods of pinkish white material (up to 0.5cm wide) follow the shears. At 51.50 metres a 1.0cm wide quartz vein is inclined at 24° to the core axis. From 51.75 metres to 51.88 metres fine cream coloured quartz rhyolite(?) containing abundant euhedral clear quartz crystals which are mostly less than 0.1cm in size,	38	12	110
				51.2-52.47	TC830	but some attain 0.5cm size. This rock is possibly of hydrothermal origin. From 51.88 metres to 52.18 metres fine yellowish-green porphyritic rock containing pale yellow euhedral phenocryst pseudomorphs up to 0.2cm in size. Some euhedral quartz phenocrysts (up to 0.4cm size) are present and also some irregular quartz veins (up to 0.4cm wide). From 52.18 metres to 52.47 metres is a fragment of cream-coloured rhyolite(?) contained within thevellowish-green fine grained porphyritic rock above and below.	70	42	3900
BX	54.86	2.28	2.0			Core condition:- 1.74 metres whole, remainder broken. From 52.47 metres to 52.98 metres the core contains a stockwork of quartz veins predominantly set in flesh pink-coloured fine rock (rhyolite), the quartz veins contain sphalerite (total sulphide of 5-10%) which is chiefly the black iron-rich variety, and a trace of chalcopyrite. From 52.98 metres			
				52.47-53.5	TC 831	to 53.50 metres the rhyolite contains some phenocrysts of quartz and pink feldspar - mineralization is less than 1%. From 53.50 metres to 54.40	500	85	3.70%
				53.5-54.4	TC 832	metres this same rhyolite is well penetrated by a stockwork of quartz veins which pinch and swell in width up to 5cm wide. Some carbonate is contained in these veins. Also cut by veins and more abundant is the fine hard yellow-green rock. Brown sphalerite comprises 2%, and a fine black mineral (galena but more likely iron-rich sphalerite) comprises 2-3%.	120	305	2.40%

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AUSTRALIAN ANGLO AMERICAN LIMITED

143060

PROJECT: SOCK CREEK E.L. 5/63

EASTMAN MULTISHOT BOREHOLE CAMERA

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION 45° at 54.86 metres DIRECTION

DATE START DATE FINISH 28/3/74 DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
				54.4-		From 54.40 metres to 54.86 metres 1% brown sphalerite and fine black			
				55.4	TC 833	mineral in yellow green fine rock containing some quartz phenocrysts	130	195	1.35%
						(0.5cm).			
BX	56.39	1.53	1.60			Core condition:- 1.10 metres whole, remainder broken.			
						From 54.86 metres to 56.22 metres fine yellowish-grey rock resembling			
						chert with some quartz veins in random orientation. Phenocrysts are present			
				55.4-		and comprise mostly quartz (0.5cm) apart from discoloured feldspar pseudo-			
				56.2	TC 834	morphs. Less than 1% sphalerite and galena present.	470	355	0.82%
						From 56.22 metres to 56.39 metres is a fine hard yellow green siliceous			
				56.2-		rock (10%) containing galena (50%) and sphalerite (40%). From 56.39 metres			
				56.76	TC 835	to 56.76 metres is yellowish green hard volcanic cut by some quartz veins	90	10.10%	10.80%
						and containing some yellowish phenocryst pseudomorphs. 1-2% sphalerite,			
						trace galena present.			
BX	59.44	3.05	3.05			Core condition: 2.87 metres whole, remainder broken.			
				56.76-		From 56.76 metres to 60.56 metres brown altered equivalent of yellowish			
				57.35	TC 836	green volcanic. It contains numerous pink feldspars (0.5cm size) and	12	1.10%	0.48%
				57.35-		quartz phenocrysts. Both types of phenocrysts have hazy outlines.			
				58.5	TC 837	Quartz veins up to 5cm wide are in general inclined at 50° to 60° to the	48	675	820
				58.5-		core axis. Between 56.84 metres and 57.10 metres the porphyry is flesh-			
				59.5	TC 838	coloured with 1-2% sphalerite associated with quartz veins. Less than 1%	5	20	90
				59.5-		galena and a trace of chalcopyrite is present. 10% of the core between			
				60.56	TC 839	57.10 metres and 57.35 metres consists of a fine black material (? iron-	18	35	1000
						rich sphalerite ± galena). A 1cm wide quartz carbonate vein is inclined			
						at 50° to the core axis. A shear is inclined at 15° to the core axis.			
BX	62.48	3.04	3.04	60.56-		Core condition:- 2.87 metres whole, remainder broken.			
				61.5	TC 840	From 60.56 metres to 62.42 metres fine pink porphyritic rock (colour caused	270	160	920
				61.5-		by alteration) which contains relicts of feldspar phenocrysts, now haemat-			
				62.42	TC 841	ized, and some quartz crystals (up to 0.4cm in size). The porphyry is	120	265	320
						cut by a stockwork of quartz veins. Patches of the rock have been			
						chloritised in association with minor shears. At 60.56 metres is a shear			
				62.42-		inclined at 60° to the core axis, slickensides pitch 50° from strike, below			
				63.0	TC 842	which is a 10cm zone chloritised to green colour. Trace of pyrite present.	8	225	2450
BX	65.53	3.05	3.05			Core condition:- 2.98 metres whole, remainder broken.			
						From 62.42 metres to 62.64 metres green chloritised porphyritic rock			
						containing rounded quartz phenocrysts generally up to 0.5cm in size.			

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143061

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 28/3/74 DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
				63-64	TC 843	From 62.64 metres to 64 metres grey granular rock resembling a sediment	15	34	2500
						or lapilli tuff. Rounded quartz grains are present and range in size from			
						0.1cm to 0.5cm. A total of less than 1% sphalerite is associated with some			
						quartz veins. At 63.10 metres A 1cm wide quartz vein containing sphalerite is			
						inclined at 40° to the core axis. At 63.90 metres is a stockwork of quartz			
				64-64.7	TC 844	plus carbonate veins up to 1cm wide. From 64 metres to 64.7 metres cream-	8	1400	3600
				64.7-		coloured porphyritic rock containing indistinct euhedral grains of quartz			
				65.7	TC 845	(0.5cm in size). Siliceous honeycombed vughs up to 3cm across are present.	30	345	1400
				65.7-		From 64.70 metres to 66.80 metres fine grained altered rock with the			
				66.8	TC 846	groundmass coloured pink or dark grey in patches - the pink colour is more	25	1150	310
						common. Indistinct quartz crystals up to 0.6cm are present. The rock is			
						probably an altered porphyry. From 66.80 metres to 67.87 metres altered			
						porphyry (of previous section) with a groundmass blotched pink and dark			
						grey green in equal proportion. Indistinct quartz and feldspar crystals			
				66.8-		from 0.1cm to 0.6cm in size are present, at 67.52 metres is a pod of galena			
				67.87	TC 847	and sphalerite measuring 3cm x 1cm. From 67.87 metres to 67.97 metres	10	115	7900
						the rock is as before but is entirely green with no pink (haematised) patches.			
BX	68.58	3.05	3.53			Core condition:- 2.93 metres whole, remainder broken.			
				67.87-		From 67.97 metres to 68.58 metres grey speckled volcanic containing			
				68.58	TC 848	indistinct quartz grains which are generally 0.2cm or less in size but can	60	45	7500
						attain 0.6cm size. Some pink feldspar crystals 0.2cm in size are present.			
				68.58-		The groundmass is grey with darker spots which may be locally greater			
				69.28	TC 849	concentrations of some dark mineral. Some irregular quartz veins are	30	4600	3.10%
				69.28-		present. An 0.4cm wide layer of sphalerite ± galena occurs at 68.03 metres.			
BX	70.71	2.13	1.20	70.28	TC 850	Core condition:- 1.06 metres whole, remainder broken.	850	1.10%	15.00%
						From 68.58 metres to 70.28 metres Quartz and yellowish rhyolite quartz			
						porphyry intruded/replaced by sphalerite, a fine black mineral(? iron-rich			
						sphalerite) and a trace of chalcopyrite. A total of approximately 15%			
				70.28-		sphalerite occurs in this section. From 70.28 metres to 70.71 metres			
				71	TC 851	pink quartz-feldspar porphyry intruded(?) in places by a fine grey hard	15	130	1500
						lithology. The porphyry contains rounded quartz phenocrysts (0.5cm in			
				71-72	TC 852	size) and pink haematised feldspar phenocrysts (generally 0.3cm in size).	12	105	230
BX	71.93	1.22	1.37			Core condition:- 1.25 metres whole, remainder broken.			
				72-73	TC 853	From 70.71 metres to 73.8 metres greenish brown hard compact fragmental	200	2200	1.95%
						rock containing indistinct angular to rounded white quartz fragments set			
						in a hard dark green matrix. Brown alteration of the matrix occurs in			
						patches. Several irregular quartz-carbonate veins up to 1.0cm wide are			

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143062

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: COCK CREEK E.L. 5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION 44° at 35.34 metres DIRECTION W 4°S mag.

DATE START DATE FINISH DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
BX	74.98	3.05	2.13			inclined at 50° to the core axis. Core condition:- 1.53 metres whole,			
						remainder broken. From 73.8 metres to 74.98 metres hard fine grey-green			
				73-74	TC 854	partially chloritised rock with indistinct rounded quartz fragments .5cm size.	10	22	1400
				74-75	TC 855	At 74 metres are several quartz veins with widths varying up to 1cm wide	20	55	1350
				75-76	TC 856	inclined at 57° to the core axis.	38	32	350
BX	78.18	3.20	3.05	76-77	TC 857	Core condition:- 2.65 metres whole, remainder broken. From 74.98 metres to	35	10	1.40%
						79.87 metres Hard brown porphyry containing rounded phenocrysts of pink			
						feldspar (0.5cm size) and white quartz (0.7cm size). Between 76.58 metres			
				77-78	TC 858	and 76.88 metres is 15% sphalerite associated with milky quartz veins, the	5	6	880
				78-79	TC 859	largest of which is 13cm across inclined at 57° to the core axis. At 79.67	5	6	240
						metres is a fine stockwork of quartz veins.			
BX	81.38	3.20	3.11			Core condition:- 3.05 metres whole, rest broken.			
				79-79.87	TC 860	From 79.87 metres to 82.64 metres Hard green porphyry containing pink	5	8	140
				79.87-30.5	TC 861	feldspar and quartz phenocrysts with rounded indistinct outlines. A 4.5cm wide quartz vein containing 30% sphalerite (brown and black varieties)	5	8	180
				80.5-81.5	TC 862	is inclined at 82° to the core axis. A total of approximately 1% sphalerite in whole section. From 82.64 metres to 83.23 metres Quartz-feldspar	30	195	9750
				81.5-82.64	TC 863	porphyry as before but with greenish yellow groundmass which is fractured	12	45	3000
				82.64-83.23	TC 864	at random. A minor shear is inclined at 6° to the core axis.	8	22	5700
BX	84.43	3.05	3.05	83.23-84	TC 865	Core condition:- whole. From 83.23 metres to 100.40 metres Light green	40	135	3000
				84-84.93	TC 866	porphyry as before. Euhedral pink feldspars (up to 0.5cm size) predominate	95	145	3000
				84.93-85.49	TC 867	as phenocrysts over quartz. At 84.23 metres is quartz vein at 16° to core axis. Less than 1% sphalerite occurs between 83.23 metres and 84.93 metres. Between 84.93 and 85.49 metres is a band 4.5cm wide of fractured sphalerite	1600	3.30%	1.95%
						in quartz with fissures infilled by remobilized carbonate and quartz (brown sphalerite accounts for one fifth of this band, the remainder is iron-rich sphalerite ± galena). 90% sulphide occurs between 84.93 metres and 85.49 metres consisting of 30% brown sphalerite; 10% galena; the remainder is iron-rich sphalerite ± galena.			
BX	87.48	3.05	3.05	85.49-86.5	TC 868	Core condition:- 2.85 metres whole, remainder broken.	95	455	1.25
						From 85.49 metres to 100.40 metres The green quartz-feldspar porphyry			
				86.5-87.5	TC 869	occurs as it did above 84.93 metres. Feldspar phenocrysts are euhedral pink to white in colour and up to 0.5cm size. Quartz phenocrysts are less common (up to 1.0cm size) and are generally round. A 4.0cm wide quartz vein inclined at 28° to the core axis contains 25% brown sphalerite and 50% iron rich sphalerite ± galena.	35	14	1800
						Quartz veins occur at random, ranging			

062

AUSTRALIAN ANGLO AMERICAN LIMITED

 143063

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION 43° at 106.68 metres DIRECTION

DATE START DATE FINISH DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
				87.5-88.5	TC 870	up to 11cm wide but are often 2.0cm wide.	55	42	1.80%
BX	90.53	3.05	3.10	88.5-89.5	TC 871	Core condition: 2.70 metres whole, remainder broken. At 88.72 metres A 1.0cm wide band black and brown sphalerite is inclined	18	10	3150
				89.5-90	TC 872	at 50° to the core axis. At 89.25 metres a quartz vein containing a 1.0cm wide central band of mostly black sphalerite is inclined at 50°	55	215	1.85%
				90-91	TC 873	to the core axis. At 89.43 metres a 1.0cm displacement on a shear	10	18	65
				91-92	TC 874	inclined at 50° to core axis. At 89.70 metres a 13.0cm wide quartz	38	20	520
				92-93	TC 875	vein containing 15-20% black sphalerite.	130	2150	3150
BX	93.57	3.04	3.02	93-94	TC 876	Core condition:- 2.82 metres whole, remainder broken.	8	4	30
				94-95	TC 877	From 92.40 metres to 92.66 metres the porphyry is cut by a fine stockwork	10	6	40
				95-96	TC 878	of quartz and chlorite (?) veinlets, often 0.1cm wide. At 92.96 metres	10	22	30
BX	96.62 (whole core)	3.05	3.05	96-97	TC 879	is a 2.0cm band of galena ± black sphalerite. At 99.67 metres are faint	10	14	95
				97-98	TC 880	layers in porphyry at 35° to core axis. From 100.40 metres to 101.1 metres	8	6	45
BX	99.67 (whole core)	3.05	2.97	98-99	TC 881	the porphyry groundmass is a dark green colour, and the feldspar phenocrysts	5	12	55
				99-100	TC 882	are discoloured to yellow-green. From 101.1 metres to 103.75 metres the	12	14	55
				100-101	TC 883	porphyry groundmass varies in colour from green, brown to pink. This	8	8	38
BX	102.72 (whole core)	3.05	2.9	101-102	TC 884	section of core is characterised by the feldspar phenocrysts being a pink	5	6	48
				102-103	TC 885	colour (at times they are pink-brown due to haematisation). Quartz veins	8	16	100
				103-104	TC 886	up to 1.0cm wide occur at random. A fine quartz stockwork occurs at	5	8	50
BX	105.77	3.05	3.05	104-105	TC 887	103.25 metres. Core condition:- 2.85 metres whole, remainder broken.	5	8	38
				105-106	TC 888	From 103.75 metres to 111.36 metres porphyry as before but quartz is now	5	4	32
				106-107	TC 889	the more dominant phenocryst, with rounded edges and up to 1.0cm in size.	5	< 4	32
BX	108.81	3.04	3.10	107-108	TC 890	Feldspar phenocrysts are discoloured to yellow green and in places dark	10	60	320
	Core condition:- 2.94 metres whole, rest broken.			108-109	TC 891	green. The groundmass is light/dark green. At 110.26 metres is shear	10	4	130
				109-110	TC 892	(core angle = 25°).	15	12	230
BX	111.86	3.05	2.88	110-111.36	TC 893	Core condition:- 2.60 metres whole, remainder broken. From 111.36 metres to 115.14 metres is a contorted shear breccia of black	10	14	490
				111.36-112.2	TC 894	shale and yellow green quartz porphyry. Quartz veins are restricted to the shale fragments. The shale fragments are up to 40cm across. A shear	28	140	1550
				112.2-113.2	TC 895	is inclined at 35° - 45° to the core axis.	50	215	4150
BX	114.6	2.74	2.74	113.2-114.2	TC 896	Core condition:- 2.14 metres whole, remainder broken.	35	215	2000
				114.2-115.14	TC 897	From 115.14 metres to 115.85 metres breccia of shale and yellow green	48	105	4100
				115.14-115.85	TC 898	quartz-feldspar porphyry which has been fractured and infilled by fine grey silica and brown sphalerite; the sphalerite has a botryoidal fine	70	245	8.00%
						layering (cf deposition of colloidal particles) in section.			
BX	117.65	3.05	3.07			Core condition:- 2.67 metres whole, remainder broken.			

063

AUSTRALIAN ANGLO AMERICAN LIMITED

143064

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE ..... CO-ORDINATES ..... INCLINATION 41.5° at 137.16 metres DIRECTION .....

DATE START ..... DATE FINISH ..... DRILLER ..... COMPANY Longyear FINAL DEPTH .....

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
				115.85-117	TC 899	At 115.85 metres a sphalerite vein is inclined at 30° to the core axis. Core condition:- 2.95 metres whole, remainder broken.	8	245	240
BX	120.70	3.05	3.05			From 115.85 metres to 118 metres is highly altered quartz-feldspar porphyry with 0.5cm sized phenocrysts. The feldspars are discoloured bluish green to dark green. The groundmass is coloured light green, white and dark green in patchy distribution.			
				117-118.3	TC 900	At 116.50 metres a vughy quartz vein is inclined at 65° to axis.	12	8	240
				118.3-119	TE 001	From 118 metres to 118.30 metres the groundmass is a green and similar to	32	10	6000
				119-120	TE 002	serpentinite. Only quartz phenocrysts (0.5cm in size) are visible. Less	22	10	75
				120-121	TE 003	than 1% sphalerite is present as some generally elongate bodies up to 2.0cm	12	< 4	120
				121-122	TE 004	long and 0.3cm wide.	18	4	170
BX	121.31	0.61 (whole core)	0.59	122-122.82	TE 005	From 118.30 metres to 126.95 metres very altered porphyry as in the 115.85 metres to 118 metres section, but so severe in places as to destroy	8	6	70
				122.82-123.55	TE 006	texture. From 122.82 metres to 123.15 metres is haematisation of the	12	16	70
BX	123.75	2.44 (whole core)	2.44	123.55-124.5	TE 007	feldspar phenocrysts and groundmass. From 123.15 metres to 123.55 metres the altered porphyry contains black irregular bodies up to 0.5cm size.	8	12	90
BX	126.80	3.05	3.09	124.5-125.5	TE 008	Core condition:- 3.01 metres whole, rest broken.	8	<4	48
				125.5-126.95	TE 009	From 126.95 metres to 127.37 metres is sheared porphyry and shale breccia with fragments up to 6cm across. Shears occur at random but the bottom of this section is bounded by a set of shears with core angle = 62°.	10	10	55
BX	129.84	3.04	3.04	126.95-127.37	TE 010	Core condition:- 2.74 metres whole, rest broken. From 127.37 metres to 129.84 metres is fine grey-green acid volcanic with occasional quartz phenocrysts. At 128.70 metres are quartz-carbonate veins (up to 1.0cm wide) with core angles up to 15°. Crystals of pyrite and a prismatic black mineral (less than 0.1cm in size) are contained by the carbonate.	18	26	48
				127.37-128	TE 011		5	12	80
				128-129	TE 012		5	12	45
				129-129.84	TE 013		5	32	45
BX	132.89	3.05	2.90	129.84-130.84	TE 014	Core condition:- 2.50 metres whole, rest broken. From 129.84 metres to 131.94 metres the same rock as previous section but	18	8	45
				130.84-131.94	TE 015	quartz phenocrysts (rounded, less than 1.0cm size) are more obvious and are sometimes associated with black angular bodies up to 0.5cm size (?shale as in breccia). Fine shears present with core angle of 46°. A trace of chalcopyrite is associated with quartz veins.	360	145	60
BX	133.20	0.31 (whole core)	0.46			From 131.94 metres to 145.76 metres is cream to dark green quartz-feldspar porphyry with pink feldspars and euhedral quartz crystals with rounded corners up to 0.5cm in size. In places the rock is finely fractured and penetrated by a dark green mineral (probably chlorite).			
BX	135.33	2.13 (whole core)	1.96						

064

143065

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK E.L.5/63

BOREHOLE No. SK-1 TYPE Diamond CO-ORDINATES INCLINATION 41.5° at 137.16 metres DIRECTION W6°S mag.
41° at 167.64 metres

DATE START N.G.S. DATE FINISH DRILLER COMPANY Longyear FINAL DEPTH

CORE SIZE	DEPTH metres	DRILLED metres	RECOVERED metres	Depth metres	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS
BX	138.99	3.66	3.81			Core condition:- 3.31 metres whole, rest broken.	
BX	141.12	2.13	2.13			Core condition:- 1.83 metres whole, rest broken.	
BX	144.17	3.05	3.12			Core condition:- 2.82 metres whole, rest broken.	
BX	147.52	3.35	3.20			Core condition:- 3.12 metres whole, rest broken.	
						From 145.76 metres to 146.88 metres the porphyry contains a quartz plus chlorite(?) vein at 7° to the core axis associated with discolouration of feldspars to dark green or yellow colour. From 146.88 metres to 156.67 metres the feldspars in the porphyry are once more pink. At 147.84 metres is shear with core angle = 45°. At 148.16 metres is quartz plus chlorite vein at 7° to core axis. The porphyry varies in colour from cream to green.	
BX	150.57	3.05 (whole core)	2.97			From 156.67 metres to 159.70 metres the porphyry generally is cream-coloured with some 0.2cm wide quartz veins often no greater than 20° core angle. Core condition:- 2.37 metres whole, rest broken.	
BX	153.62	3.05	2.67				
BX	156.67	3.05	3.23			Core condition:- 3.15 metres whole, rest broken. From 159.70 metres to 175.56 metres the groundmass of the porphyry is now generally green. Occasional patches of cream or brown coloured groundmass occur associated with haematisation of the feldspars. Quartz veins occur at random.	
BX	158.95	2.28 (whole core)	1.70				
BX	160.63	1.68 (whole core)	2.21				
BX	163.68	3.05	2.97			Core condition:- 2.91 metres whole, rest broken.	
BX	166.73	3.05 (whole core)	2.95				
BX	169.77	3.04 (whole core)	3.15				
BX	170.99	1.22 (whole core)	1.32				
BX	172.73	1.74 (whole core)	1.73				
BX	175.56	2.83	3.00			Core condition:- 2.76 metres whole, rest broken.	
						HOLE COMPLETED 175.56 METRES	

065

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATOR
x = not detected at the limits quoted
REPORT AN 4245/74

FORM 91

Results in ppm unless otherwise stated. Detection limits

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES
x = not detected at the limits quoted
REPORT AN 4245/74

Results in ppm unless otherwise stated. Detection limits in brackets.

1

143066

Sample No	Be (1)	Co (5)	Cr (20)	Mn (10)	Mo (3)	Nb (20)	Ni (5)	V (10)	Ag (0.1)	Au (3)	Bi (1)	Cd (3)	Ga (1)	Ge (1)	Sb (30)	Hg (0.15)
TC 826	1	x	100	100	3	x	5	20	0.1	x	x	x	5	x	x	x
7	3	x	50	100	x	x	x	20	0.1	x	x	x	10	x	x	x
8	3	x	80	300	x	x	x	30	x	x	x	x	20	x	x	x
9	3	x	30	400	x	x	x	20	0.1	x	x	x	30	x	x	x
30	3	x	50	400	3	x	x	20	0.1	x	x	x	10	x	x	x
1	1	5	80	300	5	x	10	10	3	x	x	150	5	x	x	x
2	1	x	150	300	3	x	x	10	1	x	x	80	3	x	x	x
3	1	x	150	50	3	x	5	10	0.5	x	x	30	10	x	x	x
4	1	x	50	150	10	x	x	30	3	x	1	30	30	x	x	x
5	1	5	50	100	x	x	x	10	30	x	x	500	10	x	x	0.15
6	x	x	80	150	x	x	x	10	3	x	x	20	10	x	x	x
7	x	x	50	200	x	x	x	10	0.1	x	x	x	10	x	x	x
8	1	x	50	200	x	x	x	20	x	x	x	x	10	x	x	x
9	3	x	50	200	x	x	x	20	x	x	x	x	20	x	x	x
40	1	x	150	1,000	5	x	x	20	0.1	x	x	x	20	x	x	x
1	1	x	100	500	x	x	5	20	0.1	x	x	x	20	x	x	x
2	1	x	100	100	3	x	5	20	0.3	x	x	30	20	x	x	x
3	1	x	100	500	x	x	5	20	x	x	x	5	10	x	x	x
4	1	x	80	1500	3	x	5	20	0.3	x	x	10	10	x	x	x
5	3	x	80	500	x	x	5	20	0.1	x	x	x	20	x	x	x
6	3	x	50	1,000	x	x	x	10	0.1	x	x	x	30	x	x	x
7	2	x	80	300	3	x	5	30	0.5	x	x	50	30	x	x	x
8	1	x	50	100	3	x	5	20	0.3	x	x	30	20	x	x	x
9	1	x	80	100	x	x	5	10	0.1	x	x	200	10	3	x	x
50	1	20	100	50	3	x	5	10	10	x	x	800	10	3	x	x

Results are semi-quantitative. Elements apparently present in concs are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analyticast should be redetermined by an appropriate accurate analytical technique.

066

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATOR
x = not detected at the limits quoted
REPORT AN 4245/74

FORM 91

Results in ppm unless otherwise stated. Detection limits

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES
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REPORT AN 4245/74

Results in ppm unless otherwise stated. Detection limits in brackets.

6

143067

Sample No	Be (1)	Co (5)	Cr (20)	Mn (10)	Mo (3)	Nb (20)	Ni (5)	V (10)	Ag (0.1)	Au (3)	Bi (1)	Cd (3)	Ga (1)	Ge (1)	Sb (30)	Hg (0.15)
TC 801	1	30	300	800	x	x	100	500	x	x	x	x	10	x	x	x
2	1	5	100	200	x	x	30	100	0.1	x	x	x	10	x	x	x
3	1	50	300	500	x	x	150	300	x	x	x	x	20	x	x	x
4	1	80	300	800	x	x	200	300	0.1	x	x	x	10	x	x	x
5	1	80	400	300	x	x	250	400	x	x	x	x	10	x	x	x
6	1	5	500	200	1,000	x	50	80	x	x	x	x	10	x	x	x
7	1	x	80	100	x	x	5	50	x	x	x	x	10	x	x	x
8	1	x	100	100	3	x	5	30	0.1	x	x	x	10	x	x	x
9	1	x	50	150	3	x	5	30	0.1	x	x	x	30	x	x	x
10	1	x	50	120	3	x	5	20	0.1	x	x	x	10	x	x	x
1	1	20	150	150	3	x	30	100	0.1	x	x	x	10	x	x	x
2	1	20	200	2,000	x	x	50	100	0.1	x	x	x	10	x	x	x
3	1	30	200	800	3	x	30	100	0.1	x	x	x	5	x	x	x
4	1	30	100	500	3	x	30	80	0.1	x	x	x	20	x	x	x
5	1	50	100	200	10	x	30	50	0.1	x	x	x	10	x	x	x
6	1	10	80	500	3	x	20	30	0.1	x	x	x	10	x	x	x
7	3	300	200	2,000	3	x	150	400	3	x	1	x	20	x	x	x
8	3	300	150	2,500	3	x	100	200	3	x	1	x	30	x	x	x
9	3	200	150	3,000	5	x	80	150	2	x	x	x	10	x	x	x
20	1	x	100	300	x	x	5	30	0.1	x	x	x	10	x	x	x
1	1	x	80	300	x	x	5	30	0.1	x	x	x	30	x	x	x
2	1	x	80	500	x	x	x	20	x	x	x	x	10	x	x	x
3	1	x	50	200	3	x	x	20	0.1	x	x	x	10	x	x	x
4	3	x	50	300	10	x	x	30	0.1	x	x	x	20	x	x	x
5	1	x	50	150	5	x	x	20	0.1	x	x	x	20	x	x	x

Results are semi-quantitative. Elements apparently present in concs are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analyticalst should be redetermined by an appropriate accurate analytical technique.

067

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES
x = not detected at the limits quoted
REPORT AN 4245/74

FORM 91

Results in ppm unless otherwise stated. Detection limits

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES
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REPORT AN 4245/74

Results in ppm unless otherwise stated. Detection limits in brackets.

8

143068

Sample No	Be (1)	Co (5)	Cr (20)	Mn (10)	Mo (3)	Nb (20)	Ni (5)	V (10)	Ag (0.1)	Au (3)	Bi (1)	Cd (3)	Ga (1)	Ge (1)	Sb (30)	Hg (0.15)
FC851	2	x	80	500	3	x	5	20	0·1	x	x	x	20	x	x	x
2	2	x	50	300	x	x	x	20	0·1	x	x	x	20	x	x	x
3	1	x	80	300	3	x	x	20	0·3	x	x	100	10	x	x	x
4	1	x	30	300	x	x	x	10	x	x	x	x	2	x	x	x
5	2	x	50	250	3	x	5	20	0·1	x	x	x	30	x	x	x
6	1	x	30	100	x	x	x	10	0·1	x	x	x	30	x	x	x
7	1	x	30	250	x	x	5	10	0·1	x	x	200	30	x	x	x
8	1	x	50	150	x	x	5	20	x	x	x	x	20	x	x	x
9	1	x	80	150	3	x	5	50	x	x	x	x	10	x	x	x
60	1	x	80	150	x	x	x	20	x	x	x	x	10	x	x	x
1	1	x	50	200	x	x	x	20	0·1	x	x	x	20	x	x	x
2	1	x	50	150	x	x	x	20	0·3	x	x	30	10	x	x	x
3	1	x	50	300	x	x	x	20	0·1	x	x	10	10	x	x	x
4	1	x	30	300	3	x	5	10	0·3	x	x	50	30	x	x	x
5	1	x	50	80	x	x	x	20	0·1	x	x	10	10	x	x	x
6	1	x	50	80	x	x	x	30	0·1	x	x	x	10	x	x	x
7	x	30	50	300	3	x	5	10	10	x	1	500	10	3	x	3
8	1	x	50	150	x	x	5	30	0·3	x	x	80	10	x	x	x
9	1	x	100	150	x	x	5	30	0·1	x	x	x	20	x	x	x
70	1	x	100	100	3	x	5	20	0·3	x	x	200	30	3	x	x
1	1	x	100	100	x	x	5	10	0·1	x	x	10	20	x	x	x
2	1	x	100	200	x	x	5	20	0·5	x	x	100	20	x	x	x
3	1	x	80	100	x	x	5	20	0·1	x	x	x	10	x	x	x
4	1	x	80	150	x	x	x	10	0·1	x	x	x	20	x	x	x
5	2	x	50	200	x	x	x	10	0·3	x	x	x	30	x	x	x

Results are semi-quantitative. Elements apparently present in concns are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analyticalst should be redetermined by an appropriate accurate analytical technique.

068

Semi-quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES

x = not detected at the limits quoted

REPORT AN 4245/74

PRJ: 91

Results in ppm unless otherwise stated. Detection limits

Semi-quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES

x = not detected at the limits quoted

REPORT AN 4245/74

Results in ppm unless otherwise stated. Detection limits in brackets.

9

143069

Sample No	Be (1)	Co (5)	Cu (20)	Mn (10)	Mo (3)	Nb (20)	Ni (5)	V (10)	Ag (0.1)	Au (3)	Bi (1)	Cd (3)	Ga (1)	Ge (1)	Sb (30)	Hg (0.15)
C876	1	x	80	250	x	x	x	10	x	-	x	x	10	x	x	x
7	1	x	50	250	x	x	x	10	x	x	x	x	20	x	x	x
8	1	x	100	250	3	x	10	10	x	x	x	x	20	x	x	x
9	1	x	80	250	3	x	x	30	x	x	x	x	30	x	x	1
80	1	x	50	200	3	x	5	20	x	x	x	x	20	x	x	x
1	1	x	30	200	x	x	x	20	x	x	x	x	20	x	x	x
2	1	x	30	250	x	x	x	10	x	x	x	x	10	x	x	x
3	1	x	30	250	x	x	x	30	0.1	x	x	x	20	x	x	x
4	1	x	50	300	x	x	x	20	x	x	x	x	10	x	x	x
5	1	20	100	300	3	x	5	30	0.1	x	x	x	10	x	x	x
6	1	x	50	300	x	x	x	20	x	x	x	x	5	x	x	x
7	1	x	50	200	3	x	5	20	x	x	x	x	20	x	x	x
8	1	x	50	150	x	x	x	20	0.1	x	x	x	20	x	x	x
9	1	x	50	150	x	x	x	20	0.1	x	x	x	20	x	x	x
90	1	x	80	200	x	x	10	20	x	x	x	x	20	x	x	x
1	1	x	80	100	x	x	5	30	0.1	x	x	x	20	x	x	x
2	1	x	50	80	x	x	10	20	0.1	x	x	x	10	x	x	x
3	1	x	50	100	5	x	10	20	0.1	x	x	x	30	x	x	x
4	3	80	50	200	10	x	20	100	1	x	x	x	50	x	x	x
5	3	100	80	200	20	x	30	150	3	x	x	3	30	x	x	x
6	1	5	30	300	5	x	20	30	0.3	x	x	x	30	x	x	x
7	1	30	100	50	10	x	20	80	0.5	x	x	x	30	x	x	x
8	1	x	100	50	30	x	10	20	5	x	x	500	30	x	x	0.15
9	1	x	100	150	x	x	5	30	0.1	x	x	x	30	x	x	x
C900	1	x	30	200	x	x	5	30	0.1	x	x	x	30	x	x	x

Results are semi-quantitative. Elements apparently present in concs are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical

st should be redetermined by an appropriate accurate analytical technique.

069

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATOR
x = not detected at the limits quoted
REPORT AN 4245/74

RM 91

Results in ppm unless otherwise stated. Detection limits

Semi-Quantitative Spectrographic Analysis

THE AUSTRALIAN MINERAL DEVELOPMENT LABORATORIES
x = not detected at the limits quoted
REPORT AN 4245/74

Results in ppm unless otherwise stated. Detection limits in brackets.

10

143070

Sample No	Be (1)	Co (5)	Cr (20)	Mn (10)	Mo (3)	Nb (20)	Ni (5)	V (10)	Ag (0.1)	Au (3)	Bi (1)	Cd (3)	Ga (1)	Ge (1)	Sb (30)	Hg (0.15)
E001	1	x	50	100	x	x	5	50	0.1	x	x	3	50	x	x	x
2	1	x	100	150	x	x	5	50	0.1	x	x	x	40	x	x	x
3	1	x	100	150	x	x	x	50	0.1	x	x	x	20	x	x	x
4	1	x	80	150	x	x	10	30	0.1	x	x	x	50	x	x	x
5	1	x	100	300	x	x	x	80	0.1	x	x	x	30	x	x	x
6	1	x	80	200	x	x	10	30	0.1	x	x	x	30	x	x	x
7	1	x	50	300	x	x	x	20	0.1	x	x	x	20	x	x	x
8	1	x	50	100	x	x	x	20	0.1	x	x	x	30	x	x	x
9	1	x	80	80	x	x	10	50	0.1	x	x	x	10	x	x	x
10	1	5	50	80	5	x	5	80	0.1	x	x	x	30	x	x	x
1	1	x	50	300	3	x	5	30	0.1	x	x	x	30	x	x	x
2	1	x	50	200	x	x	5	20	0.1	x	x	x	20	x	x	x
3	1	x	30	250	x	x	x	10	0.1	x	x	x	10	x	x	x
4	1	x	30	250	x	x	x	10	0.1	x	x	x	20	x	x	x
5	1	5	50	200	x	x	5	20	0.1	x	x	x	20	x	x	x
									Geo	$A_1+A_2+A_7$	(115×19) =		2185			

Results are semi-quantitative. Elements apparently present in concs are semi-quantitative. Elements apparently present in concentrations of economic interest should be redetermined by an appropriate accurate analytical st should be redetermined by an appropriate accurate analytical technique.

070

143071

SOCK CREEK - E.L.5/63

SK-1 BOREHOLE SUMMARY

1. ROCK INTERSECTIONS

0 - 19.35m		soft weathered acid volcanics
19.35m - 27.74m		siltstone or fine grained tuff
27.74m - 41.36m		chert
41.36m - 43.50m		shale
43.50m - 51.75m		quartz feldspar porphyry (lava?)
51.75m - 56.39m		quartz rhyolite
56.39m - 62.64m		quartz feldspar porphyry (lava?)
62.64m - 64.00m		fine grained tuff
64.00m - 68.58m		quartz feldspar porphyry (lava?)
68.58m - 70.28m		rhyolite
70.28m - 111.36m		quartz feldspar porphyry
111.36m - 115.85m		shale
115.85m - 175.56m		quartz feldspar porphyry

END OF HOLE

N.B. Extensive shearing and alteration occurs over the first 132m of core after which both shearing and alteration are subordinate.

2. INDICATED VALUESOF ORE

	metres	% Zn	% Pb	% Cu		metres	
Indicated values of ore 0.5% Zn cut off							
51.20 - 52.47		0.39	0.004	0.007	x	1.27	99
52.47 - 57.35		2.92	1.309	0.024	x	4.88	69
57.35 - 66.80		0.121	0.013	0.006	x	9.45	90
66.80 - 70.28		5.32	0.316	0.027	x	3.48	94
70.28 - 72.00		0.076	0.012	0.002	x	1.72	34
72.00 - 73.00		1.95	0.220	0.020	x	1.00	90
73.00 - 76.00		0.120	0.004	0.002	x	3.00	97
76.00 - 77.00		1.40	0.001	0.004	x	1.00	100
77.00 - 80.50		0.039	0.001	0.001	x	3.50	98
80.50 - 81.50		0.975	0.020	0.003	x	1.00	98
81.50 - 84.93		0.360	0.009	0.004	x	3.43	98
84.93 - 86.50		1.490	1.206	0.063	x	1.57	55
86.50 - 87.50		0.180	0.001	0.004	x	1.00	99
87.50 - 88.50		1.800	0.004	0.006	x	1.00	100
88.50 - 89.50		0.315	0.001	0.002	x	1.00	100
89.50 - 90.00		1.85	0.022	0.006	x	0.5	99
51.20 - 90.00		1.19	0.253	0.011	x	38.8	$\bar{x}$ = 89, s = 18, n = 16
52.47 - 70.28		1.904	0.427	0.015	x	17.81	

3. BOREHOLE SURVEYS (EASTMAN KODAK MULTISHOT)

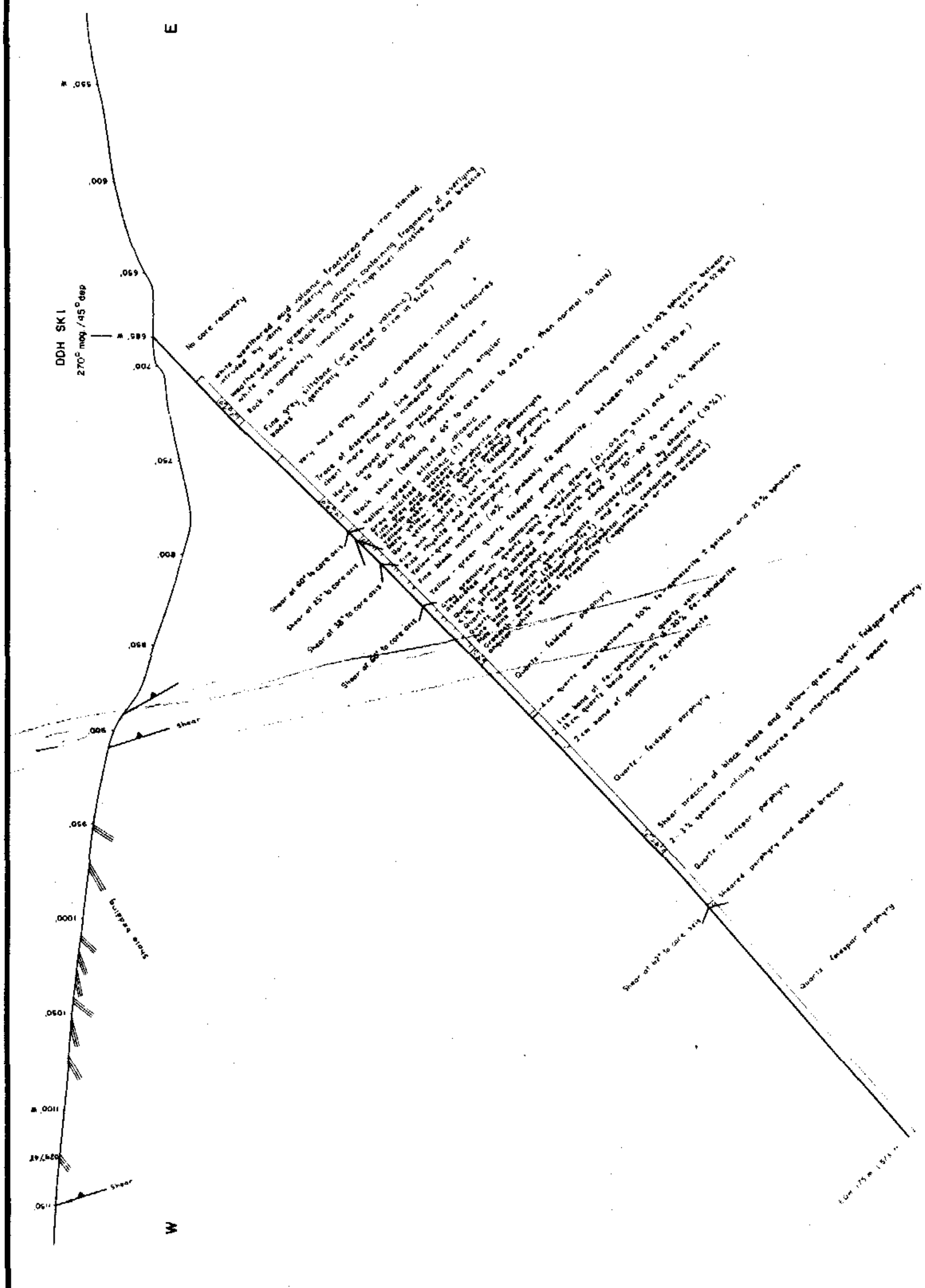
Depth	Inclination	Direction
Surface	- 43°	270° (M)
29.26m	- 43°	?
54.86m	- 45°	?
85.34m	- 44°	266° (M)
106.68m	- 43°	?
137.16	- 41.5°	?
167.64m	- 41°	264° (M)

Indicated values of ore 1.0% Zn cut off

52.47 - 55.40	2.490	0.019	0.026	x	2.93	
55.40 - 56.20	0.820	0.036	0.047	x	0.80	
56.20 - 56.76	10.800	10.100	0.009	x	0.56	
56.76 - 68.58	0.237	0.067	0.005	x	11.82	
68.58 - 70.28	10.100	0.836	0.051	x	1.70	
70.28 - 72.00	0.076	0.012	0.002	x	1.72	
72.00 - 73.00	1.950	0.220	0.020	x	1.00	
73.00 - 76.00	0.120	0.004	0.002	x	3.00	
76.00 - 77.00	1.400	0.001	0.004	x	1.00	
77.00 - 84.93	0.296	0.007	0.003	x	7.93	
84.93 - 86.50	1.490	1.206	0.063	x	1.57	
86.50 - 87.50	0.180	0.001	0.004	x	1.00	
87.50 - 88.50	1.800	0.004	0.006	x	1.00	
88.50 - 89.50	0.315	0.001	0.002	x	1.00	
89.50 - 90.00	1.850	0.022	0.006	x	0.50	
115.14 - 115.85	8.000	0.025	0.002	x	0.71	

071

143072



5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

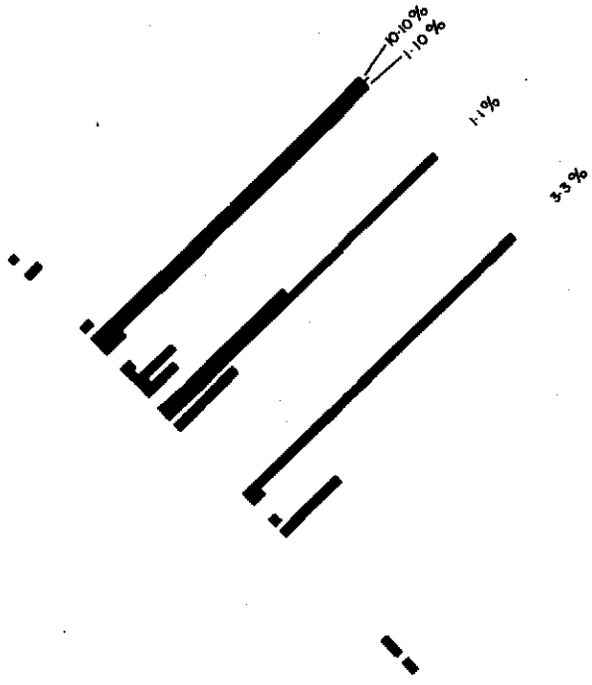
DDH. SKI. SECTION

GEOLOGY

DRAWN	COMPILED	SCALE	PLAN No
R.B. 4/74	R.N.S	1:1000	TAS/2/500

072

143073



5 cm

COMSTAFF PROPRIETARY LIMITED

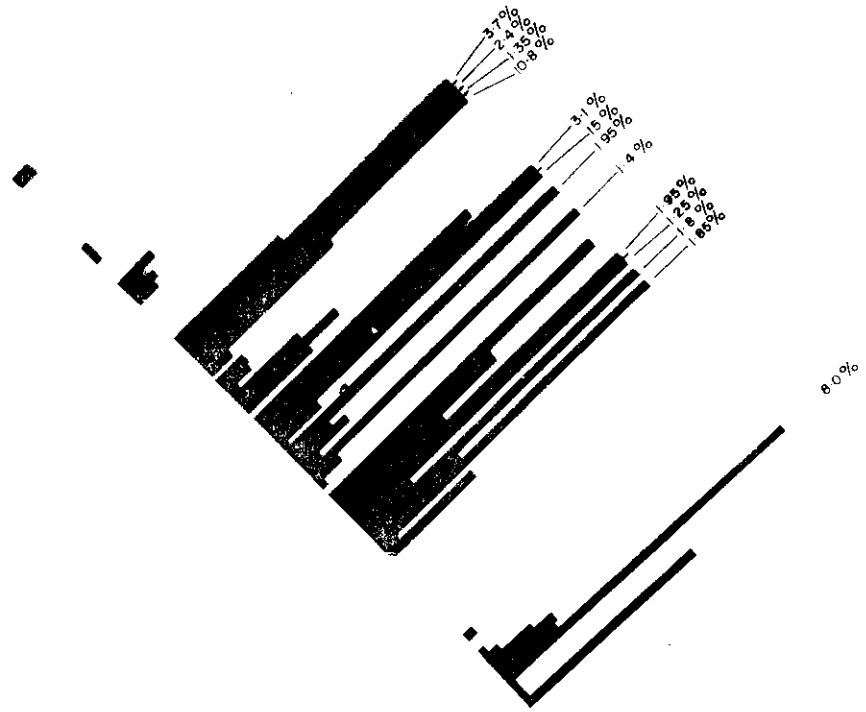
SOCK CREEK PROSPECT

D.D.H. SKI SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J.H. 11/75		H=1:1000,V=1:2000ppm	TAS/2/500

143074



5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT			
D.D.H. SKI. SECTION			
ZINC HISTOGRAMS			
DRAWN J.H. 11/75	COMPILED	SCALE H=1:1000,V=1:2000ppm	TAS/2/500

074

143075

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SKI SECTION

COPPER CONTOURS

DRAWN	COMPILED	SCALE	
J.H.		1:1000	2000ppm

075

E.L. 5/63

143076

MICROFILMED

aac

A.D. | C.G. | E.O. | D. DIR. | 25 JUN 1985 | DEPT. OF MINES | E & IL | REF. No. 6499/85

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DIAMOND DRILL HOLE SK 14

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Sock Creek Area
Burnie Sheet SK 55-3

COMMODITY/IES: Lead and Zinc

TEXT PAGES NO: 3

PLAN NOS: Nil

TABLE NOS: Nil

APPENDICES: Nil

AUTHOR/S: D.B. Orr

DATE: November 1976

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

078

AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG

Summary Sheet

PROJECT	Comstaff Proprietary Limited	AREA	Sock Creek	DRILLHOLE TYPE	Diamond
CO-ORDS	1000m N 1240m E	DEC LN	-60°	AZIMUTH	270°M
RL	-	DH No.	SK 14		
DATE COMMENCED	9.10.76	DATE COMPLETED	14.10.76	DRILLED BY	Longyear
DRILL RIG	Longyear 44				
Non Coring to:	3m	HQ Core to:	-	NQ Core to:	3m - 171m
BQ Core to:	-	EOH	171.0m		

SURVEY DATA

Instrument: Acid bottle

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0	-	60°	270°M				
50m	64.3°	57°	270°M (assumed)				
100m	64.1°	56.5°	270°M (assumed)				
150m	62.8°	55.5°	270°M (assumed)				

LOG SUMMARY

ROCK TYPE			MINERALIZATION Style	Grade	Intersection width (Corr)
0 - 7.6m	Shale				
7.6m - 61.5m	Interbedded tuff, crystal tuff, chert and rhyolite.		143m - 144m: 9000ppm Cu, 60ppm Pb, 190ppm Zn x 1m drilled thickness		
61.5m - 92.7m	Quartz felspar porphyry				
92.7m - 108.3m	Interbedded tuffs and agglomerate				
108.3m - 115.0m	Agglomerate of rhyolite and shale				
115.0m - 118.3m	Quartz felspar porphyry				
118.3m - 147.0m	Interbedded cherts, shales, tuffs, crystal tuffs and agglomerates				
147.0m - 155.0m	Quartz felspar porphyry				
115.0m - 171.0m	Rhyolite				

N.W.P.S.

Signature

Date 6.12.76

1430772

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143078

APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: COMSTAFF PROPRIETARY LIMITED

BOREHOLE No. SK 14 | TYPE Diamond | CO-ORDINATES 1000m N 1240m E | INCLINATION -60° | DIRECTION 270°M

DATE START 9.10.76 | DATE FINISH 14.10.76 | LOGGED BY D. Orr | DRILL Longyear 44 | FINAL DEPTH 171.0m

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm) Cu	Pb	Zn
0	3.0	3.0	nil		-	No core			
3.0	7.6	4.6	1.2		T4325	Weathered black shale	160	120	120
7.6	11.8	4.2	2.3		T4326	Weathered, fine grained, pink tuff. NB. Not porphyritic	10	50	56
11.8	16.5	4.7	2.5		T4327	As above	6	28	54
16.5	19.6	3.1	2.0		T4328	Pink agglomerate	4	48	150
19.6	22.6	3.0	3.0		T4329	Interbedded pink agglomerate and tuff	8	50	140
22.6	25.0	2.4	2.0		T4330	Coarse pink crystal tuff to lapilli tuff fragments to 10mm	4	96	640
25.0	28.0	3.0	2.6		T4331	Grey green tuff with pink fragments to 5mm	24	50	400
28.0	31.0	3.0	2.9		T4332	Interbedded tuff, crystal tuff and lapilli tuff. Overall grey green in colour	8	34	140
31.0	34.0	3.0	2.8		T4333	As above	4	40	90
34.0	37.0	3.0	2.9		T4334	Grey tuff	8	28	102
37.0	40.0	3.0	3.0		T4335	As above with minor chert and quartz veins. Some carbonate	10	18	70
40.0	43.0	3.0	3.0		T4336	Fine grained green, silicified volcanic rock. Trace pyrite. (Tuff? or lava). Green due to chlorite	20	20	72
43.0	46.0	3.0	3.0		T4337	As above, but with some brecciation	20	16	60
46.0	49.0	3.0	3.0		T4338	As above, but more obviously a finely fractured rhyolite. Trace pyrite	4	16	78
49.0	52.0	3.0	3.0		T4339	Grey green tuff with isolated cherty bands	4	16	64
52.0	55.0	3.0	3.0		T4340	As above	4	16	86
55.0	58.0	3.0	2.6		T4341	Very broken core. Mainly as above but somewhat bleached	4	16	52
58.0	61.5	3.5	2.9		T4342	Rock very similar to above but less broken. Bleached sections consist of white rhyolite. More solid core from 60.2m	4	14	48
61.5	64.0	2.5	2.5		T4343	Grey quartz felspar porphyry. Note felspar is creamy white (albite?) Quartz is rounded with poorly defined boundary. Felspar euhedral to subhedral to 5mm.	4	16	44
64.0	67.0	3.0	3.0		T4344	As above	6	14	40
67.0	70.0	3.0	3.0		T4345	As above (bleached 68m - 69m)	2	14	54
70.0	73.0	3.0	3.0		T4346	As above	4	18	60
73.0	76.0	3.0	3.0		T4347	As above	4	16	58
76.0	79.0	3.0	3.0		T4348	As above	4	14	40
79.0	82.0	3.0	3.0		T4349	As above	4	16	44
82.0	85.0	3.0	3.0		T4350	As above	2	14	32
85.0	88.0	3.0	3.0		T4351	As above	4	16	38
88.0	91.0	3.0	3.0		T4352	As above. Carbonate vein at 90.5m with a trace of pyrite	2	16	102
91.0	92.7	1.7	1.7		T4353	As above	4	16	36
92.7	96.0	3.3	3.3		T4354	Banded rock alternating pink and grey, with quartz porphyroblasts throughout	4	14	36
96.0	99.0	3.0	3.0		T4355	As above, but carbonate veins at 97.5m and 97.8m	8	16	92
99.0	100.4	1.4	1.4		T4356	Predominantly pink rhyolite with quartz porphyroblasts	4	12	38
100.4	103.0	2.6	2.6		T4357	Alternating grey and pink bands with scattered quartz porphyroblasts. Grey bands show shearing, pink bands lightly fractured rhyolite.	4	12	64
103.0	105.6	2.6	2.6		T4358	As above. Minor quartz veins <1%	4	12	30
105.6	108.3	2.7	2.7		T4359	Predominantly pink rhyolite, but with thin black shears and quartz veins to 5%	4	12	28

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143079

APPENDIX 1.

Page 3

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT:

BOREHOLE No. SK 14 TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm) Cu	Pb	Zn
108.3	109.0	0.7	0.7		T4360	Breccia (lava breccia?). Large fragments of pink rhyolite with black pyritic shale in fractures. Quartz porphyroblasts throughout	4	22	58
109.0	112.0	3.0	3.0		T4361	Alternating 10cm wide bands of black pyritic shale and crystal tuff Crystal tuff has white quartz porphyroblasts	8	38	120
112.0	115.0	3.0	3.0		T4362	As above. Some brecciation	6	26	70
115.0	118.3	3.3	3.3		T4363	Grey quartz felspar porphyry	4	18	50
118.3	121.0	2.7	2.7		T4364	Pinkish brown sheared volcanic with quartz carbonate veining	4	18	32
121.0	124.0	3.0	3.0		T4365	Alternating 20cm bands crystal tuff and lapilli tuff. Some brecciation and shearing	4	18	70
124.0	127.0	3.0	3.0		T4366	As above but with shale as groundmass in lapilli tuff	4	20	84
127.0	130.0	3.0	3.0		T4367	A sequence of poorly sorted volcanic fragments, from agglomerate fragments to fine tuff mixed with large chert fragments and shale. Carbonate veining is present but <1%. Some pyrite aggregates.	6	28	40
130.0	133.0	3.0	3.0		T4368	Breccia fragments of volcanics and chert in pyritic shale matrix. Some quartz veining of which some is also brecciated. Pyrite in groundmass	6	24	48
133.0	136.0	3.0	3.0		T4369	As above	6	26	36
136.0	139.0	3.0	3.0		T4370	As above	6	20	40
139.0	142.3	3.3	2.0		T4371	Very broken core as above, but kaolinised and fractured	10	40	80
142.3	143.0	0.7	0.7		T4372	Pale greeny sericitic volcanic and pink rhyolite. Fractured with pyrite and chalcopyrite	26	20	38
143.0	144.0	1.0	1.0		T4373	Alternating bands sheared shale? and tuffs. Chalcopyrite bands 10mm thick at 143.7m and 143.9m in tuff and shale respectively. Bands cut core at 55° to core axis	9000	60	190
144.0	145.0	1.0	1.0		T4374	Pink tuff with quartz veins and pyrite	1350	20	60
145.0	146.0	1.0	1.0		T4375	As above	950	18	44
146.0	147.0	1.0	1.0		T4376	First half is black pyritic shale followed by crystal tuff	560	38	260
147.0	148.0	1.0	1.0		T4377	Fractured quartz felspar porphyry. Quartz carbonate vein at 147.6m	200	20	80
148.0	149.0	1.0	1.0		T4378	Grey green quartz felspar porphyry	44	24	76
149.0	152.0	3.0	3.0		T4379	As above	10	20	60
152.0	155.0	3.0	3.0		T4380	As above	6	16	36
155.0	158.0	3.0	3.0		T4381	Pale grey rhyolite, porphyritic in parts	6	16	32
158.0	161.0	3.0	3.0		T4382	As above	6	24	280
161.0	164.0	3.0	2.8		T4383	Broken pale grey rhyolite, kaolinised along fractures	6	46	130
164.0	167.0	3.0	2.8		T4384	As above	6	18	48
167.0	171.0	4.0	3.5		T4385	As above	4	70	80
						End of hole			

143080

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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DIAMOND DRILL HOLE SK 13

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Sock Creek Area
Burnie Sheet SK 55-3

COMMODITY/IES: Lead and Zinc

TEXT PAGES NO: 4

PLAN NOS: Nil

TABLE NOS: Nil

APPENDICES: Nil

AUTHOR/S: D.B. Orr

DATE: November 1976

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

080

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

143081

PROJECT	COMSTAFF PROPRIETARY LIMITED	AREA	SOCK CREEK
CO-ORDS	920m N 1240m E	DEC LN	-90°
AZIMUTH	-	RL	-
DRILLHOLE TYPE	Diamond	DH No.	SK 13
DATE COMMENCED	3.10.76	DATE COMPLETED	7.10.76
DRILLED BY	Longyear	DRILL RIG	Longyear 44
Non Coring to:	3.0m	HQ Core to:	-
NQ Core to:	3.0m - 210.5m	BQ Core to:	-
EOH	210.5m		

SURVEY DATA

Instrument: Acid bottle

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0m	-90°	-90°	Unknown				
210m	-84°	-84°	Unknown				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0m - 108.0m Quartz felspar porphyry	Nil		
108.0m - 120.0m Pyritic shale			
120.0m - 137.0m Agglomerate of volcanics in shale			
137.0m - 146.7m Crystal tuff			
146.7m - 157.7m Chert			
157.7m - 174.0m Fine grained tuff			
174.0m - 210.5m Alternating tuff and lapilli tuff bands			

Signature

Date 6.12.76

N.W.P.S.

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143082

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: COMSTAFF PROPRIETARY LIMITED

BOREHOLE No. SK 13 TYPE Diamond drill CO-ORDINATES 920m N 1240m E INCLINATION -90° DIRECTION -

DATE START 3.10.76 DATE FINISH 7.10.76 LOGGED BY D. Orr DRILL Longyear 44 FINAL DEPTH 210.5m

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
0	3.0	3.0	0			No recovery			
3.0	6.0	3.0	0.3		T3855	Weathered reddish brown porphyry with manganese staining on joints	4	16	38
6.0	9.0	3.0	1.2		T3856	As above	48	20	46
9.0	12.0	3.0	2.0		T3857	As above. Felspar phenocrysts are more abundant than quartz	32	18	56
12.0	15.0	3.0	2.5		T3858	As above	4	14	50
15.0	18.0	3.0	2.5		T3859	Grey green quartz felspar porphyry. Quartz and felspar are in equal amounts to 5mm.	6	16	44
18.0	21.0	3.0	3.0		T3860	As above	4	14	32
21.0	24.0	3.0	3.0		T3861	As above	4	14	24
24.0	27.0	3.0	3.0		T3862	As above. Alteration associated with a quartz vein at 26m.	4	14	22
27.0	30.0	3.0	3.0		T3863	As above	4	14	36
30.0	33.0	3.0	3.0		T3864	As above. Isolated quartz phenocrysts to 10mm. Alteration along joints at 32m-33m.	4	14	36
33.0	36.0	3.0	3.0		T3865	As above	6	14	32
36.0	39.0	3.0	3.0		T3866	As above	6	14	44
39.0	42.0	3.0	3.0		T3867	As above	6	16	54
42.0	45.0	3.0	3.0		T3868	As above	4	16	52
45.0	48.0	3.0	3.0		T3869	As above	4	14	42
48.0	51.0	3.0	3.0		T3870	As above	6	16	34
51.0	54.0	3.0	3.0		T3871	As above. A few 5mm quartz veins cutting core at 70° to core axis.	4	14	30
54.0	57.0	3.0	3.0		T3872	As above. Quartz veins increasing in thickness and more numerous, and show alteration of adjoining porphyry.	4	14	26
57.0	60.0	3.0	3.0		T3873	As above. Quartz veins now form 15% of total volume	4	12	20
60.0	63.0	3.0	3.0		T3874	As above. Quartz veins 5%	6	16	44
63.0	66.0	3.0	3.0		T3875	As above. Quartz veins 2%	4	16	30
66.0	69.0	3.0	3.0		T3876	As above. Quartz with carbonate forms 15% of volume	104	22	36
69.0	72.0	3.0	3.0		T3877	As above. No veining	2600	210	150
72.0	75.0	3.0	3.0		T3878	As above. No veining	18	12	38
75.0	78.0	3.0	3.0		T3879	As above. No veining	4	16	68
78.0	81.0	3.0	3.0		T3880	As above to 79.5m, then porphyroblasts are less obvious	16	18	48
81.0	84.0	3.0	3.0		T3881	Grey green quartz porphyry with subsidiary felspars. Quartz veining 5% from 81.5m.	6	16	38
84.0	87.0	3.0	3.0		T3882	As above with only a few hairline veins	4	18	44
87.0	90.0	3.0	3.0		T3883	Grey green quartz felspar porphyry	4	18	68
90.0	93.0	3.0	3.0		T3884	As above	30	16	64
93.0	96.0	3.0	3.0		T3885	As above	4	16	60
96.0	99.0	3.0	3.0		T3886	As above to 98m, then finely fractured creamy rhyolite with quartz phenocrysts	78	20	56
99.0	102.0	3.0	3.0		T3887	Finely shattered creamy rhyolite alternating with grey quartz felspar porphyry	14	14	24
102.0	105.0	3.0	3.0		T3888	Grey quartz felspar porphyry. Quartz carbonate veins, 1cm in width, every 10cm from 104m.	6	16	28

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT:

BOREHOLE No. SK 13 TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
105.0	108.0	3.0	3.0		T3889	As above, but quartz carbonate veins increasing numerically and in thickness. Minor pyrite.	4	20	40
108.0	111.0	3.0	3.0		T3890	Finely banded black pyritic shale. Bedding variable from 0 - 45°. Some folding visible. Pyrite is bedded and associated with minor carbonate veins.	140	100	600
111.0	114.0	3.0	3.0		T3891	As above	20	58	104
114.0	117.0	3.0	3.0		T3892	As above	28	86	106
117.0	120.0	3.0	3.0		T3893	Predominantly as above but with a few pyroclastic bands to crystal tuff size. Graded bedding at 120m has core angle of 10° and shows younging up the hole. There is considerable minor movement along joints and some depositional channelling.	8	46	96
120.0	123.0	3.0	3.0		T3894	Alternating bands crystal tuff and shale. Hairline fractures with carbonate and minor pyrite.	5400	400	290
123.0	126.0	3.0	3.0		T3895	As above. Shale fraction is predominantly pyroclastic under the lense. Pyrite as blebs and bedded.	44	52	88
126.0	129.0	3.0	3.0		T3896	Fine grained pink volcanic. Brecciated in part with disseminated pyrite where brecciated	20	50	68
129.0	132.0	3.0	3.0		T3897	As above	4	38	94
132.0	134.0	2.0	2.0		T3898	As above but brecciated. Trace pyrite	4	20	48
134.0	137.0	3.0	3.0		T3899	Predominantly grey chert but minor volcanic bands are present	6	16	38
137.0	140.0	3.0	3.0		T3900	Pink crystal tuff	6	20	68
140.0	143.0	3.0	3.0		T4301	As above.	6	36	94
143.0	146.0	3.0	3.0		T4302	Pink crystal tuff to lapilli tuff size. Pinkness is due to felspar or haematisation. Trace pyrite.	4	24	90
146.0	146.7	0.7	0.7		T4303	As above	4	18	88
146.7	149.0	2.3	2.3		T4304	Grey chert	4	16	100
149.0	152.0	3.0	3.0		T4305	As above	4	16	92
152.0	155.0	3.0	3.0		T4306	As above	2	12	48
155.0	157.7	2.7	2.7		T4307	As above	4	12	46
157.7	161.0	3.3	3.3		T4308	Fine grained green grey dacite with rhyolite	2	16	84
161.0	164.0	3.0	3.0		T4309	Pink and grey chert	2	16	56
164.0	167.0	3.0	3.0		T4310	Fine grained grey green dacitic tuff	2	18	98
167.0	171.0	3.0	3.0		T4311	As above	2	12	64
171.0	174.0	3.0	3.0		T4312	As above	4	18	82
174.0	177.0	3.0	3.0		T4313	Pink lapilli tuff	20	16	96
177.0	181.0	4.0	4.0		T4314	As above	4	18	112
181.0	184.0	3.0	3.0		T4315	Interbedded fine tuff and lapilli tuff	2	16	80
184.0	187.0	3.0	3.0		T4316	As above. Minor quartz veins 2%	2	14	68
187.0	190.0	3.0	3.0		T4317	As above. <1% quartz veining	2	16	72
190.0	193.0	3.0	3.0		T4318	Interbedded lapilli tuff, chert and agglomerate	4	14	66
193.0	196.0	3.0	2.8		T4319	As above	2	14	76
196.0	199.0	3.0	2.8		T4320	Grey green tuff to lapilli tuff	2	16	78

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT:

BOREHOLE No. SK 13 TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn
199.0	202.0	3.0	3.0		T4321	As above	2	16	74
202.0	205.0	3.0	3.0		T4322	As above	2	16	66
205.0	208.0	3.0	3.0		T4323	As above	4	16	70
208.0	210.5	2.5	2.5		T4324	As above	4	16	68
						End of hole			

084

143085

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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DIAMOND DRILL HOLE SK 12

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Sock Creek Area
Burnie Sheet SK 55-3

COMMODITY/IES: Lead and Zinc

TEXT PAGES NO: 4

PLAN NOS: Nil

TABLE NOS: Nil

APPENDICES: Nil

AUTHOR/S: D.B. Orr

DATE: November 1976

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

085

AUSTRALIAN ANGLO AMERICAN

DRILLHOLE LOG

Summary Sheet

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PROJECT	COMSTAFF PROPRIETARY LIMITED		**AREA** SOCK CREEK		**DRILLHOLE TYPE** Diamond
CO-ORDS	840m N 1160m E	**DEC^{LN}** -90°	**AZIMUTH** -	**RL**	**DH No.** SK 12
DATE COMMENCED	27.9.76	**DATE COMPLETED** 2.10.76	**DRILLED BY** Longyear	**DRILL RIG**	Longyear 44
Non Coring to:	-	**HQ Core to:** -	**NQ Core to:** 0 - 161m	**BQ Core to:** -	**EOH** 161.0m

SURVEY DATA

Instrument: Acid bottle

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0		-90°	Unknown				
160m	-88.5°	-88.5°	Unknown				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0 - 93.0m Quartz felspar porphyry			
93.0m - 102.0m Agglomerate of rhyolite in shale			
102.0m - 115.0m Crystal and lapilli tuff			
115.0m - 125.0m Agglomerate of rhyolite in shale			
125.0m - 153.0m Green sericitised tuff			
153.0m - 160.0m Agglomerate of carbonate and minor volcanics.			
160.0m - 161.0m Sericitised tuff.			

N.W.P.S.

Signature

Date 6.12.76

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143087

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: COMSTAFF PROPRIETARY LIMITED

BOREHOLE No. SK 12 TYPE Diamond Drill CO-ORDINATES 840m N 1160m E INCLINATION -90° DIRECTION

DATE START 27.9.76 DATE FINISH 2.10.76 LOGGED BY D. Orr DRILL Longyear 44 FINAL DEPTH 161.0m

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm) Cu	Pb	Zn
0	3.0	3.0	0.5		T3801	Weathered reddish brown porphyry. Phenocrysts of quartz and felspar.	4	20	78
3.0	6.0	3.0	2.3		T3802	As above, but partly fractured	4	20	74
6.0	9.0	3.0	2.6		T3803	As above, but phenoblasts are more numerous to give crystal tuff appearance.	2	24	102
9.0	12.0	3.0	2.3		T3804	As above. Minor quartz veining.	2	16	64
12.0	15.0	3.0	1.5		T3805	As above	2	18	56
15.0	18.0	3.0	3.0		T3806	Less weathered quartz felspar porphyry. Groundmass chloritic, felspars pinkish and euhedral, quartz milky and rounded.	2	14	36
18.0	21.0	3.0	3.0		T3807	Fresh quartz felspar porphyry. Felspars haematite-stained (?) to 3mm, quartz rounded to 5mm. Pervasive irregular hairline fractures throughout with manganese. Minor quartz veining which may reach up to 2cm width.	4	14	28
21.0	24.0	3.0	3.0		T3808	Alternating 20cm bands of pink and green porphyry. Minor veins of quartz with felspars.	2	16	50
24.0	27.0	3.0	2.8		T3809	Green quartz felspar porphyry with pervasive manganese in hairline fractures.	2	14	44
27.0	31.0	4.0	4.0		T3810	Grey green porphyry containing less felspar. Thin quartz veins at 62° and 42° to core axis.	2	14	38
31.0	33.0	2.0	2.0		T3811	Grey green quartz felspar porphyry. Quartz vein at 64°. Felspar and quartz phenocrysts to 5mm.	2	14	34
33.0	36.0	3.0	3.0		T3812	As above.	2	16	38
36.0	39.0	3.0	3.0		T3813	Pale grey green silicified porphyry. Both felspar and quartz phenocrysts are rounded.	4	20	26
39.0	42.0	3.0	3.0		T3814	Green quartz felspar porphyry. Creamy felspars to 2mm, rounded quartz to 5mm.	4	16	44
42.0	45.0	3.0	3.0		T3815	As above.	2	20	44
45.0	48.0	3.0	3.0		T3816	Alternating 1m wide bands of green and pink porphyry. Felspars not visible in pink porphyry.	2	16	36
48.0	51.0	3.0	3.0		T3817	As above.	2	14	36
51.0	54.0	3.0	3.0		T3818	Grey green quartz felspar porphyry. Phenocrysts to 5mm.	2	14	48
54.0	57.0	3.0	3.0		T3819	As above.	2	20	84
57.0	60.0	3.0	3.0		T3820	As above, but with ?large fragments to 15cm of silicified porphyry (bombs?).	28	18	64
60.0	63.0	3.0	3.0		T3821	Grey green quartz felspar porphyry.	6	20	44
63.0	66.0	3.0	3.0		T3822	As above.	10	14	36
66.0	69.0	3.0	3.0		T3823	As above but with pervasive fractures containing quartz veins from hairline to 5cm.	4	20	56
69.0	72.0	3.0	3.0		T3824	As above but quartz veining more pronounced.	4	16	76
72.0	75.0	3.0	3.0		T3825	As above. Quartz plus carbonate veining over last 2m. Carbonate = siderite?	4	32	104
75.0	78.0	3.0	3.0		T3826	Grey quartz felspar porphyry with only minor hairline quartz veins.	4	16	46
78.0	81.0	3.0	3.0		T3827	As above	6	26	66
81.0	84.0	3.0	3.0		T3828	Creamy col oured silicified quartz porphyry with quartz carbonate veining to 82.5m, then grey porphyry with large fragments to 15cm.	28	24	300

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT:

BOREHOLE No. SK 12 TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm) Cu	Pb	Zn
84.0	87.0	3.0	3.0		T3829	Grey quartz porphyry with a few scattered felspars. Some brecciation associated with carbonate veining at 84.1m.	18	20	94
87.0	90.0	3.0	3.0		T3830	Grey quartz felspar porphyry with quartz veining and brecciation at 89.5m	6	20	70
90.0	93.0	3.0	3.0		T3831	Grey quartz felspar porphyry. Quartz carbonate veining forming 15% of total rock.	4	34	250
93.0	96.0	3.0	3.0		T3832	Agglomerate (breccia?). Angular fragments of vein quartz, carbonate (siderite?), porphyry and rhyolite in pyritic shale matrix.	8	40	310
96.0	99.0	3.0	3.0		T3833	From 96.5m - 96.9m a pyritic shale has a 20° to core axis contact with porphyry, and over the last 2m becomes a finely banded pyritic shale. Compositional banding gives core angle varying from 0 - 45° to core axis. The entire section is intruded by hairline quartz carbonate veining. Some brecciation occurs.	32	250	470
99.0	102.0	3.0	2.8		T3834	Agglomerate. Shale matrix and carbonate veining to 99.8m, then fragments grey green quartz porphyry with a trace pyrite and one speck galena seen.	4	20	52
102.0	105.0	3.0	2.7		T3835	Lapilli tuff. Phenocrysts of felspar and quartz. Some pyrite aggregates to 2cm.	20	20	54
105.0	108.0	3.0	2.9		T3836	Crystal tuff with rounded quartz and felspar crystals giving a porphyritic appearance.	10	18	60
108.0	111.0	3.0	3.0		T3837	As above.	6	18	40
111.0	114.0	3.0	3.0		T3838	As above.	6	14	40
114.0	117.0	3.0	3.0		T3839	As above to 115m, then contorted pyritic shale.	12	30	140
117.0	120.0	3.0	3.0		T3840	Crystal tuff becoming lapilli size over last 0.5m.	10	20	200
120.0	123.0	3.0	3.0		T3841	As above to 121.5m, then pyritic shale to 122.1m, then agglomerate (breccia?). 122.1m - 122.5m: agglomerate consists of calcite fragments in shaley groundmass. From 122.5m - 123.0m shale fragments with calcite veins.	14	50	90
123.0	126.0	3.0	3.0		T3842	Shale fragments in carbonate to 125m, then fine green sericitic rock in carbonate.	14	50	46
126.0	129.0	3.0	3.0		T3843	Pink fine grained volcanic cut by network of carbonate veins. Carbonate forms 20% of total volume.	8	20	16
129.0	132.0	3.0	3.0		T3844	As above but becoming less pink towards 132m. Trace pyrite.	8	16	42
132.0	135.0	3.0	3.0		T3845	Fine grained green sericitic volcanic cut by carbonate veins forming 10% of volume.	8	24	190
135.0	138.0	3.0	3.0		T3846	As above. Trace pyrite.	4	30	150
138.0	141.0	3.0	3.0		T3847	As above.	6	36	190
141.0	144.0	3.0	2.8		T3848	Fine grained pink rhyolite with carbonate veins to 5cm. Some alteration associated with joints at 15° to core axis.	4	28	116
144.0	147.0	3.0	3.0		T3849	White sericitic rhyolite. Minor veining.	4	22	150
147.0	150.0	3.0	3.0		T3850	Fine grained pale green sericitic rhyolite.	4	16	48
150.0	153.0	3.0	3.0		T3851	As above. Agglomeritic in part.	4	20	106

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143089

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT:

BOREHOLE No. SK 12 TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm) Cu	Pb	Zn
153.0	156.0	3.0	3.0		T3852	Predominantly carbonate with minor fragments of volcanics.	6	30	16
156.0	159.0	3.0	3.0		T3853	As above with more volcanics.	8	26	18
159.0	161.0	2.0	2.0		T3854	As above to 160m, then grey fine grained sericitic volcanics.	6	22	64
						End of hole.			

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143090

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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DIAMOND DRILL HOLE SK 11 REDRILL

GRID COORDINATES: 920N, 1130E

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: Sock Creek Prospect (D.A.A.)
Burnie Sheet: SK 55-3

COMMODITY/IES: Lead and Zinc

TEXT PAGES NO: 3

PLAN NOS: Nil

TABLE NOS: Nil

APPENDICES: Nil

AUTHOR/S: E. Keane

DATE: April 1976

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

030

AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

143091

PROJECT	COMSTAFF PROPRIETARY LIMITED	AREA	SOCK CREEK
CO-ORDS	920N 1130E	DEC LN	-90°
AZIMUTH		RL	
DRILLHOLE TYPE	Diamond Drill		
DH No.	SK 11 Redrill		
DATE COMMENCED	3.4.76	DATE COMPLETED	5.4.76
DRILLED BY	LONGYEAR	DRILL RIG	LONGYEAR 38
Non Coring to:		HQ Core to:	
NQ Core to:	0 - 101m	BQ Core to:	
EOH	101m		

SURVEY DATA

Instrument: Eastman Kodak Single Shot

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
100m		-88°	315°M				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0.0m - 28.6m Crystal tuff			
28.6m - 31.7m Breccia	72.9m - 78.0m: 2.37% Zn; 0.31% Pb x	5.1m drilled thickness	
31.7m - 57.4m Crystal tuff			
57.4m - 65.8m Angular agglomerate with shale matrix	85.2m - 87.0m: 1.16% Zn; 2.33% Pb x	1.8m drilled thickness	
65.8m - 68.7m Carbonaceous shale			
68.7m - 72.9m Crystal tuff			
72.9m - 101m Pink quartz feldspar porphyry			
End of Hole			

Signature

Date

N.W.P.S.

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143092

APPENDIX 1.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: COMSTAFF PROPRIETARY LIMITED

BOREHOLE No. SK 11 Redrill TYPE Diamond Drill CO-ORDINATES 920N 1130E INCLINATION -90° DIRECTION

DATE START 3.4.76 DATE FINISH 5.4.76 LOGGED BY E. Keane DRILL Longyear FINAL DEPTH 101m

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm unless otherwise shown) Cu	Pb	Zn	Mo		
0	8.20	8.20	3.50		T1661	Weathered and broken rock. Silica rich crystal tuff with limonite staining along fracture surfaces. Quartz "crystals" in a silica/ chlorite matrix and cut by numerous quartz-carbonate (now dissolved) veins.	6	18	100			
8.20	11.20	3.00	3.00		T1662	As above for first 1.0m. Unweathered quartz feldspar (generally kaolinised), crystal tuff for remainder.	6	26	180			
11.20	14.20	3.00	3.00		T1663	Quartz feldspar crystal tuff, greenish (chlorite rich) in part and pinkish (feldspar rich) for rest. Cut by random quartz carbonate veins (ranging in width from fine threads to 10mm).	6	26	40			
14.20	17.20	3.00	3.00		T1664	As above	4	20	56			
17.20	19.00	1.80	1.80		T1665	As above	4	38	104			
19.00	22.30	3.30	3.30		T1666	As above	6	22	140			
22.30	25.50	3.20	3.20		T1667	As above	8	26	520			
25.50	28.60	3.10	3.10		T1668	As above. Over last 1.0m a very quartz, with associated carbonate, rich zone (possibly a vein). Fine colliform type structure to the honeyblende in association with galena.	24	3100	8000			
28.60	31.70	3.10	3.10		T1669	Breccia zone (?). Crystal tuff cut by numerous and random quartz carbonate veins (brecciated fragments of tuff contained within).	8	102	860			
31.70	34.90	3.20	3.20		T1670	Crystal tuff	6	44	300			
34.90	38.00	3.10	3.10		T1671	Crystal tuff	2	22	170			
38.00	41.10	3.10	3.10		T1672	Crystal tuff	6	22	120			
41.10	44.20	3.10	3.10		T1673	Crystal tuff. Fine random threads of honeyblende along veins and fractures.	10	62	7600			
44.20	47.20	3.00	3.00		T1674	As above. Some bands of honeyblende up to 10mm thick within quartz vein.	10	110	9000			
47.20	50.00	2.80	2.80		T1675	As above. The honeyblende, with colliform type structure, is associated with galena.	20	5500	1.35%			
50.00	53.10	3.10	3.10		T1676	Crystal tuff. Some honeyblende.	8	280	2400			
53.10	56.40	3.30	3.30	split	T1677	Crystal tuff	8	80	350			
56.40	57.40	1.00	1.00	core	T3701	Crystal tuff. Rare galena	4	42	180	2.0		
57.40	58.45	1.05	1.05	starts	T3702	Angular tuff fragments (upto 20mm) in a grey shale matrix.	8	200	360	0.5		
58.45	59.50	1.05	1.05		T3703	Angular agglomerate size fragments in a grey shale matrix. Fine whisps of honeyblende and galena along partings and veinlets.	6	900	1000	0.5		
59.50	60.50	1.00	1.00		T3704	As above	6	108	2200	0.5		
60.50	61.50	1.00	1.00		T3705	Agglomerate. Angular particles of tuff unbedded in shale matrix. Some quartz carbonate infilling.	6	150	500	0.5		
61.50	62.50	1.00	0.85		T3706	As above	6	150	370	0.5		
62.50	63.80	1.30	1.30		T3707	As above	6	150	510	1.0		
63.80	64.80	1.00	1.00		T3708	As above	6	60	300	1.0		
64.80	65.80	1.00	0.95		T3709	As above	4	170	400	0.5		
65.80	67.00	1.20	0.60		T3710	Friable carbonaceous shale - poor recovery.	20	470	390	1.0		
67.00	68.00	1.00	0.46		T3711	Angular fragments of grey/green cherty material in a carbonaceous matrix. In part friable carbonaceous material.	22	280	250	2.0		

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PROJECT:

BOREHOLE No. SK 11R TYPE CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

GRANGE

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE No.	DESCRIPTION	ASSAY RESULTS (in ppm unless otherwise shown) Cu	Pb	Zn	Mo
68.00	68.70	0.70	0.70		T3712	Black carbonaceous shale. At 68.50m fine tuffaceous material with random quartz carbonate veinlets. Visible galena and sphalerite.	210	850	2300	9.0
68.70	70.00	1.30	1.30		T3713	Crystal tuff. Broken core - possibly shear zone.	54	30	120	1.0
70.00	71.00	1.00	1.00		T3714	As above. Sheared	10	22	240	0.5
71.00	72.00	1.00	1.00		T3715	As above. Sheared	4	20	190	0.5
72.00	72.90	0.90	0.87		T3716	Sheared chloritic lapilli tuff	160	270	2300	0.5
72.90	73.70	0.80	0.72		T3717	First 0.4m quartz carbonate, sphalerite, chlorite, galena vein. Rest pink porphyry.	26	1200	2.00%	1.0
73.70	74.60	0.90	0.90		T3718	Pink porphyry tending to become more chloritic (therefore green) with random sphalerite veins (to 2mm).	16	76	9800	0.5
74.60	75.30	.70	0.70		T3719	Silicified green chloritic rock. Sheared with veins and blebs of sphalerite, quartz and quartz carbonate veinlets.	22	190	1.40%	1.0
75.30	76.40	1.10	1.10		T3720	Pink porphyry with random blebs and veins of sphalerite	46	200	1.90%	0.5
76.40	76.80	0.40	0.40		T3721	Pink porphyry. Last 0.2m, brecciated zone with angular quartz fragments in a sphalerite-galena-chlorite matrix.	190	3.55%	12.50%	0.5
76.80	78.00	1.20	1.20		T3722	Green porphyry with veinlets of sphalerite	24	70	1.30%	
78.00	79.00	1.00	1.00		T3723	Pink porphyry	8	100	1000	
79.00	80.00	1.00	1.00		T3724	As above.	4	78	140	
80.00	81.00	1.00	1.00		T3725	Chloritised quartz feldspar porphyry	10	30	80	3.0
81.00	82.00	1.00	0.97		T3726	As above	6	20	220	2.0
82.00	83.00	1.00	1.00		T3727	As above. Some sphalerite associated with a quartz vein	8	44	1100	1.0
83.00	84.00	1.00	1.00		T3728	As above	16	56	360	0.5
84.00	85.20	1.20	1.20		T3729	Chloritic quartz porphyry	38	300	540	0.5
85.20	86.00	0.80	0.80		T3730	Chloritic quartz porphyry invaded by 30mm quartz vein containing galena and lesser amounts of sphalerite	800	3.55%	4300	0.5
86.00	87.00	1.00	1.00		T3731	As above	430	1.35%	1.75%	1.00
87.00	88.00	1.00	1.00	end	T3732	Chloritised quartz porphyry	14	46	70	0.5
88.00	89.00	1.00	1.00	split	T3733	As above	66	100	360	0.5
89.00	90.00	1.00	1.00	core	T3734	As above. Quartz veining with some associated sphalerite	140	50	1200	0.5
90.00	94.80	4.80	4.80		T1678	Chloritised quartz porphyry feldspar with random quartz veining. Vugh with linings of aggregate of pyrite	32	64	84	
94.80	97.90	3.10	3.10		T1679	Chloritised quartz feldspar porphyry	94	28	120	
97.90	101.00	3.10	3.10		T1680	As above	48	30	76	
						End of hole				

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PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG SK 10

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

SOCK CREEK SK-55/3 902N 1026E

COMMODITY/IES:

Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E. REID

DATE: April 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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145055

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 10 | TYPE D.D.H. | CO-ORDINATES 902 N 1026 E | INCLINATION 60° | DIRECTION 089° mag.

DATE START 5.4.75 N.W.P.S. | DATE FINISH 17.4.75 | LOGGED BY E.REID | DRILL CO. LONGYEAR | FINAL DEPTH 248.25 m

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS
						0.00 m to 60.37 m Laminated dark graphitic pyritic shales. The compositional banding varies in colour (black to grey/greens) with texture (clay to silt sized grain-sizes) indicating it as bedding. Core angles average 45°. The rock is pervasively sheared and fractured with some shear directions predominant (e.g. Core angle 0°). Zones of heavier distortion exist, producing angular breccias whose matrix consists of a 'quartz, carbonate' association. The carbonates are usually Ankerite or calcite but sometimes siderite. Widespread minor (usually xeno)-tuffaceous intercalations occur with some scattered lapilli. These coarser bands contain visible (0.1 mm) pyrite crystals distributed around the phenocrysts through the finer tuff ground-mass. In the shales, however, sulphides are rarely visible (minute grain size) other than the uncommon 0.5 cm pyrite aggregates or small films of pyrite or galena observed on some shear surfaces. No sphalerite has been observed.	

To	Rec. metres	Sample metres		whole core	Sample number		Cu	Pb	Zn	(ppb) Hg	Ba
		1	0.17		T1501		46	300	60	210	310
		2	0.17		T1502		30	170	38	125	310
2.10	0.35	3	0.81		T1503		90	420	82	405	300
3.95	1.62	4	0.88		T1504		54	270	88	215	270
		5	0.89		T1505		48	240	140	165	220
5.45	1.34	6	0.99		T1506		62	180	170	115	230
7.00	1.65	7	1.06	0.50	T1507		112	1100	430	475	270
		8	1.07		T1508		98	1400	3700	605	300
8.50	1.60	9	1.07	0.30	T1509		38	300	170	190	250
9.75	1.33	10	1.02		T1510	10.00 m - Lower limit of bleaching of core (oxidation of graphite).	28	300	130	160	270
		11	0.89		T1511		140	1950	7200	1100	260
		12	0.89		T1512		110	1350	4200	670	320
12.80	2.72	13	0.93	0.40	T1513		116	1350	3900	640	320
		14	1.08		T1514		190	900	2900	310	280
14.90	2.28	15	1.06	0.60	T1515		84	750	2700	440	300
		16	0.83		T1516		88	510	1800	240	310

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK10 TYPE ..... CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

FROM TO	REC m.	DRILLED METRES per sample	REC. METRES per 1m sample	whole core m.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
		17	0.83		T1517		70	240	700	90	260
17.05	1.78	18	0.99		T1518		40	320	2600	275	290
		19	1.00		T1519	19.5 m Depth to which limonite (after pyrite?) is found on shear surfaces.	160	410	9200	1000	320
19.70	2.67	20	1.00	0.90	T1520		32	430	2600	245	330
		21	1.00		T1521		20	480	780	245	310
		22	1.00		T1522		58	460	820	275	300
		23	1.00		T1523		70	750	2300	350	320
23.15	3.43	24	1.04	3.0	T1524		78	520	4600	385	320
		25	1.05		T1525		80	540	2800	410	320
		26	1.05		T1526		90	600	3000	460	330
26.20	3.20	27	1.01	1.0	T1527		84	510	1100	255	330
		28	1.00		T1528		86	360	760	150	320
		29	1.00		T1529	29.4 m Upper level of shear veins containing a soft vitreous greenish	56	120	550	45	270
29.23	3.05	30	0.98	1.7	T1530	mineral often with a boxframework-like habit (possibly siderite).	74	480	1300	320	300
		31	0.98		T1531		92	700	2200	330	360
		32	0.98		T1532		80	460	1700	145	320
32.30	3.01	33	0.99	1.4	T1533	33.4 - 33.95, 35.8, 36.3, 37.00-37.40, Crystal to xenotuff intercalations.	90	1000	3700	530	340
		34	1.00		T1534	Crystal fragments (K? feldspar) up to 2x2 mm.	48	390	1600	230	430
		35	1.00		T1535		66	750	2300	295	360
35.35	3.05	36	1.00	2.0	T1536		68	900	3400	295	330
		37	1.00		T1537		70	560	3400	305	350
		38	1.00		T1538		62	410	2500	195	390
38.40	3.04	39	0.97	2.2	T1539		70	420	740	80	310
		40	0.95		T1540	40.1 m Upper limit of Ankeritic shear infillings.	60	200	1000	155	300
		41	0.95		T1541	41.3 m Green pyritic tuff band 15 cm. Core Angle 45°.	82	92	700	130	280
41.45	2.90	42	0.79	2.7	T1542	42.2 m to 44.2 m Carbonate (mainly Ankerite) leached shears (core angle	92	120	350	105	340
		43	0.65		T1543	0°) containing pyrite crystal aggregates: minor Galena can be found.	70	320	900	245	310
		44	0.65		T1544		108	1490	3000	55	310
44.50	2.00	45	0.81	1.2	T1545	45.8 m & 48.5 m Tension (?) gashes in shale, filled with Ankerite.	118	550	3000	300	380
		46	0.97		T1546	(core angle 0°).	70	350	720	185	470
		47	0.97		T1547		150	850	4500	n420	450

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 10 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

Depth To	Rec. int.	DRILLED METRES per sample	REC. METRES per 1m sample	Whole core	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS (ppb) Cu	Pb	Zn	Hg	Ba
~~47.55~~	~~2.95~~	~~48~~	~~0.92~~	~~2.9~~	T1548	~~48.6 m to 54.0 m Porous shales leached of carbonate shear fillings. The~~	~~68~~	~~550~~	~~1400~~	~~135~~	~~400~~
		~~49~~	~~0.85~~		T1549	~~leached shales containg veins about 0.8 cm thick of a white mineral of~~	~~96~~	~~560~~	~~6200~~	~~460~~	~~370~~
		50	0.85		T1550	fibrous habit (fibres ⊥ vein) which appear to be Quartz pseudomorphous	88	360	3200	305	390
50.60	2.60	51	0.87	2.3	T1551	after another mineral.	140	470	9000	900	330
		52	0.89		T1552		106	1500	5600	435	360
		53	0.89		T1553		102	220	460	240	320
53.65	2.72	54	0.91	2.4	T1554		86	98	430	190	320
		55	0.96		T1555	55.5 to 56.7, 57.6 to 57.9, 59.75 to 59.85. Porous, carbonate leached	68	220	2900	275	330
		56	0.96	T	T1556	shales.	66	310	2600	295	350
56.70	2.92	57	0.96	2.9	T1557	56.75 m small (0.5 cm) distorted band of crystal tuff (core angle ~40°)	78	1050	2500	320	320
		58	0.96		T1558	containing 15% secondary pyrite with some galena. Sharp contact with	58	290	740	185	410
		59	0.96		T1559	volcanics below.	116	250	1100	160	420
59.75	2.94	60.37	1.31	2.9	T1560		32	200	940	145	360
CHIPPED CORE SAMPLES FOLLOW											
62.80	2.90				T4066	60.37 m to 81.20 m Bedded grey green tuffs gradationally varying in	10	70	220	40	750
65.85	3.02				T4067	grainsize from fine grained tending to vitreous textures (e.g. 60.37 m to	10	88	104	25	850
68.90	2.98				T4068	62 m) down to coarse grained crystal tuffs (e.g. 80 to 81.20 m grainsize	8	460	104	25	600
71.95	2.97				T4069	~ 2 mm).	6	170	280	35	750
75.00	2.96				T4070	Bedding angles are 45° ± 10°. (Ankerite/Calcite) millimeter veinlets	8	20	330	45	700
78.05	3.00				T4071	whose core angles are ≤ 20° may contain Galena and/or sphalerite, (e.g.	12	24	1300	135	650
81.10	3.00				T4072	65.5, 70.5 and 78 m). Pyrite aggregations ≤ 0.5 cm diameter occur	8	24	50	20	700
83.00	1.89				T4073	sporadically. Some minor brecciated zones exist (e.g. 72.50 m).	6	34	940	150	600
						This unit is terminated at 81.20 m (core angle 25°) by an intrusive					
						contact with					
						81.20 m to 83.40 m Coarse Quartz-feldspar porphyritic dacite.					
						Carbonate veined, brecciated and containing rafts of crystal tuff.					
~~CUT CORE SAMPLES~~											
83.00	1.00	84	1.00		T1561	83.40 m to 87.00 m Finely laminated Graphitic pyritic shales containing	28	78	460	80	490
84.15	1.16	85	1.02		T1562	intercalations of chloritic meta crystal tuff (feldspar phenocrysts ≤ 1 cm)	18	76	100	75	560
		86	1.02		T1563	Fine graimed bedded pyrite laminae occur. Bedding core angles vary from	14	44	150	165	480
87.20	3.09	87.20	1.02		T1564	80 to 45° (usually the latter) but the shales are highly distorted in	12	46	350	255	360
						places.. The ubiquitous veinlets ≤20° core angle are locally displaced					
						by shearing (core angle 90-80°).					

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

DRILL HOLE No. SK 10 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS (ppb) Cu	Pb	Zn	Hg	Ba
Depth	Rec.	per sample	per 1m sample	Whole core							
CHIPPED CORE SAMPLES											
90.25	3.03	90.25			T4074	87.00 m to 91.55 m Agglomerate of Quartz/feldspar porphyritic dacite	10	40	76	35	700
93.30	3.00	93.30			T4075	within coarsening crystal tuff. Fragments of porphyritic rock are large	6	32	260	35	600
96.35	3.06	96.35			T4076	(about 20 cm) and rounded. Crystal rhombs (about 4 mm) of feldspar	4	30	100	20	650
99.40	3.02	99.40			T4077	within tuff matrix are noted to be sub-parallel to agglomerate fragments..	6	20	44	15	600
102.45	3.00	102.45			T4078	91.55 m to 236.25 m	4	24	70	5	550
105.50	3.06	105.50			T4079	Coarse grained vitreous crystal dacite with Quartz and feldspar phenocrysts	6	26	94	25	550
108.00	2.44	108.00			T4080	up to 0.8 cm across. Bedding is indistinct (40° in places e.g. 104.90).	22	32	7600	640	550
CUT CORE SAMPLES						Movement has occured along the plane core angle about 20°. This shear					
		109	0.98		T1565	zone is represented all down the core by millimeter veins of (carbonate	20	32	>1%	2150	430
		110	0.98		T1566	/Quartz) (at 94 m by a talc veinlet). At 94.2 - 94.7 m a finer tuff	16	26	660	120	460
		111	0.98		T1567	intercalation occurs followed by a breccia (rounded particles) of this tuff	8	30	340	65	430
111.60	3.56	112	0.98		T1568	in the coarser crystal tuff matrix. From 108 m to 121 m the carbonated	20	30	840	160	400
		113	0.99		T1569	veinlets contain visible sphalerite and also galena and chalcopyrite.	52	40	2700	185	450
		114	0.99		T1570	(Traces of sulphides can be seen up to 100 m) Partial chloritization is	22	62	1040	175	440
114.65	3.01	115	0.99		T1571	widespread. Feldspar alteration occurs in varying degrees.	46	60	470	90	440
		116	0.99		T1572	Some porphyritic (quartz, feldspar and a green chloritic pseudomorphic	96	44	4100	450	520
		117	1.00		T1573	mineral) volcaniclastics microscopically identified as Ignimbrites.	12	62	250	55	510
117.70	3.03	118	1.00		T1574	e.g. 159.75 to 166.85 m which seem to show shard keels amongst crystal	28	64	2700	310	500
		119	1.00		T1575	fragments. These zones may also be selectively chloritized acid	220	70	~1%	1000	450
		120	1.00		T1576	volcanics. Rhyolites occur at 190.5 to 191.5 m, 192 to 192.5 m, 193.8 to	34	46	2100	220	420
120.75	3.04	121	1.00		T1577	195.6 m, 204 to 204.3 m.	18	56	1300	135	390
CHIPPED CORE SAMPLES						The porphyritic core from 108 to 111.5 m contains a number of millimeter					
123.75	3.01				T4081	veinlets of (Quartz,Ankerite) Core angle ~75°.	4	30	420	55	400
126.75	3.17				T4082		6	24	200	35	550
129.75	3.06				T4083		24	20	40	10	410
132.75	3.05				T4084		210	58	112	45	350
135.80	3.11				T4085		18	24	88	30	360
138.85	3.04				T4086		10	20	64	20	450
141.90	3.09				T4087		14	24	80	30	480
144.95	3.06				T4088		10	20	48	20	360
148.00	3.05				T4089		16	14	24	15	750
151.05	3.04				T4090		4	16	20	20	750

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK10 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. DATE FINISH LOGGED BY DRILL FINAL DEPTH

Depth TO	Rec. int	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS (ppb) Cu	Pb	Zn	Hg	Ba
151.05											
154.00	3.05				T4091		12	18	56	15	1050
157.00	3.06				T4092		42	20	62	20	1650
160.00	3.01				T4093		8	14	50	15	1850
162.00	2.00				-						
163.05	1.10			1.00	T4094		40	18	36	20	1900
166.10	3.05			3.00	T4095		6	14	38	25	2250
169.15	3.10			2.90	T4096		4	16	48	15	2650
172.20	3.12			3.12	T4097		16	24	84	20	2300
175.25	3.01				T4098		10	18	56	20	1650
177.15	1.97				-						
178.30	1.11				T4099		10	20	64	20	800
181.35	2.93				T4100		8	14	36	15	240
184.40	3.10				T4101		18	12	30	5	200
187.45	3.25				T4102		10	14	34	10	230
190.50	3.03				T4103		16	20	32	5	190
192.00	1.60			1.00	-						
193.55	1.62			1.6	T4104		6	16	22	10	170
196.60	3.15			3.00	T4105		10	20	40	15	150
199.65	3.05			2.80	T4106		10	16	28	15	170
202.70	3.00			3.00	T4107		6	16	36	15	200
204.10	1.53			0.5	T4108		6	16	28	10	140
205.75	1.25			0.5	-						
208.80	3.18			1.8	T4144		30	20	42	55	270
211.85	3.08			3.00	T4145		14	16	46	35	330
214.90	3.10			3.10	T4146		24	16	52	30	310
215.57	2.63				T4147		20	14	66	35	300
220.70	3.22				T4148		10	14	48	35	370
223.80	3.08				T4149		24	14	60	25	360
226.90	3.10				T4150		14	14	76	30	600
229.95	3.07				T4151		10	14	48	40	1100
233.00	3.04				T4152		16	16	52	30	1100
236.05	2.97				T4153		12	16	48	35	900

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 10 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

Depth TO	Rec. INT	DRILLED METRES	REC. METRES	Whole Core	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS (ppb) Cu	Pb	Zn	Hg	Ba
CUT CORE SAMPLES											
236.05						236.25 m to 248.25 m					
		237	1.06		T1578	Sheared and brecciated porphyritic dacite containing keels and rafts of	8	20	82	30	220
		238	1.06		T1579	pyritic graphitic shale. (236.05 - 237.85, 239.2 - 239.6, 245.1 - 247.2,	12	40	170	45	410
		239	1.06		T1580	247.85 - 248.15). The shales (with their characteristic variety of meta	10	32	270	60	340
239.10	3.20	240	1.01		T1581	crystal tuff intercalations) occupy zones orientated at about 10° core	18	70	130	75	280
		241	1.00		T1582	angle and are associated with (quartz carbonate) veining. This malange	22	16	34	45	400
		242	1.00		T1583	is thus another manifestation of the shear zone core angle $\leq 10°$.	20	16	28	40	390
242.15	3.06	243	1.01		T1584	Secondary recrystallised pyrite is found at the interface of shale	18	14	34	35	430
		244	1.04		T1585	fragments and the crystal matrix.	20	12	18	30	300
		245	1.04		T1586		16	14	40	30	390
245.20	3.12	246	1.01		T1587		32	58	580	90	650
		247	1.00		T1588		28	90	310	75	490
248.25	3.05	248.25	1.25		T1589		26	30	48	45	330
						END OF HOLE					

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

PROJECT	E.L. 5/63 SOCK CREEK	AREA	TASMANIA	DRILLHOLE TYPE	D.D.H.
CO-ORDS	902N 1026E	DEC^{LN} 60°	AZIMUTH 089°	RL	DH No. SK 10
DATE COMMENCED	5.4.75	DATE COMPLETED	17.4.75	DRILLED BY	LONGYEAR
DRILL RIG					
Non Coring to:		HQ Core to:		NQ Core to: 14.90 m	BQ Core to: 248.25 m
EOH	248.25 m				

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
125		58	090				
167		56	090				
218		53.5	093				
248		51	093				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0.00 m to 60.37 m			
Laminated Graphitic Pyritic Shales with minor meta tuff inter-	Microcrystalline dispersed pyrite.	~5% Pyrite	42 m
calations.	Fine grained secondary pyrite and minor galena on shear surfaces.	< 1% Galena	42 m
		1% Pyrite	
	Occasional ovoid 1 cm aggregates of Py.	< 1% Pyrite	42 m
60.37 m to 81.20 m			
Bedded grey/green tuffs.	Sphalerite & Galena in Calcite/Ankerite/	<1% Galena	14 m
	Quartz veins Core Angle 20°.	<1% Sphalerite	
81.20 m to 83.40 m			
Quartz feldspar Porphyritic dacite.			
83.40 m to 87.00 m			
Laminated pyritic graphitic shales with intercalations of meta	Dispersed and laminated pyrite	~5% Pyrite	3 m
crystal tuff.			
87.00 m to 91.55 m			
Brecciated porphyritic rock in fine tuff.			
91.55 m to 236.25 m			
Porphyritic dacite containing minor rhyolitic units	Sphalerite and Galena in Ankerite/Calcite	~1% Sphalerite	10 m
	/Quartz veins	<1% Galena	
236.25 m to 248.25 m			
Sheared and brecciated porphyritic dacite containing rafts of	Dispersed primary pyrite and fine grained	1% Pyrite	8 m
pyritic graphitic shale.	secondary pyrite in shale rafts.		

Signature | Date

N.W.P.S.

143101

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E.L. 5/63 SOCK CREEK D.D.H. SK 10

1. INDICATED VALUES OF ORE

1% Zn cut off

108.0 m - 109.0 m	1.25% Zn;	<0.01% Pb;	<0.01% Cu;	x	1.0m D.T

0.05% Metal cut off

10.0 m - 11.0 m	0.72% Zn;	0.20% Pb;	0.01% Cu;	x	1.0 m D.T
18.0 m - 19.0 m	0.92% Zn;	0.04% Pb;	0.02% Cu;	x	1.0 m D.T
35.0 m - 36.0 m	0.34% Zn;	0.90% Pb;	<0.01% Cu;	x	1.0 m D.T
48.0 m - 52.0 m	0.60% Zn;	0.07% Pb;	0.01% Cu;	x	4.0 m D.T
105.5 m - 109.0 m	0.90% Zn;	<0.01% Pb;	<0.01% Cu;	x	3.5 m D.T
118.0 m - 119.0 m	0.85% Zn;	<0.01% Pb;	0.02% Cu;	x	1.0 m D.T

2. CORE RECOVERY

metres drilled 248.25 m
percentage recovery 100%

3. WATER TABLE

Not recorded.

4. CASING LEFT IN HOLE

Nil.

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

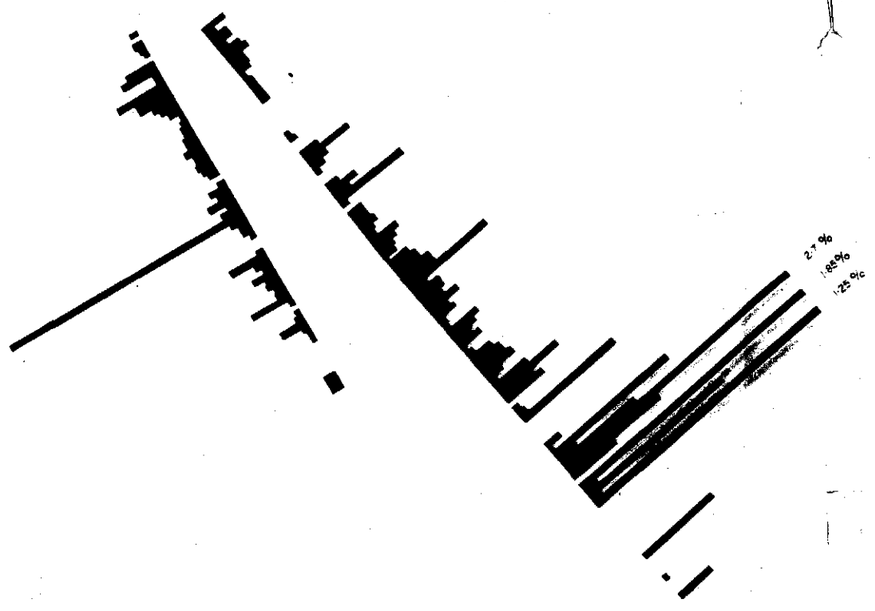
D.D.H.s SK 2 & 10 SECTION

COPPER HISTOGRAMS

DRAWN	COMPILED	SCALE	
J.H. 11/75		H=1:1000,V=1:2000ppm	TAS/2/834

103

143104



5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

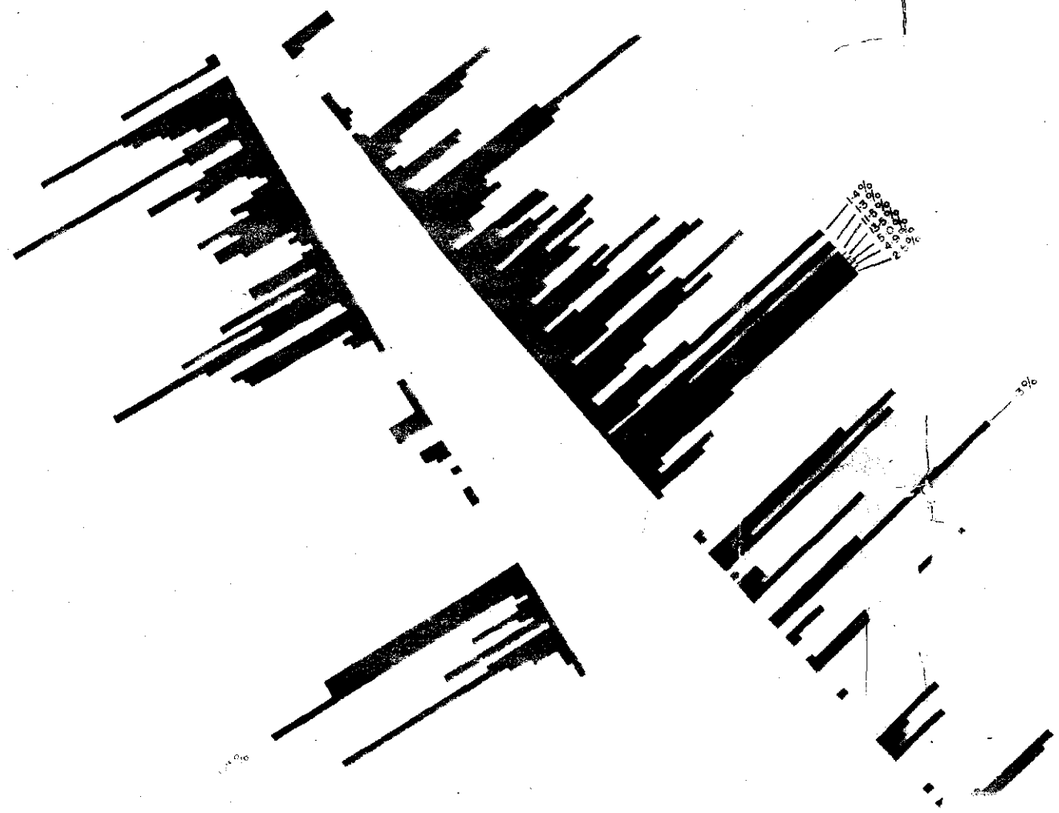
D.D.H.s SK2 & 10 SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		H=1:1000 V=1:2000ppm	TAS/2/835

104

143105



5 cm

COMSTAFF PROPRIETARY LIMIT

SOCK CREEK PROSPECT

DDH.s SK2 & 10 SECTION

ZINC HISTOGRAMS

DRAWN	COMPILED	SCALE
J.H. 11/75		H=1000ft=1200ppm

105

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SK10
90° mag./60° dip
900N/1025E

SK2
90° mag /50° dip
905N/1035E

1100E

Carbonaceous shale with bands of light grey shale and traces of sphalerite & galena

Medium grained brown haematised crystal tuff (?)
Breccia of rhyolite fragments and containing quartz crystals (agglomerate)
Trace of sphalerite present
Carbonaceous mudstone with traces of galena, sphalerite and chalcopyrite
Breccia (agglomerate) of pink quartz porphyry
Carbonaceous shale containing a trace of sphalerite
Same as for 81.59m to 82.94m
Minor breccia due to shearing of pink quartz porphyry and carbonaceous shale. 25 - 5% galena
Green quartz-feldspar porphyry
Same as for 81.59m to 82.94m
Carbonaceous shale and minor contorted green quartz porphyry. Trace of sphalerite present
Grey quartz porphyry containing numerous xenoliths(?) of black shale
Breccia of brown to green quartz porphyry (or vitric crystal tuff)
and a trace of galena
Brown to green quartz porphyry containing in places up to 8% sphalerite and up to 5% galena in a stockwork of quartz carbonate

7.62m
x5m

1.25% Zn x 1m

Brown to green quartz - feldspar porphyry containing in places up to 2% sphalerite and up to 5% galena

Shear at 30° to ore zones

Shear zone containing contorted sheared carbonaceous shale, sericitised green quartz porphyry and grey chert

Grey chert sheared to a lesser extent than the shear zone

Fine dark green volcanic(?) which has been normalized and chloritised

Laminated graphitic pyritic shales with minor metatuff intercalations. ~ 5% Py & trace Sph

Bedded grey-green tuff

Quartz feldspar porphyritic crystal tuff
Laminated pyritic graphitic shales with intercalations of meta-crystal tuff ~ 5% Py
Brecciated porphyritic crystal tuff

Aphanitic or coarse vitreous xenotuff containing minor rhyolite units ~ 1% Sp < 1% Sn

Sheared & brecciated porphyritic containing rafts of Pyritic graphitic shale ~ 1% Py

E.O.H 217m

E.O.H 248.25m

5 cm

1 : 1000

0 20 40 60 80

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H^S SK2 & SK10 – SECTION

DRAWN 8.75 A.J & J.K	COMPILED RNS	SCALE 1:1000	TAS-2-825

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143107

aac

PROJECT NAME: COMSTAFF, PROPRIETARY LIMITED

TITLE: DRILL LOG SK 9

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

SOCK CREEK SK-55/3 1320N 1277E

COMMODITY/IES:

Cu, Pb, Zn

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E. Keane

DATE: April 75

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

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PROJECT	E.L. 5/63 SOCK CREEK	AREA	TASMANIA	DRILLHOLE TYPE	D.D.H.
CO-ORDS	1320N 1277E	DEC[LN]	50°	AZIMUTH 270°	RL
DH No.	SK 9				
DATE COMMENCED	20.3.75	DATE COMPLETED	3.4.75	DRILLED BY	[illegible]
DRILL RIG					
Non Coring to:		HQ Core to:		NQ Core to:	BQ Core to:
EOH	146.00				

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0	50°		270°	~~146~~	~~41°~~		~~276.5°~~
25	48°		272°				
50	45.5°		273				
75	43		275°				
100	41°		276°				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0.00 m - 4.55 m Altered porphyritic rhyodacite. Barite veinlets. Scattered aggregates of pyrite.			
4.55 m to 73.20 m Altered porphyritic rhyolite. Quartz and quartz-carbonate veining. Some pyrite aggregates.			
73.20 m to 77.20 m Lapilli tuff. Sheared in part.			
77.20 m to 89.30 m Black carbonaceous mudstone. Sheared, broken core. Carbonate inclusions.			
89.30 m to 89.30 m Altered lithic vitric-crystal tuff. Carbonate veinlets. Pyrite aggregates.			
89.30 m to 103.70 m Crystal tuff. Chloritised. Quartz-carbonate veining.			
103.70 m - 108.70 m Shear zone. Vitric-crystal tuff.			
108.70 m - 117.70 m Vitric crystal tuff. Carbonate veinlets.			
117.70 m - 146.00 m Porphyrite (quartz-feldspar phenocrysts). Quartz veinlets.			
146.00 m END OF HOLE			

N.W.P.S.

Signature | Date

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE NQ AND BQ (FROM 12.20)

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~XXXXX~~ ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ag ppb	Ba
0	2.75	2.75	2.51	91.27	T4201	0 - 2.75 T338 **Described in thin section as:- Weakly altered, weakly stressed porphyritic rhyodacite.**	16	20	48	35	350
2.75	4.55	1.80	2.07	115.0	T4202	2.75 - 4.55 As above. - pale green with feldspar laths (to 5mm) and rhombs (amygdules?) of quartz. For the 1st 2.75m these quartz rhomb are often rimmed or outlined with iron staining. The rock is cut by fine, irregular iron stained hairline fractures and some barite veinlets. Flecks of a darker mineral, possibly chlorite, some aggregates of pyrite and rare sphalerite.	20	20	48	30	320
Petrographic sample T339 described as: Weakly altered porphyritic sodic rhyolite.						4.55 - 6.65 (T339) Iron staining less evident. Apparent banding (bedding?) of the groundmass into pale and darker green zones (CA = 42°). Scattered pyrite aggregates throughout.					
4.55	7.45	2.90	3.44	118.62	T4203	6.65 - 7.45 Sheared zone, fragmented in part (CA = 30°)	20	16	48	30	230
7.45	8.85	1.40	1.69	120.71	T4204		20	14	46	20	220
Petrographic sample T340 described as: Weakly altered stressed porphyritic sodi-Potassic rhyolite.						7.45 - 10.00 T340 Sheared zone, rock very fragmented. Pale green rock as above. Crystal components smaller (feldspar laths approximately 2mm). Some irregular vugs (2mm).					
8.85	12.20	3.35	4.03	120.29	T4205	10.00 - 12.20 T341 **Described in thin section as:- Weakly altered, weakly stressed porphyritic sodi-potassic rhyolite.**	20	16	50	25	250
12.20	15.25	3.05	2.44	80.00	T4206	12.20 - 18.30	28	16	58	35	190
15.25	18.30	3.05	3.02	99.02	T4207	Vitric crystal tuff. Dark green matrix supporting crystals of feldspar and quartz 2 -3mm long. Cut pyrite fractures (CA = 42°) at times showing a partial infilling of crystalline quartz. In others completely filled by quartz showing zonal or accretionary structure. Scattered by crystals and aggregates some sericitization of the feldspars (?)	20	18	54	15	300
18.30	21.35	3.05	3.42	112.13	T4208	18.30 - 21.35 As previously becoming finer grained. 19.30 - 20.50. Fine grained vitric crystall tuff, silica rich with a cherty appearance. Cut by irregular quartz veins (up to 2mm thick). Sericitised and chloritised with films of pyrite along fracture surfaces. 20.50 - 21.35. Sheared zone, fragmented rock.	20	18	58	30	260

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

APPENDIX 1.

143110

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

DRILLHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE SAMPLE IN ANGLE	SAMPLE NO.	DESCRIPTION	Cu	Pb	ASSAY RESULTS Zn	Hg (ppb)	Ba		
21.35	24.40	3.05	2.97	97.38	T4209	21.35 - 24.40 Vitric crystal tuff with feldspar and quartz components up to 3mm. within a dark green matrix. Some specks and films of a darker mineral, possibly chlorite. Irregular vugs, the largest 1.5cm and infilled with crystalline quartz. Cut by random quartz veins (up to 2mm thick). Carbonate (not calcite) a rare component within some of the quartz veins.	14	14	50	45	170		
24.40	27.45	3.05	3.04	99.67	T4210	24.40 - 27.45 Vitric crystal tuff as previously.	18	18	74	35	130		
27.45	30.50	3.05	2.96	97.05	T4211	27.45 - 30.50 " " " " "	20	20	56	30	250		
30.50	33.55	3.05	3.19	104.59	T4212	30.50 - 33.55 " " " " "	22	22	60	20	170		
33.55	36.60	3.05	3.15	103.28	T4213	33.55 - 36.60 " " " " " becoming more silica rich and cherty in appearance. Cut by numerous hair-line, carbonate filled fractures, and wisps of a darker mineral (possibly chlorite). Feldspar crystals pinkish.	32	28	72	x	220		
36.60	39.60	3.00	3.35	111.67	T4214	36.60 - 39.60 Vitric crystal tuff - sheared and fragmented dark green rock, Cut by numerous and intermarking quartz veins (up to 1cm thick) and quartz-carbonate (not calcite) veins	20	20	60	10	190		
39.60	42.70	3.10	3.19	102.90	T4215	39.60 - 42.70 T342 - Altered, thoroughly stressed porphyritic sodic rhyolite As previously.	26	18	58	40	160		
42.70	45.75	3.05	3.07	100.66	T4216	42.70 - 45.75 As previously.	20	20	70	20	230		
45.75	48.80	3.05	3.11	101.98	T4217	45.75 - 48.80 As previously.	18	20	60	20	250		
48.80	51.85	3.05	3.08	100.98	T4218	48.80 - 51.85 Crystal tuff - grey green. Cut by numerous hairline fractures along which films of a darker mineral (chlorite?) are concentrated. Numerous quartz and quartz/carbonate veins (up to .5cm). Some scattered pyrite.	16	20	48	35	350		
51.85	54.75	2.90	2.81	96.90	T4219	51.85 - 54.75 First 1m fine grained tuff, silica rich with a cherty appearance, pale brown/green. Sheared in part and cut by some well defined quartz veins - up to 2cm with irregular vugs and infilling of crystalline quartz. Inter-meshing of carbonate within some of the quartz veins.	20	18	44	30	430		

Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1.

PROJECT: SOCK CREEK

BOREHOLE No. SK9 | TYPE DDH | CO-ORDINATES | INCLINATION | DIRECTION

DATE START | DATE FINISH 22.8.75 | LOGGED BY | DRILL | FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~SAMPLE~~ ANGLE	SAMPLE NO.	DESCRIPTION	Cu	Pb	Zn	Hg ppb	Ba		
							ASSAY RESULTS						
54.75	57.95	3.20	3.28	102.50	T4220	54.75 - 57.95	18	20	38	20	240		
						As previously. From 57.00 - 57.95. Breccia. Angular fragments (approx 1cm) of fine volcanic material within a stockwork of a carbonate mineral (not calcite), crystalline along some fracture surfaces. Scattered pyrite aggregates.						
57.95	61.00	3.05	3.02	99.02	T4221	57.95 - 61.00 T327	14	20	46	30	280		
T327	Described as: Brecciated,					To 58.60 Breccia as previously. 58.60 - 61.00 Vitric crystal tuff, grey							
altered, sheared,		porphyritic		sodic		green cut by quartz and quartz/carbonate veinlets. Last 0.5m brecciated							
rhyolite.						with angular fragments within a stockwork of carbonate material.							
61.00	64.05	3.05	3.07	100.60	T4222	61.00 - 64.05	14	20	42	20	160		
						Vitric crystal tuff, with some pinkish feldspar crystals, becoming finer grained and cut by numerous carbonate (with subordinate quartz) veins.							
64.05	67.10	3.05	3.04	99.67	T4223	64.05 - 67.10	12	18	60	10	120		
						First 0.75m a sheared zone, pale pinkish tuff. Remaining section dark grey/green crystal tuff with some pinkish feldspar laths. Chloritised. Two apparent sets of veins or veinlets. One set, generally the more defined, (up to 6mm wide) consists of quartz/carbonate. (CA = 70°). This set is at times off set by fine, hairline veinlets (CA = 32°). Rare pyrite and sphalerite aggregates.							
67.10	70.15	3.05	3.01	98.69	T4224	67.10 - 70.15	18	18	44	20	90		
						Crystal tuff - dark grey green with pinkish feldspar crystal and free silica. Carbonate veining less consistent (CA = 80°). Sheared zone at 67.60m with carbonate veining.							
70.15	73.20	3.05	3.03	99.34	T4225	70.15 - 73.20	18	16	34	20	80		
						As previously. Very mottled, with some darker chloritic rich areas, some pinkish and some grey cherty bands - possibly an agglomerate. Two sets of ill defined carbonate veins (fine hairline). One set (CA = 70°) is offset by second generation (CA = 37°).							

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APPENDIX 1.
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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

DRILLHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. CORE SIZE BQ DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE RECOVERY INTO ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg (ppb)	Ba
					T1429	73.20 - 74.20	20	14	30	75	230
						Lapilli tuff. Fine grained pinkish cherty particles in a dark, chloritic(?) matrix with a preferred alignment (CA = 65°). This grade into a dark grey/ green crystal tuff which has varying, irregular bands of colour and may be in fact, an agglomerate. Somepyrite aggregates.					
					T1430	74.20 - 75.20	24	14	42	30	100
						Lapilli tuff/agglomerate. Dark grey green, mottled with pinkish and milky crystals. Some pyrite aggregates. Fine carbonate veins (CA = 55°).					
73.20	76.25	3.05	3.04	99.67	T1431	75.20 - 76.25	18	20	56	50	110
						Lapilli tuff. Pale cherty-like (T328) particles in a dark threaded matrix. Pyrite aggregates.					
					T1432	76.25 - 77.20	30	200	1100	130	170
						76.25-76.50 Lapilli tuff, very contorte.					
						76.50-76.80 Sheared broken cone. Stockwork of carbonate with fine thread of tuffaceous material.					
						76.80-76.96 Mudstone. Dark grey friable.					
						76.96-77.20 Lapilli tuff - a mottled collection of carbonate, carbonaceous and volcanic materials.					
					T1433	77.20 - 78.20	40	1000	3000	285	270
						Black carbonaceous mudstone, Friable and contorted with irregular carbonate inclusions.					
76.25	79.30	3.05	3.00	98.36	T1434	78.20 - 79.30	32	260	1600	275	220
						As previously.					
					T1435	79.30 - 80.30 T329	32	310	1700	165	280
						79.30-79.60 Black mudstone.					
						79.60-80.00 Sediment consisting of consolidate ash particles with specks of dark greenish (chlorite) material. Some random carbonate veinlets. Aggregates of pyrite.					
						80.00-80.30 Mudstone/ash/carbonate mixture. Broken core.					

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

DIAMOND DRILL HOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~SAMPLE~~ ~~AND~~ ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1436	80.30 - 81.30	38	90	520	80	340
						80.30-80.90 Black carbonaceous mudstone. Contorted and sheared, with carbonate and chlorite.					
						80.90-81.30 As for T329. Altered mineralised weakly stressed lithic-vitric-crystal tuff.					
79.30	82.35	3.05	3.13	102.62	T1437	81.30 - 82.35	20	28	280	70	500
						As for T329. Bedding defined by variation in colour of the fine sediment and slumping and thus off setting of the bedding apparent.T330. Over last 0.35m carbonate content increases - in form of veins (generally three sets; one more defined and showing accretionary structure (2mm thick CA = 80°) another fine hairline set with CA = 50°, and the others completely random) and as a component of the sediment.					
					T1438	82.35 - 83.30	18	22	310	75	480
						As for 329 with bands of more carbonaceous rich material. "Bedding" contorted and slumped and ill defined. Pyrite aggregate.					
					T1439	83.30 - 84.30	30	190	900	155	370
						As previously with a sheared zone over 1st 0.50m. This grades into a more carbonaceous rich sediment and develops into a black mudstone. Pyrite content increases in the mudstone.					
82.35	85.40	3.05	2.99	98.03	T1440	84.30 - 85.40	30	104	800	155	300
						Black carbonaceous mudstone, cut by random carbonate veinlets and containing pyrite aggregates.					
					T1441	85.40 - 86.30	22	44	280	90	240
						85.40-85.70 As previously.					
						85.70-86.30 A mottled collection dark green (chloritic) material within a pale yellow green matrix with milky quartz and greyish feldspar crystals throughout and containing some carboniferous material. Carbonate veins completely random.					

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

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PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
T331 - Described as: altered					T1442	86.30 - 87.30 T331	16	30	160	55	300
fractured weakly sheared lithic-						Sheared and broken rock consisting of "areas" of black carbonaceous					
crystal tuff.						mudstone intermeshed with a chloritised and sheared crystal tuff.					
85.40	88.45	3.05	2.97	97.38	T1443	87.30 - 88.45	10	62	550	110	330
						87.30-87.60 Lapilli tuff. Pinkish feldspar and milky quartz within a dark chloritic carboniferous matrix. Carbonate veining CA = 42°.					
						87.60-88.45 Black carbonaceous mudstone with irregular carbonate veining.					
					T1444	88.45 - 89.30	20	48	1080	155	290
						Interbanding of chloritised crystal tuffaceous material with black carbonaceous mudstone.					
					T1445	89.30 - 90.30	14	22	28	40	320
						Lapilli tuff - pinkish, silica rich with a cherty appearance, with a fine intermeshing of darker material and cut by random quartz/carbonate veins. This grades into a crystal tuff with pinkish crystals within a fine grey matrix. Carbonate/quartz veins (up to 2cm thick) generally with CA = 42°.					
88.45	91.50	3.05	3.04	99.67	T1446	90.30 - 91.50	14	20	46	35	280
						Crystal tuff. Pinkish feldspar crystals within a fine grey matrix. This grades into an agglomerate with wide (0.20m) areas of pinkish, chert-like material. Carbonate veining throughout.					
					T1447	91.50 - 92.30	24	20	60	30	230
						As previously.					
					T1448	92.30 - 93.30 T332:- Altered, weakly stressed, ?lithic-vitric-crystal	36	40	270	55	190
						Lapilli tuff. tuff.					
91.50	94.45	2.95	2.93	99.32	T1449	93.30 - 94.45 As for T332.	16	32	150	55	200
						Mottled, sheared in part with strong quartz/carbonate veining within shear.					

Abbreviations: m = metre(s)
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mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE SAMPLE INCL. ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1450	94.30 - 95.30	10	24	58	40	230
						As previously.					
					T1451	95.30 - 96.30	16	32	110	60	270
						Irregular "bands" of pinkish crystal tuff and contorted black mudstone.					
						Chloritization throughout and carbonate veining completely random.					
94.45	96.85	2.40	2.38	99.17	T1452	96.30 - 96.85 T333	16	18	270	50	230
						Crystal tuff. Collection of pinkish crystals with wisps or threads of a					
						darker (chlorite) mineral. Random carbonate veining.					
					T1453	96.83 - 97.30 T333 :- Devitrified altered stressed "rhyolitic" ?tuff lava.	14	12	36	40	210
96.85	98.20	1.35	1.37	101.48	T1454	97.30 - 98.20 T333	18	20	74	45	240
						Becoming more greenish in zones.					
					T1455	98.20 - 99.20	22	40	62	35	210
						As previously.					
					T1456	99.20 - 100.20	20	30	110	40	250
						As previously with some carbonaceous bands.					
98.20	100.65	2.45	2.40	97.96	T1457	100.20 - 100.65	26	40	210	55	350
						As previously.					
					T1458	100.65 - 101.20	16	84	190	60	320
						Sheared zone. Crystal tuff, fragmented. Yellow/green and cut by a					
						network of quartz veinlets.					
					T1459	101.20 - 102.20	18	32	56	30	290
						As previously.					
					T1460	102.20 - 103.20 As for T333.	20	14	34	40	350
100.65	103.70	3.05	3.16	103.61	T1461	103.20 - 103.70	20	16	740	85	320
						As previously.					

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Abbreviations: m = metre(s)
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mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1.

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PROJECT: SOCK CREEK

DRILL HOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~EXCESS~~ ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg ppb	Ba
					T1462	103.70 - 104.70	24	20	120	50	320
						As previously. Oxidised (reddish) on exposed surface. Sheared.					
					T1463	104.70 - 105.40 As for T333.	20	28	120	55	290
						Sheared.					
103.70	106.75	3.05	2.87	94.10	T1464	105.40 - 106.75	20	40	230	40	240
						Very sheared and fragmented pale green crystal tuffaceous material inter-					
						bedded with carbonaceous mudstone.					
					T1465	106.75 - 107.70	24	30	250	45	290
						As previously. Oxidised (reddish) on exposed surface.					
					T1466	107.70 - 108.70 T334:- Altered weakly sheared lithic-vitric-crystal tuff (?ignimbrite).	16	30	106	35	250
106.75	109.80	3.05	2.98	97.70	T1467	108.70 - 109.80 As for T334	36	30	170	55	230
						Carbonaceous mudstone bands. Intense carbonate veining which appears					
						"weathered" and vuggy on some fracture surfaces.					
					T1468	109.80 - 110.70	12	28	110	60	280
						As previously.					
					T1469	110.70 - 111.70	10	22	66	50	240
						As previously.					
109.80	112.75	2.95	2.87	97.29	T1470	111.70 - 112.75	14	30	150	40	210
						Lapilli tuff. Pinkish feldspar crystals and quartz imbedded in a black					
						carbonaceous matrix. Random quartz/carbonate veining. Chloritised in part.					
					T1471	112.75 - 113.70	12	30	130	50	280
						As previously becoming more agglomeritic; pinkish feldspar - quartz "blocks"					
						within a matrix of black carbonaceous material and quartz - feldspar					
						crystals.Sheared in part.					

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Abbreviations: m = metre(s)
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mm = millimetres

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START N.W.P.S. CORE SIZE BQ DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~SAMPLE~~ ~~XXX~~ ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1472	113.70 - 114.70	12	22	64	40	270
						Vitric crystal tuff. Pinkish with an intermeshing of fine, dark coloured					
						veinlets (possibly carbonaceous and or chlorite). Few random carbonate					
						veinlets.					
112.75	115.90	3.15	3.19	101.27	T1473	114.70 - 115.90	8	30	60	55	220
						As previously.					
					T1474	115.90 - 116.70	10	30	72	50	230
						As previously.					
					T1475	116.70 - 117.70	12	26	72	45	260
						As previously.					
115.90	118.95	3.05	2.75	90.16	T1476	117.70 - 118.95 T335	10	16	36	35	340
						Pinkish silica rich rock, very like a quartz porphyry, with two sets of					
						quartz veins: one, the 1st generation and off set by the second (CA = 50°)					
						has a CA = 85°. Both show accretionary type structures. Some specks of					
						barite.					
					T1477	118.95 - 119.70	12	14	18	45	160
						As previously.					
					T1478	119.70 - 120.70	10	16	48	40	210
						Quartz-feldspar porphyry. Fine grained pinkish to pinkish grey. Irregular					
						and sparse carbonate veining.					
					T1479	120.70 - 121.70	6	36	82	50	190
						As above grading into a more coarsely crystalline rock and having a darker					
						(carbonaceous) matrix in part.					
118.95	122.00	3.05	2.92	95.74	T1480	121.70 - 122.00	4	16	30	35	170
						As previously.					

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ~~SAMPLE~~ ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
					T1481	122.00 - 123.70	10	20	60	35	160
						As previously grading into a very silica rich amorphous pinkish (chert like) rock over last 0.30m. Cut by numerous and random quartz and quartz carbonate veinlets.					
122.00	124.90	2.90	2.94	101.38	T4226	123.70 - 124.90	14	18	40	25	240
						Porphyry as previously. Irregular banding of pinkish and mid grey zones. Set of quartz/carbonate veins with CA = 52°. Another with CA = 20°.					
						124.90 - 125.10					
						Sheared zone. Chloritised and sericitised. Oxidised on exposed surface (reddish).					
124.90	128.05	3.15	2.93	93.02	T4227	125.0 - 128.05	14	20	46	30	190
						As for 123.70 - 124.90.					
128.05	131.00	2.95	3.01	102.03	T4228	128.05 - 131.00	12	18	52	45	170
						As previously.					
131.00	133.75	2.75	2.82	102.03	T4229	131.00 - 133.75	12	20	76	35	140
						As previously - irregular bands of pinkish quartz-feldspar porphyry, with threads of a darker mineral throughout (chlorite?) and a quartz-feldspar porphyry with a chloritic carbonaceous matrix. Quartz-carbonate veining throughout 132.70 - 133.00 shear zone, chloritised and fragmented.					
133.75	134.20	0.45	0.75	166.67	T4230	133.75 - 134.20	12	20	62	30	160
						Quartz-feldspar porphyry, pinkish interlaced with threads of chloritic? material. Quartz-carbonate veining irregular.					
134.20	137.00	2.80	2.88	102.86	T4231	134.20 - 137.00	10	24	88	15	210
						As previously very sheared and broken core to 135.40m. From 135.40 - 135.80m quartz/feldspar phenocrysts in a dark chloritic carbonaceous matrix. Pinkish quartz-feldspar porphyry to 137.00.					

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Abbreviations: m = metre(s)
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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK9 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	CORE ORIENTATION ANGLE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
137.00	140.30	3.30	2.96	89.70	T4232	137.00 - 140.30	22	18	34	35	380
						Quartz-feldspar porphyry - predominantly pink in zones grading into a light grey imbedded with pink feldspar phenocrysts. Phenocrysts becoming smaller over last 0.50m.					
140.30	143.35	3.05	3.14	102.95	T4233	140.30 - 143.33	12	14	28	20	230
						As previously.					
143.35	146.00	2.65	2.71	102.26	T4234	143.33 - 146.00	14	18	40	30	220
						As previously.					

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E..L. 5/63 SOCK CREEK D.D.H. SK 9

1. INDICATED VALUES OF ORE

All values less than 0.05%.

2. CORE RECOVERY

metres drilled	146.0
percentage recovery	100 %

3. CASING LEFT IN HOLE

[redacted]. / CASING SHOE.

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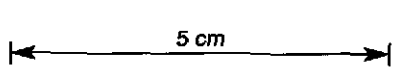


COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK9 SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	TAS/2/852
J H		H 1000V=2000ppm	

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK 9 – SECTION

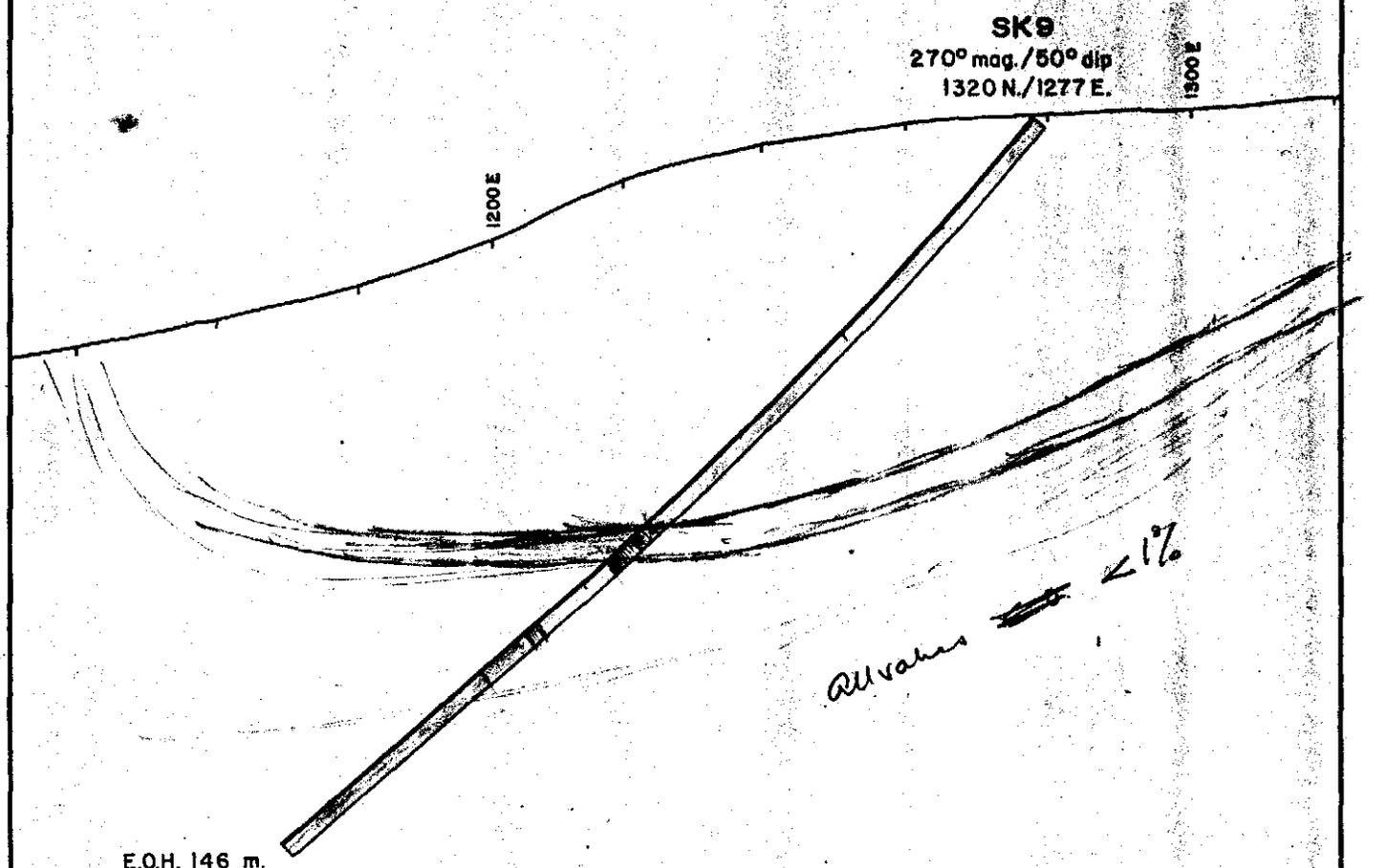
ZINC HISTOGRAMS

DRAWN J.H. 11/7

COMPILED

SCALE

/85



5 cm

1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK9 — SECTION

DRAWN	COMPILED RNS	SCALE 1 : 1000	TAS/2/

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aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG SK 8

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:
SOCK CREEK SK-55/3 1240N 1253E

COMMODITY/IES:
Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E.REID

DATE: March 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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AUSTRALIAN ANGLO AMERICAN LIMITED

DRILLHOLE LOG

Summary Sheet

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PROJECT	E.L. 5/63 SOCK CREEK	AREA	TASMANIA
CO-ORDS	1240N 1260E	DEC LN	45°
AZIMUTH	270° mag	RL	
DRILLHOLE TYPE	D.D.H.	DH No.	SK 8
DATE COMMENCED	21.3.75	DATE COMPLETED	30.3.75
DRILLED BY	LONGYEAR	DRILL RIG	
Non Coring to:	HQ Core to:	NQ Core to:	BQ Core to:
EOH	150.00 m		

SURVEY DATA

Instrument: Down hole Camera

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0	45°		270°
25	45°		271.5°
50	43°		273°
75	40.5°		276°
98	40.5°		276.5°

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
E.O.H. 150 (H.F. bottle etching method value corrected for "capilliarity".)		39.5°	no film

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
See page 3			

Signature

Date

N.W.P.S.

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 8 TYPE D.D.H. CO-ORDINATES 1240N 1253E INCLINATION -45° DIRECTION 270°

DATE START 20.3.75 DATE FINISH 30.3.75 LOGGED BY E. REID DRILL CO. LONGYEAR FINAL DEPTH 150.00 m

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	ppb Hg	Ba		
Drilled depth	Rec. Int.	sample depth		Whole core									
0.00						0.00 m to 14.25 m							
6.10	2.02			1.10	T4154	Weathered quartz feldspar porphyritic dacite. Two species of phenocryst	10	20	60	85	490		
7.32	0.91				T4155	occur (a) Rhombs (up to 0.6 cm edge) of sericitised, simple twinned K.	8	20	42	40	340		
8.50	0.92			0.60		feldspar and (b) Ovoid intergrowths of Quartz and feldspar (up to 1 cm							
10.36	1.74					diameter).							
12.50	2.94				T4156	14.25 m to 16.85 m	8	22	50	25	440		
14.25	2.73	15.25	1.18		T3363	A section of undistorted pyritic graphitic silts and shales (bedding core	26	62	52	70	280		
15.25	1.18	16.25	1.09		T3364	angle about 75°) flanked by 15 cm of weathered fragmented porphyritic crystal tuff/top	30	104	140	55	250		
						and bottom (no clear contact core angle). Minor intercalations of							
						pyritic fine to medium grainsized greywackes occur within the shale.							
						Jointing planes exist throughout; the major core angle groupings are							
						≤20°, ~45°, ~75°-90°.							
18.89	3.70			3.00	T4157	16.85 m to 80.60 m	10	30	60	60	390		
21.94	3.02			3.02	T4158	Tuffaceous arenites and argillites. Bedding core angles often indistinct	16	50	80	45	380		
24.38	2.76			2.50	T4159	(70°±20°), but strongly evident in places. Graded bedding at 19.8 m and	16	64	200	50	450		
27.43	2.85			2.50	T4160	22.15 m both suggest down hole facings of this unit, probably indicating small scale folding. / The following lith-	18	24	38	55	510		
32.61	5.00			5.00	T4161	ologies are present: Fine poorly bedded tuff (e.g. 16.85 m to 17.60 m),	22	30	70	40	300		
34.12	1.84			1.84	T4162	Coarse lapilli containing tuff (30 m to 37 m), lapilli tuff (32.70 m),	12	46	58	45	340		
37.72	3.35			2.80	T4163	Chert (22.15 m to 22.35 m), Agglomerate (41.85 m). Shear veinings of	14	44	94	50	410		
40.25	2.45			2.20	T4164	quartz (or cavities after Carbonate/Quartz above 40 m depth) and Ankerite,	38	150	290	95	90		
42.67	2.30			2.00	T4165	Calcite Quartz are prevalent. The core angles of these veins are	20	60	310	45	120		
46.32	3.72			3.60	T4166	grouped as for the preceeding unit. General Quartz Carbonate stock-	20	54	320	55	130		
51.20	4.96			4.96	T4167	working occurs below 45.3 m with occasional flecks of galena showing.	34	190	420	60	190		
55.47	3.61			2.00	T4168	Some portions (e.g. 17.8-18.3, 44.8-45.3, 66.4-69.4 m) are coarse	16	52	220	35	120		
58.52	3.15			3.15	T4169	porphyritic crystal tuffs. Definite tectonic	20	56	350	45	100		
61.56	3.08			3.08	T4170	brecciation occurs in places (e.g. 73.3 m: Tuff in Ankerite matrix)	10	50	290	55	140		
64.61	2.79			2.79	T4171	whilst acid volcanic autobrecciation is suspected in places (e.g. 30.6 -	38	50	220	45	240		
67.66	3.03			3.03	T4172	34.5). Disrupted pyritic graphitic shales occur from 70.00-70.71 m	14	38	160	40	150		
70.71	0.71	0.70	0.71	0.71	T3365	(core angle 70°) containing visible galena as well as pyrite. The last	24	200	280	90	240		
70.00	2.76			2.76	T4173	4 metres is sheared and chloritised adjacent to the succeeding porphyritic	12	22	68	25	130		
73.76	2.93			2.00	T4174	unit. The last 30 cm is a distorted pyritic graphitic shale band.	10	48	250	50	140		
76.30	3.08				T4175		8	36	150	35	140		

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 8 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

Depth TO	Rec Int	DRILLED METRES	REC. METRES	Whole core	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
76.30											
79.85	2.35				T4176		22	90	170	40	120
80.30	0.45				T4177		14	108	370	50	180
80.60	0.30		0.30	0.30	T3366	80.60 m to 150.00 m	200	1.80%	1.40%	730	270
82.90					T4178	Quartz feldspar porphyritic dacite. The first one metre is quartz	72	90	840	105	160
85.95	2.67			0.40	T4179	veined and fractured. This unit is similar to the first unit.	36	82	390	55	170
89.90	2.93			2.93	T4180	The fine rock interphenocrystal	160	580	170	35	190
92.04	3.16				T4181	matrix is often partially altered (chloritised?) (e.g. 120-121, 122.4-	92	24	480	45	160
95.09	3.20			3.00	T4182	122.6). In this state the rock bears visual similarity with crystal	32	26	60	25	190
98.14	2.97			2.97	T4183	tuff bands in the preceeding sediment unit. Quartz, Ankerite, Calcite	26	30	56	35	190
100.59		2.52		2.30	T4184	veining occurs (core angles as in the above units).	12	24	70	35	250
100.90	0.45			0.45		From 104.55 m to 120 m sulphides occur in veins (with or without -					
103.95					T4185	Ankerite, Calcite, Quartz -) up to 6 cm true width. Sulphide vein core	20	56	110	40	240
105.95	3.07	105	1.01	3.07	T1590	angles are predominantly 75°-90° with minor veins (thinner and with more	38	110	5000	390	250
106		106	1.01		T1591	gangue) at more acute angles. Individual veins often contain ore	420	360	3100	210	230
107.00	3.08	107	1.01	1.70	T1592	sulphide predominant, thus 104.8, 107.1, 119.6 - Sphalerite (trace	150	96	7000	620	360
108		108	0.98		T1593	galena); 118.42 Galena (very minor sphalerite); 108.1 Pyrite.	250	110	1.10%	770	240
109.00		109	0.98		T1594	Chalcopyrite reaches its greatest concentration with Sphalerite (sulphide	22	16	86	30	170
110.00		110	0.98		T1595	volume ratio about 1/3) at 111.75 to 112.10 m.	20	22	140	35	190
111.00	2.99	111	1.11	1.40	T1596	Grades: 104.55 m to 107.10 m ~1% Sphalerite, trace Galena.	46	32	440	55	360
112.00		112	1.12		T1597	111.5 m to 112.10 m ~5% Sphalerite, 2% Chalcopyrite,	3300	1300	2.70%	3500	390
113		113	1.12		T1598	~1% Galena.	30	26	640	90	260
114		114	1.00	0.30	T1599	118.00 m to 120 m ~2% Galena and Sphalerite.	20	26	96	20	210
115		115	0.99		T1600		44	16	74	10	220
116		116	0.99	T	T3357		52	34	58	20	240
117	3.01	117	1.02	2.30	T3358		66	200	94	25	260
118		118	1.03		T3359		74	70	86	20	180
119		119	1.03		T3360		210	4.0%	3200	280	210
120	3.19	120	1.00	3.19	T3361		270	0.82%	0.95%	25	220
121		121	0.99		T3362		24	60	140	35	250
122.30	1.30			1.30	T4186		24	20	54	20	190
125.35	3.01			3.01	T4195		20	20	240	70	250
128.40	3.07			3.07	T4187		32	48	420	80	520

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APPENDIX 1. 143128

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 8 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

Depth To	Rec. Int	DRILLED METRES	REC. METRES	Whole Core	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS ppb Cu	Pb	Zn	Hg	Ba
128.40											
131.45	3.10			3.10	T4188		16	96	80	45	310
134.50	3.13			3.13	T4189		16	20	210	75	230
137.55	3.04			3.04	T4190		12	20	92	35	370
140.60	3.05			3.05	T4191		50	30	58	25	320
143.65	2.97			2.97	T4192		12	20	44	20	240
146.70	3.05			3.05	T4193		16	24	60	35	350
149.75	3.00			3.00							
150.00	0.30			0.30	T4194		8	16	50	30	310
						END OF HOLE					
						~~DRILL LOG SUMMARY~~	Py	Sph	Gn	Cpy	true width
						0.00 m to 14.25 m Quartz feldspar porphyritic dacite.	5%				1.8 m
						14.25 m to 80.60 m Tuffaceous arenites and argillites - well to poorly bedded ranging in grainsize from clay to agglomerate, sporadically intercalated with porphyritic crystal dacite.					
						Sulphide mineralisation occurs as:-					
						(a) Fine to very fine grained pyrite lamellae and dispersion in pyritic graphitic shale and siltstone bands, also containing some visible galena.	5%		trace		0.6 m
						(b) Traces of galena and sphalerite in -Quartz/Carbonate- veins pervading the core, below a down hole depth of 40 metres.		trace	trace		35 m
						80.60 m to 150.00 m Quartz-feldspar porphyritic dacite. Sulphide mineralisation occurs as - veins up to 6 cm wide often accompanied by carbonate (calcite, ankerite) and quartz. Trace quantities of galena and sphalerite occur throughout, whilst (104-120 m) down hole depth has more abundant mineralisation. Sulphide mineral segregation occurs often restricting a vein to one sulphide mineral.					
						Overall grades (104-120 m) downhole depth:-	~1%	~1%	<1%	<1%	12 m
						CORE RECOVERY					
						metres drilled: 150.00					
						metres recovered: 145.33					
						percentage recovery: 96.8%					

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143129

E.L. 5/63 SOCK CREEK D.D.H. SK 8

1. INDICATED VALUES OF ORE

1% and 0.5% Metal cut off

				D.T.
80.3 m to 80.6 m	1.40%Zn;	1.80%Pb;	0.02%Cu;	x 0.3 m
107.0 m to 108.0 m	1.10%Zn;	0.01%Pb;	0.03%Cu;	x 1.0,m
111.0 m to 112.0 m	2.70%Zn;	0.13%Pb;	0.33%Cu;	x 1.0 m
118.0 m to 120.0 m	0.64%Zn;	2.42%Pb;	0.02%Cu;	x 2.0 m

2. CASING LEFT IN HOLE

2 x 3 m NW casing.

129.

143130

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

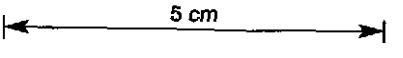
D.D.H. SK6 SECTION

LEAD HISTOGRAMS

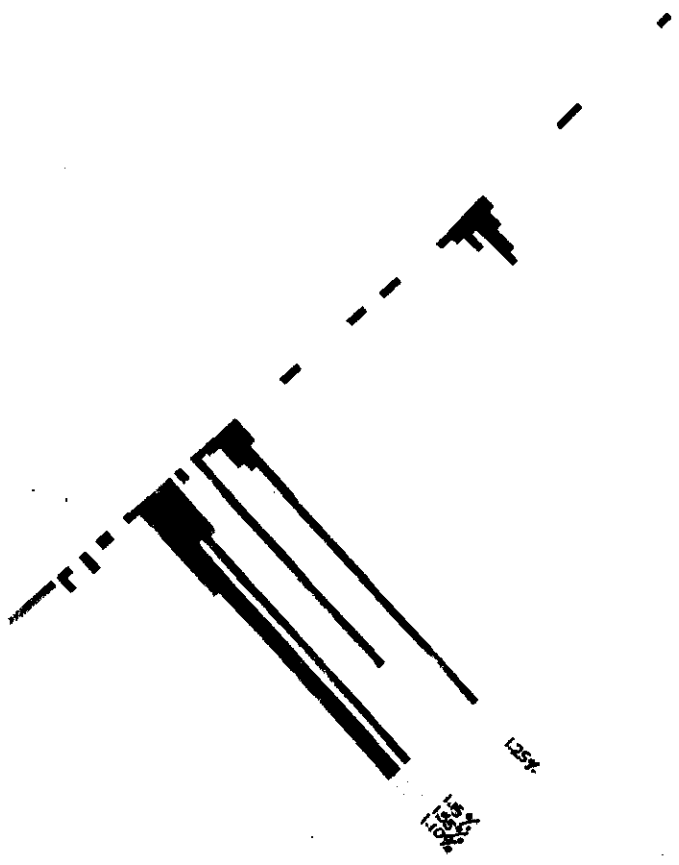
DRAWN	COMPILED	SCALE	
J.H 11/75		H=1000V=2000ppm	TAS/2/844

130

143131



COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT D.D.H. SK6 SECTION COPPER HISTOGRAMS			
DRAWN J.H. 11/75	COMPILED	SCALE H=1000'/V=12000ppm	TAS/2/843



5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

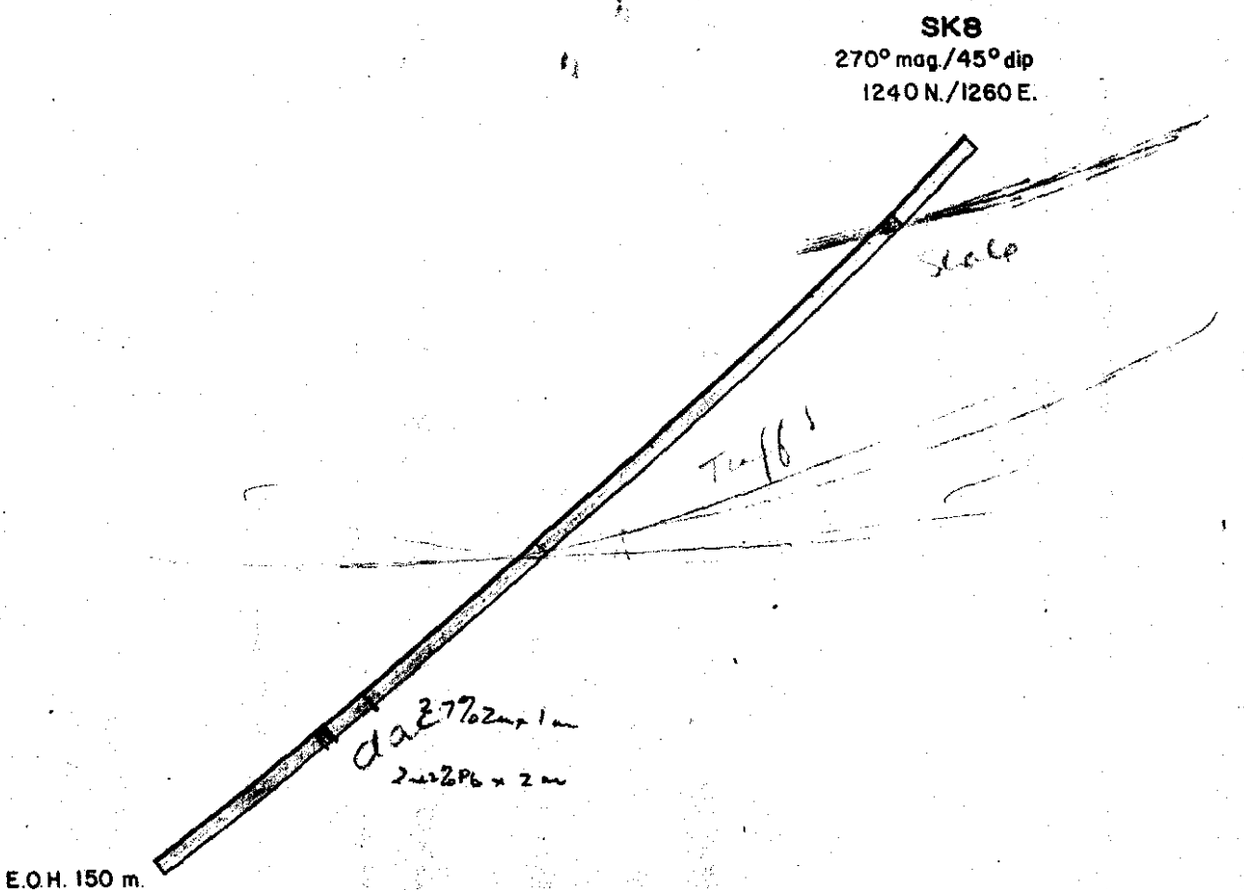
DDH. SK6 SECTION

ZINC HISTOGRAMS

DRAWN	COMPILED	SCALE	TAS/2/81
J.H. 11/75		1:500, V=1:2000ppm	

132

143133



5 cm

1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK8 — SECTION

DRAWN	COMPILED	SCALE	
	RNS	1 : 1000	TAS/2/

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143134

aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG SK 7

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:

SOCK CREEK SK-55/3 678N 1000E

COMMODITY/IES:

Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E. Reid

DATE: March 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 7 | TYPE D.D.H. | CO-ORDINATES 678N 1000E | INCLINATION 45° | DIRECTION 100°

DATE START 14.3.75 N.W.P.S. | DATE FINISH 20.3.75 | LOGGED BY E.REID | DRILL CO. LONGYEAR | FINAL DEPTH 150.26

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
0.00	5.49	5.49	1.29	5.49	T3446	0.00 m to 7.00 m Bleached ferruginous quartz crystal porphyritic dacite	18	50	100	120	150
	6.71	1.22	0.87	1.22	T3447	with millimeter clay pseudomorphs after feldspar. Poor planation	20	56	98	70	120
	8.00			1.29	T3348	(bedding?) core angle = approx. 45°.	18	76	98	105	130
	8.53	1.82	1.50			7.00 m to 9.00 m Bleached fine tuffs or siltstones. Rock is cleaved	16	42	104	75	100
	9.00			1.00	T3449	by surfaces (probably leached carbonate veins) of core angles ~20°, ~60°.					
	9.80			0.80	T3450	9.00 m to 9.80 m Laminated dark grey shales, siltstones and tuffs	34	260	140	155	180
	10.06	1.53	2.63			locally bleached, with bedding core angles of approx 60°. Bedding sur-					
	11.00			1.20	T3451	faces are distorted competantly by a profusion of smaller shears (core	20	82	160	85	90
	11.58	1.52	1.52			angle ≤ 20°). Fine limonitic tracings subparallel to both shears and					
11.00	12.20			1.20	T3452	bedding deliniate leached carbonate veins.	18	44	150	45	70
	13.11	1.53	1.53			9.80 m to 12.20 m Kaolinized crystal to xenotuffs. Vague bedding					
12.20	13.20			1.00	T3453	surfaces, core angle ~60°, are supported by the occasional parallel	16	44	240	90	120
13.11	15.33	1.22	1.31			silty band. A shear (core angle = 0°) at 10.7 m exhibits a 10 cm					
13.20	14.33			1.13	T3454	maximum apparent displacement.	14	40	240	70	100
14.33	15.30			0.97	T3455	12.20 m to 15.33 m Drop Volcanic boulder agglomerate in a shaley matrix.	16	28	180	75	100
14.33	16.15	1.82	2.00			The porphyritic volcanic fragments are quite sericitized but retain their					
15.30	16.15			0.85	T3456	texture.	14	24	260	55	70
16.15	17.00			0.85	T3457	14.33 m to 15.00 m Leached veined silicified siltstones and shales with	14	40	420	65	90
17.00	18.00			1.00	T3458	bedding core angles of ~60°. (quartz, carbonate) Veins have two distributions: core angles	16	24	200	30	90
18.00	19.20			1.20	T3459	subparallel with bedding, and ≤ 30°.	14	26	190	20	120
16.15	19.20	3.05	2.50			15.00 m to 15.30 m Angular breccia of above unit (clast size ≤ 3 cm) in					
19.20	20.20			1.00	T3460	a green altered crystal dacitic matrix.	18	32	240	35	110
19.20	20.42	1.22	1.34			15.30 m to 21.20 m Very coarse feldspar crystal dacite.					
20.20	21.20			1.00	T3461		16	42	230	55	130
21.20	21.60			0.40	T3462	21.20 m to 21.60 m Zone of highly distorted quartz and siderite veined	22	76	260	40	150
20.42	22.25	1.83	1.47			dark argillites with minor crystal dacites. Bedding core angle is 60°.					
21.60	22.80			1.20	T3463	21.60 m to 22.60 m Tensional shear core angle 0° juxtaposing former unit	16	86	510	30	200
22.80	23.70			0.90	T3464	with succeeding dacite unit. Parallel carbonate veins accompany the shear.	20	40	250	35	600
23.70	24.60			0.90	T3465	Relative movement 1 metre, but weak slickensides (core angle 45°) suggest	16	36	130	35	600
24.60	25.50			0.90	T3466	an actual displacement of 0.7 m.	28	36	220	35	1300
25.50	26.40			0.90	T3467	22.60 m to 28.50 m Quartz feldspar crystal dacite containing a vague	20	26	100	35	170
22.25	27.23	4.98	5.00			planation (bedding?) core angle 45°. 25.4 ±0.2 m consists of a carbon-					
26.40	27.40			1.00	T3468	ate filled shear - core angle 15°.	26	22	96	30	280
27.40	28.40			1.00	T3469		22	22	120	20	150

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 7 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
28.40	29.50			1.10	T3470	28.5 m to 29.5 m Agglomerate of lapilli to scoria sized fragments with	28	22	200	40	1250
29.50	30.50			1.00	T3471	a graphitic shaley matrix.	32	190	740	105	320
30.50	31.50			1.00	T3472	29.5 m to 32.5 m Dark pyritic graphitic shales pervasively sheared	50	280	2100	195	310
31.50	32.50			1.00	T3473	(shear core angle 0°). Competantly distorting the bedding (core angle	28	36	740	110	140
32.50	33.79			1.29	T3474	70°). Millimeter crosscutting carbonate veins have core angles of 20°	26	36	570	85	190
27.23	33.79	6.56	4.50			to 45°.					
33.79	35.00			1.21	T3475	32.5 m to 36.2 m Crystal dacite containing very minor bands of shaley	30	30	280	80	230
35.00	36.20			1.20	T3476	material.	26	28	130	35	220
33.79	37.07	3.28	2.60								
36.20	37.20			1.00	T3477	36.2 m to 41.5 m Shales containing subordinate fine and coarse grained	32	40	160	35	190
37.20	38.20			1.00	T3478	tuff: bedding core angles 60 - 80°.	50	160	2100	260	340
38.20	39.20			1.00	T3479	TS: T346 (39.75 m) has been sent away for facing determination.	48	160	2400	230	270
39.20	40.35			1.15	T3480	RESULT: Probably facing westward. (Probably right way up.)	28	50	190	45	240
37.07	40.35	3.28	2.47			The upper contact is sharp but irregular; the lower contact is sharp					
40.35	41.40			1.05	T3481	(core angle 70°).	28	52	540	80	850
41.40	42.40			1.00	T3482	41.5 m to 53.2 m Coarse crystal dacitic tuffs with minor argillaceous	36	60	1080	150	330
42.40	43.38			0.98	T3483	and fine tuff bands. A series of centimeter carbonate veins (core	24	40	290	35	700
40.35	43.60	3.25	3.64			angle 25°) delineate a minor shear at 42.2.m. Bedding core angles vary					
43.38	44.00			0.62	T3484	irregularly from 40° (49.4 m) to 75° (43 m). Minor iron zoned (Fe	26	80	280	55	260
44.00	45.00			1.00	T3485	decreasing inward) ≤3 mm sphalerite crystals occur in a 10 mm ankerite	28	64	520	105	490
45.00	46.00			1.00	T3486	vein at 51.7 m. (core angle ~87°). One millimeter edged galena crystal	22	66	500	110	350
43.60	46.63	3.03	3.05			occurs within a 3 mm ankerite vein (core angle 87°) at 52.2 m. The					
46.00	47.00			1.00	T3487	lower unit is interdigitated with the next unit: (Core angle 55°)	26	80	250	105	550
47.00	48.00			1.00	T3488		40	220	960	250	1350
48.00	49.00			1.00	T3489		36	230	800	210	300
46.63	49.68	3.05	3.07								
49.00	50.00			1.00	T3490		20	78	540	120	240
50.00	51.00			1.00	T3491		14	56	330	70	200
51.00	52.00			1.00	T3492		18	56	1500	260	190
49.68	52.42	2.74	3.00								
52.00	53.00			1.00	T3493		200	520	3000	480	300
53.00	54.00			1.00	T3494		150	520	2200	300	310

DRILL HOLE No. SK 7 TYPE I DIRECTION

DATE START DATE FINISH FINAL DEPTH

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.		ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
54.00	55.00			1.00	T3495	53	56	500	1160	280	310
52.42	55.77	3.35	3.23			Th					
55.00	56.00			1.00	T3496	(a	16	96	220	110	270
56.00	57.00			1.00	T3497	(b	94	96	680	200	340
57.00	58.00			1.00	T3498		36	120	480	190	270
55.77	58.82	3.05	3.15			Tw					
58.00	59.00			1.00	T3499	(a	28	120	360	105	260
59.00	59.40			0.40	T3500	(b	80	240	1700	280	230
59.40	59.70			0.30	T3501	Th	20	54	390	80	180
59.70	60.00			0.30	T3502	(a	36	46	330	70	210
58.82	60.05	1.23	4.81			59					
60.00	61.00			1.00	T3503	to	16	44	230	45	200
60.05	61.87	1.82	1.25			ma					
61.00	62.00			1.00	T3504		12	14	170	40	180
62.00	63.00			1.00	T3505		18	76	360	70	240
63.00	64.00			1.00	T3506		22	140	280	95	230
61.87	64.92	3.05	3.02								
64.00	65.00			1.00	T3507		14	32	190	30	210
65.00	66.00			1.00	T3508		14	66	430	80	250
66.00	67.00			1.00	T3509		28	106	300	65	230
64.92	67.97	3.05	3.00								
67.00	68.00			1.00	T3510	68	22	80	540	85	240
68.00	69.00			1.00	T3511	(e	24	38	570	90	210
69.00	70.00			1.00	T3512	ar	12	20	170	35	190
70.00	71.00			1.00	T3513		12	58	310	70	200
67.97	71.02	3.05	3.05								
71.00	72.00			1.00	T3514		12	16	104	25	160
72.00	73.00			1.00	T3515		14	20	170	30	150
73.00	74.00			1.00	T3516		14	18	170	20	160
71.02	74.07	3.05	3.10								
74.00	75.00			1.00	T3517		12	34	170	35	170
75.00	75.80			0.80	T3518		16	36	140	50	130

MERICAN LIMITED

CREEK

..... INCLINATION..... DIRECTION .....

..... DRILL ..... FINAL DEPTH .....

	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
s with bedding laminae giving	150	400	2300	470	220
) 85.7 m to 86.0 m Angular					
trix. (b) 86.0 m to 87.0 m	74	390	1800	480	250
ert. The lower shale contact	56	370	1900	450	270
	102	490	1900	590	290
	112	520	1280	500	280
	74	320	1200	340	250
	24	66	200	85	260
	50	82	420	65	250
	190	180	460	65	250
	150	210	600	105	160
	92	300	1800	360	240
	30	210	2400	290	200
ignimbrite (?) containing dis-	60	80	380	85	10
ity (core angle = 40°) more	16	18	66	45	40
han rhyolitic flow banding.					
surfaces of randomly oriented	18	18	32	40	20
phyrodacites extensively veined	16	36	380	45	50
e catagorized as follows:	12	36	680	75	110
work forming up to 10% of the	14	32	470	75	120
crystalline soft white material	14	24	160	35	100
ankerite.	18	28	58	50	110
neral (zeolite?) bordered by	16	20	120	40	90
sphalerite.					
receeded at 121 m by a concord-	12	20	90	35	100
	12	26	58	35	130
	14	18	140	35	100

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APPENDIX 1.

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 7 TYPE D.D.H. CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH LOGGED BY DRILL FINAL DEPTH

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
98.35	101.49	3.14	3.19								
101.00	102.00			1.00	T3544		12	16	110	40	110
102.00	103.00			1.00	T3545		12	16	190	40	80
103.00	104.00			1.00	T3546		14	16	66	45	160
101.49	104.54	3.05	3.16								
104.00	105.00			1.00	T3547		16	16	22	35	160
105.00	106.00			1.00	T3548		16	26	12	20	150
106.00	107.00			1.00	T3549		18	18	18	50	110
104.54	3.05	2.86									
107.00				1.00	T3550		16	16	28	30	70
108.00	109.00			1.00	T3551		12	18	30	35	100
109.00	110.00			1.00	T3552		12	14	30	35	80
110.00	111.00			1.00	T3553		12	24	210	25	90
111.00	112.00			1.00	T3554		12	14	30	50	80
112.00	113.00			1.00	T3555		10	20	160	40	110
110.64	113.69	3.05	3.04								
113.00	114.00			1.00	T3556		10	14	1200	40	100
114.00	115.00			1.00	T3557		12	26	180	65	80
115.00	116.00			1.00	T3558		12	16	190	35	60
113.69	116.73	3.04	3.07								
116.00	117.00			1.00	T3559		10	18	260	35	70
117.00	118.00			1.00	T3560		10	18	240	35	80
118.00	119.00			1.00	T3561		20	24	480	60	110
116.73	119.78	3.05	3.11								
119.00	120.00			1.00	T3562		18	28	440	40	80
120.00	120.80			0.80	T3563		12	24	410	45	70
120.80	121.50			0.70	T3564	121.35 m to 122.50 m Highly distortrd laminated pyritic graphitic	22	22	470	55	90
121.50	122.58			1.08	T3565	shales and siltstones. A set of crosscutting quartz veins has been	26	110	860	75	240
119.78	122.83	3.05	3.04			plastically deformed along with the sediments and then the whole has					
122.58	123.30			0.72	T3566	by a set of ankerite veins.	28	160	1060	90	70
123.30	124.00			0.70	T3567	122.50 m to 124.00 m Veined porphyritic dacite as in 92.55 to 121.35 m.	20	26	500	35	50

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APPENDIX 1.
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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: E.L. 5/63 SOCK CREEK

BOREHOLE No. SK 7 TYPE D.D.H. CO-ORDINATES ..... INCLINATION ..... DIRECTION .....

DATE START ..... DATE FINISH ..... LOGGED BY ..... DRILL ..... FINAL DEPTH .....

N.W.P.S.

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	SAMPLE INT.	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Hg	Ba
124.00	124.70			0.70	T3568	124.0 m to 124.7 m Pyritic graphitic shales and quartz crystal porphyr	22	20	150	30	210
124.70	125.65			0.95	T3569	-itic sericitized xenotuff. Upper contact core angle = 70°. Lower	16	56	280	75	230
122.83	125.88	3.05	3.02			contact destroyed.					
125.65	126.50			0.85	T3570	124.7 m to 125.65 m Fine grained equigranular poorly bedded tuff to	18	32	140	35	200
126.50	127.50			1.00	T3571	greywacke. Pervaded by ≤5% by volume quartz-ankerite stockworking.	20	20	130	45	200
127.50	128.50			1.00	T3572	125.65 m to 127.5 m Agglomerate of porphyrodacite; clasts are ≤10 cm	18	18	150	40	110
125.88	128.93	3.05	2.93			diameter.					
128.50	129.50			1.00	T3573	127.5 m to 130.75 m Tuff/greywacke as in 125.65 m to 127.5 m, veined	16	20	180	35	110
129.50	130.75			1.25	T3574	also as above.	24	20	98	35	70
130.75	131.75			1.00	T3575	130.75 m to 138.45 m Quartz and feldspar crystal vitric dacite which	20	14	26	35	70
128.93	131.97	3.04	3.09			is significantly less veined than the above units. The lower contact					
131.75	132.50			0.75	T3576	is sharp and is further delineated by a small set of quartz-carbonate	18	16	28	40	130
132.50	133.50			1.00	T3577	veins. Core angle = 35°.	28	20	28	30	120
133.50	134.50			1.00	T3578		30	16	40	35	150
131.97	135.02	3.05	3.05								
134.50	135.50			1.00	T3579		14	16	46	15	200
135.50	136.50			1.00	T3580		10	16	44	35	190
136.50	137.50			1.00	T3581	138.45 m to 140.90 m Intercolated pyritic graphitic shales, chloritized	10	20	30	30	220
135.02	138.07	3.05	3.08			crystal vitric dacites and crystal porphyritic medium grained tuffs.					
137.50	138.40			0.90	T3582	The shales are severely plastically distroted and the whole is moderately	10	20	54	35	210
138.40	139.72			1.32	T3583	quartz-carbonate veined.	20	84	400	65	180
139.72	141.00			1.28	T3584	140.90 m to 144.35 m Pervasively stockworked (up to 30% by volume of	10	16	170	50	110
138.07	141.12	3.05	3.04			core) to brecciated fine/medium grained tuffs to graphitic shaley					
141.00	142.00			1.00	T3585	matrixed xenotuffs. Rupturing is most marked between 141.10 and 142.5m.	8	16	190	45	80
142.00	143.00			1.00	T3586	The lower contact of this unit is a breccia for 40 cm with fragments of	12	30	570	35	70
143.00	144.00			1.00	T3587	the next unit in a matrix of this unit.	10	28	190	55	80
141.12	144.17	3.05	3.09			144.55 m to 149.2 m Dark green/grey, fine grained, very locally quartz					
144.00	145.00			1.00	T3588	crystal porphyritic, vitric andesite(?).	10	26	108	25	120
145.00	146.00			1.00	T3589	149.2 m to 150.26 m Quartz feldspar crystal porphyritic vitric dacite.	12	16	68	20	120
146.00	147.00			1.00	T3590	The last 20 cm is devoid of any phenocrysts, is paler and finely crystal-	10	18	82	30	100
144.17	147.21	3.04	3.08			line and may be termed a rhyclite.					
147.00	148.00			1.00	T3591		10	38	200	35	110
148.00	148.94			0.94	T3592		10	30	130	55	80
148.94	150.26			1.32	T3593		8	22	84	40	110
147.21	150.26	3.05	3.05			END OF HOLE					

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DRILLHOLE LOG
Summary Sheet

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PROJECT	E.L. 5/83 TASMANIA	AREA	SOCK CREEK	DRILLHOLE	SK 7
CO-ORDS	678N 1000E	DEC LN	45°	AZIMUTH	100°
DH No.	SK 7	TYPE	D.D.H.		
DATE COMMENCED	14.3.75	DATE COMPLETED	20.3.75	DRILLED BY	LONGYEAR
DRILL RIG					
Non Coring to:		HQ Core to:		NQ Core to:	20.42 m
BQ Core to:	150.26 m	EOH	150.26 m		

SURVEY DATA

Instrument: EASTMAN CAMERA

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0		45	100	125		37	102
27		46	100	150		35¾	102
45		45	100				
70		42	101				
95		40	106.5				

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
0.00 m to 7.00 m			
Quartz crystal porphyritic dacite.			
7.00 m to 12.20 m			
Shales siltstones and fine to coarse (crystal) tuffs & xenotuffs.	Leached syngenetic pyrite and graphite		4 m
12.20 m to 15.00 m			
Volcanic agglomerate with minimal shaley matrix ending in a band	Syngenetic pyrite	2% pyrite	0.5 m
of silicified shales and siltstones.			
15.00 m to 28.5 m Quartz feldspar crystal dacite with a minor			
shale band (21.2 - 21.6 m)			
28.5 m to 29.5 m			
Volcanic agglomerate with a shaley matrix,			
29.5 m to 53.2 m			
Alternating shales and crystal dacitic tuffs.	Syngenetic pyrite with traces sphalerite	2% pyrite, less	10 m.
	and galena in carbonate veins.	than 1% galena and sphalerite.	
53.2 m to 59.4 m			
Laminated pyritic graphitic shales veined with carbonate.	Syngenetic pyrite.	2% pyrite	4 m
59.4 m to 89.4 m			
Massive volcanic agglomerate grading through lapilli tuffs, coarse	Syngenetic pyrite	2% pyrite	10 m
crystal tuff into fine shales and cherts.			
89.4 m to 92.55 m Ignimbrite			
92.55 m to 121.35 m			
Quartz feldspar crystal dacite.	Trace sphalerite in carbonate veins.	Trace sphalerite	25 m
121.35 m to 122.50 m			
Ruptured pyrite graphitic shales.	Syngenetic pyrite	2% pyrite	0.8 m
122.50 m to 124.0 m			
Quartz feldspar crystal dacite			
124.00 m to 124.7 m			
Pyritic graphitic shale and tuff.	Syngenetic pyrite	2% pyrite	0.3 m

N.W.P.S.

Signature

Date

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

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PROJECT E.L. 5/63 TASMANIA	AREA SOCK CREEK		DRILLHOLE TYPE D.D.H.
CO-ORDS	DEC LN	AZIMUTH	RL	DH No. SK 7
DATE COMMENCED	DATE COMPLETED	DRILLED BY	DRILL RIG
Non Coring to:	HQ Core to:	NQ Core to:	BQ Core to:	EOH

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH

LOG SUMMARY

ROCK TYPE	MINERALIZATION Style	Grade	Intersection width (Corr)
124.7 m to 130.75 m			
Fine to coarse tuffs and agglomerate.			
130.75 m to 138.45 m			
Quartz, feldspar crystal dacite .			
138.45 m to 144.55 m			
Pyritic graphitic shales and xenotuffs.	Syngenetic pyrite.	2% pyrite	4 m.
144.55 m to 149.2 m			
Andesite			
149.2 m to 150.26 m			
Quartz feldspar crystal dacite			
	END OF HOLE		

N.W.P.S.

Signature | Date

E.L. 5/63 SOCK CREEK D.D.H. SK 7

1. INDICATED VALUES OF ORE.

All values less than 0.5%.

2. CORE RECOVERY

metres drilled	150.26
metres recovered	142.00
percentage recovery	94.5%

3. CASING LEFT IN HOLE

2 metres HQ casing.

142

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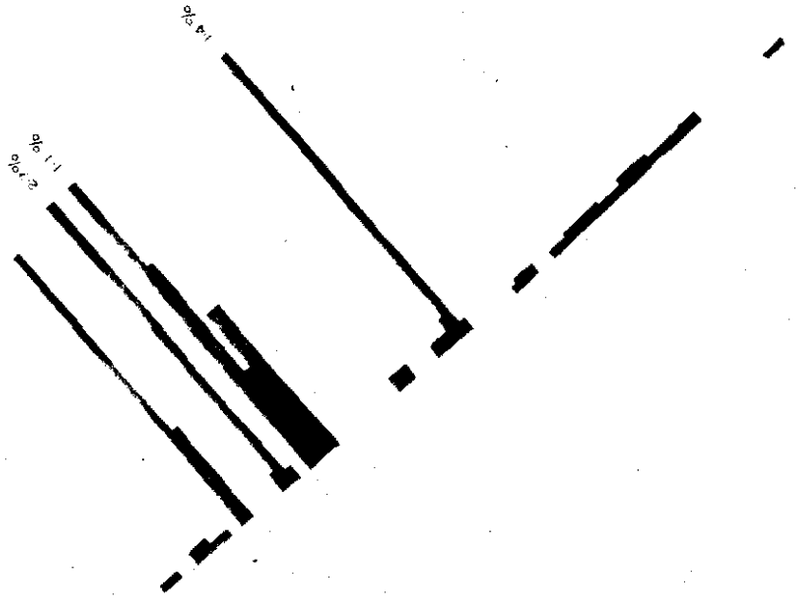

5 cm

COMSTAFF PROPRIETARY LIMITED			
SOCK CREEK PROSPECT D.D.H. SK8 SECTION ZINC HISTOGRAMS			
DRAWN J.H. 11/75	COMPILED	SCALE H=1:1000,V=1:2000ppm	TAS/2/851

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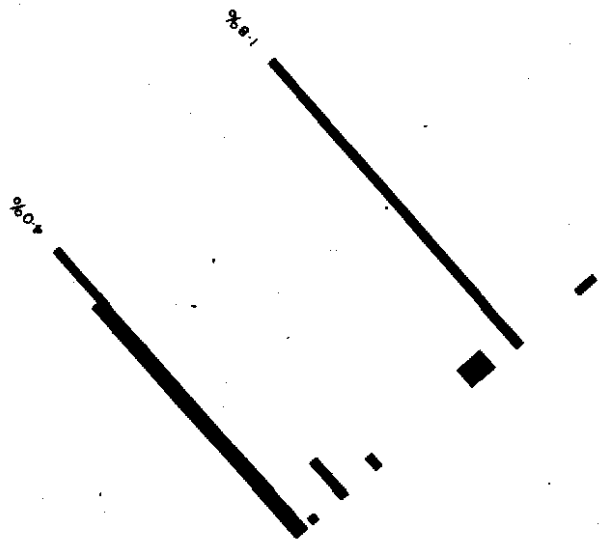
143144



5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK8 SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		H=1:1000,V=1:2000ppm	TAS/2/850

144

143145

5 cm

COMSTAFF PROPRIETARY LIMITED

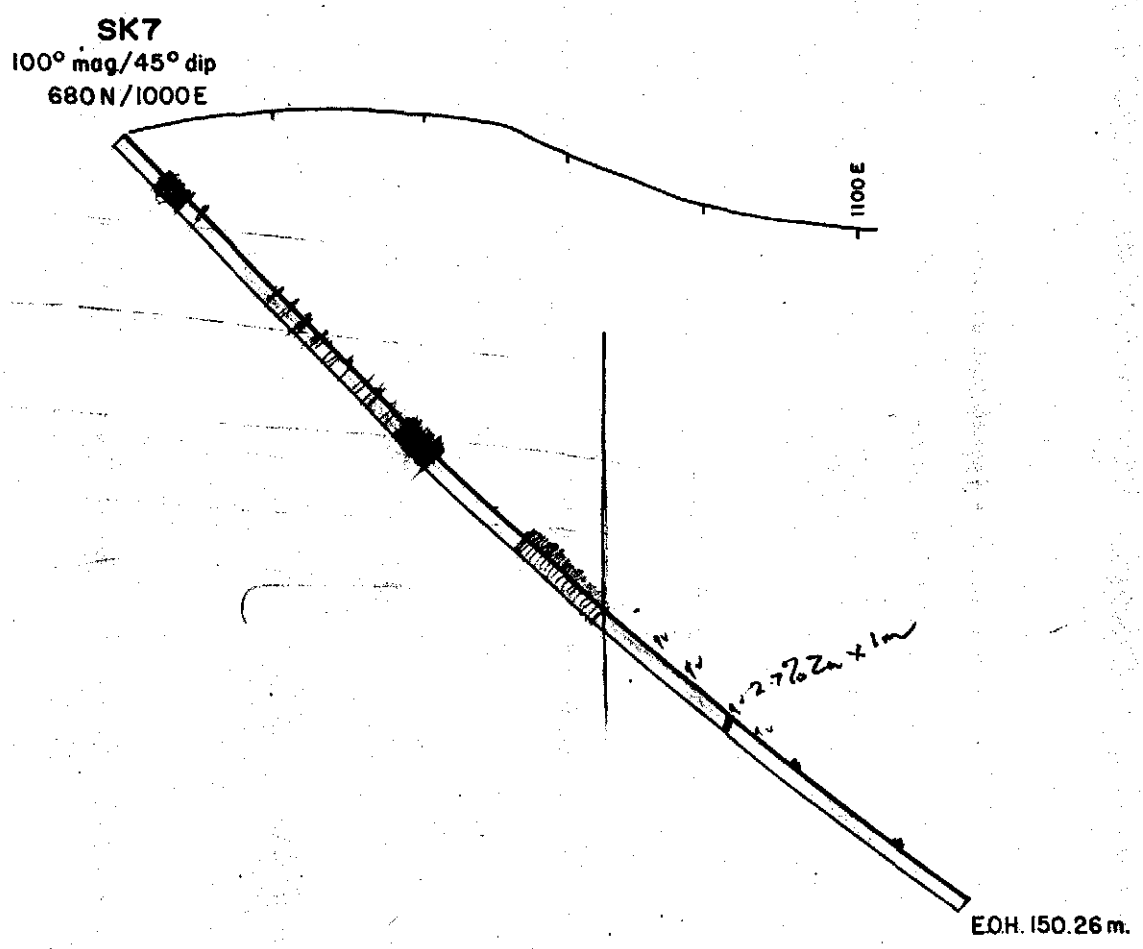
SOCK CREEK PROSPECT

D.D.H. SK8 SECTION

COPPER HISTOGRAMS

DRAWN	COMPILED	SCALE	
J. H. 11/75		1:1000 Vert 2000 ppm	TAS/2/849

143146



5 cm

1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK7 – SECTION

DRAWN	COMPILED	SCALE	
	RNS	1 : 1000	TAS/2/

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aac

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: DRILL LOG SK 6

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES:
SOCK CREEK SK-55/3 1258.8E 1164N

COMMODITY/IES:
Cu, Pb, Zn.

TEXT PAGES NO:

PLAN NOS:

TABLE NOS:

APPENDICES:

AUTHOR/S: E. KEANE

DATE: March 1975

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

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E.L. 5/83 SOCK CREEK D.D.H. SK 6

1. INDICATED VALUES OF ORE

1% Zn cut off

91.44 m to 92.04 m 1.25%Zn; 0.24%Pb; <0.01%Cu; <1ppm Ag; 0.1ppm Au; x 0.6 m D.T.

103.8 m to 104.8 m 1.15%Zn; <0.01%Pb; <0.1%Cu; <1ppm Ag; 0.05 ppm Au; x 1 m D.T.

105.0 m to 107.0 m 1.33%Zn; 0.06%Pb; 0.02%Cu; <1ppm Ag; <0.05ppm Au; x 2 m D.T.

0.5% Zn cut off

91.44 m to 92.80 m 1.04%Zn; 0.34%Pb; <0.01%Cu; <1ppm Ag; 0.1ppm Au; x 1.36 m D.T.

97.80 m to 98.80 m 0.76%Zn; 0.13%Pb; <0.01%Cu; <1ppm Ag; <0.05ppm Au; x 1.00 m D.T.

103.8 m to 107.0 m 1.20%Zn; 0.04%Pb; 0.01%Cu; <1ppm Ag; <0.05ppm Au; x 3.2 m D.T.

2. CORE RECOVERY

metres drilled	149.9[illegible]
metres recovered	131.74
percentage recovery	87.85%

3. CASING LEFT IN HOLE

Nil.

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AUSTRALIAN ANGLO AMERICAN LIMITED
DRILLHOLE LOG
Summary Sheet

Page of

PROJECT	E.L. 5/63	AREA	SOCK CREEK	DRILLHOLE TYPE	
CO-ORDS	1258.8E 1164N	DEC[LN] 45°	AZIMUTH 270° mag	RL	DH No. SK6
DATE COMMENCED	8.3.75	DATE COMPLETED 13.3.75	DRILLED BY LONGYEAR	DRILL RIG	
Non Coring to:		HQ Core to:	NQ Core to:	BQ Core to:	EOH 149.96

SURVEY DATA

Instrument:

DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH	DEPTH	DECLINATION Uncorr	DECLINATION Corr	AZIMUTH
0	45		270?				
9	45		265.5				
34	45.5		268				
73	42		272				
150	40		277				

LOG SUMMARY

ROCK TYPE		MINERALIZATION Style	Grade	Intersection width (Corr)
0 - 28.30m	Lithic crystal tuff - weathered.			
28.30 - 32.00	Graphitic shale - pyritiferous.	Disseminated pyrite.		
32.00 - 40.84	Crystal tuff - brecciated with quartz/carbonate and carbonate veining.			
40.84 - 45.00	Agglomerate - quartz veining.			
45.00 - 67.67	Crystal tuff - sheared and chloritised.	Scattered pyrite aggregates.		
67.67 - 76.00	Lapilli tuff becoming agglomeritic. Sheared and chloritised.			
76.00 - 92.04	Crystal tuff.	Pyrite aggregates.		
92.04 - 92.80	Black carbonaceous mudstone - friable .			
92.80 - 149.96	Porphyrite - phenocrysts of quartz and pinkish feldspar (Kaolinised in part).	Sphalerite and galena aggregates associated with quartz carbonate veins.		

N.W.P.S.

Signature | Date

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1. 143150

Page 1

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE NQ AND BQ (FROM 11.42)

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	Cu	Pb	Zn	Ba	Hg ppb	Ag	Au
0	5.79	5.79	0.62	11.23	T4109	0 - 10.35 Lithic crystal tuff. Very weathered and fragmented. Quartz	22	86	140	240	35	-	-
5.79	7.62	1.83	0.52	28.42	T4110	crystals (sand size) remnant. Oxidised; reddish to 9.14m becoming	24	68	94	160	130		
7.62	9.14	1.52	1.05	69.08	T4111	lighter to a pale grey at 11.42m. Gossanous. Concentrations of black	22	180	66	150	70		
						(manganese & limonite?) material along fracture surfaces or along the							
						previous carbonate vein surfaces (the manganese? material may have							
						resulted from the weathering of ankerite).							
9.14	10.66	1.52	1.34	88.16	T1482	10.35 - 11.42 As previously.	54	220	220	260	50		
					T4112	11.42 - 12.19 (T449)	34	200	200	330	30		
Petrographic Sample T449 described as: Weakly altered, weakly stressed porphyritic rhyodacite. N.B. sample re-numbered T336.						Weathered lithic crystal tuff. Pale grey/green with well defined feldspar laths up to 3mm and rounded, rhomb quartz. Cut by fine, dark (limonite and manganese) hair line threads that may have resulted from the weathering of carbonate veins. Where these veins are coarser and more defined weathering has apparently dissolved all the carbonate and voids remain.							
10.66	12.19	1.47	1.74	118.37	T4113	12.19 - 15.24 As previously. (T449)	8	16	44	750	15		
12.19	15.24	3.05	2.42	79.34	T4114	15.24 - 18.29 As previously. (T449)	10	12	62	300	10		
15.24	18.29	3.05	3.09	101.31	T4115	18.29 - 21.49 As previously. (T449)	8	16	50	180	15		
18.29	21.94	3.65	1.41	38.63	T4116	21.49 - 22.79 As previously, brecciated and broken core. (T449)	10	12	54	360	10		
					(T4116)	22.79 - 24.99 (T449)							
21.94	24.99	3.05	2.49	81.64	T4117	24.99 - 28.95 (T449)	12	20	76	650	20		
						Random quartz veining to 28.30m. The quartz veins are very vuggy - possibly indicative of quartz-carbonate veins from which the carbonate has been dissolved. At 28.30m weathered graphitic shale. Fine hairline fractures along a preferred plane (CA = 40°). Along these fractures the graphite has been oxidised to pale grey "clay". Over last 0.30m crystal tuff with a defined quartz vein (1cm wide) parallel to core.							
					T1483	27.89 - 28.89	26	30	110	430	35		

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1. 143151

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	REC-OVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
24.99	28.95	3.96	2.64	66.67	T4118	28.95 - 31.09	30	40	108	310	30	-	-
						Graphitic shale as previously. Pyritiferous.							
					T1484	28.89 - 29.89	76	72	240	420	95		
					T1485	29.89 - 30.89	62	106	250	290	115		
28.95	31.09	2.14	1.55	72.43	(T4118)	31.09 - 37.19							
						As previously. At 32.00 grading into a mid grey siltstone or greywacke (CA = 50°). From 35.20 - 37.19 becoming more silica rich, with a cherty appearance, mottled with wisps of chloritic - carbonaceous material. Limonitic staining along some fracture surfaces.						
					T1486	30.89 - 31.89	44	60	250	330	50		
					T1487	31.89 - 32.89	28	36	120	350	30		
					T1488	32.89 - 33.89	24	16	40	330	30		
31.09	37.19	6.10	5.52	90.49	T4119	37.19 - 40.84	8	16	38	220	20		
37.19	39.01	1.82	1.11	60.90		Fine grained mottled mid grey to pinkish tuff. Silicified and brecciated with occasional pinkish feldspar phenocrysts. Random quartz veining and thread like wisps of chloritic material. Limonite on fracture surfaces.							
39.01	40.84	1.83	1.55	84.70	T4120	40.84 - 41.00	6	440	68	240	15		
						Agglomerate consisting of larger fine grained angular chert-like tuffaceous "blocks" in a matrix of mottled grey and pink crystal tuff. Very brecciated and chloritised in part. Some quartz veining (CA = 10°)						
					T1489	41.00 - 42.00	20	14	42	240	15		
						As previously. No quartz veining.							
					T1490	42.00 - 43.00	18	18	68	290	10		
						As previously. Very sheared and fractured with limonitic staining on exposed surfaces.							
					T1491	43.00 - 44.00	22	14	56	330	10		
						Siltstone or fine grained tuffaceous rock (possibly "block" within the agglomerate). Mid grey, chert like in appearance cut by fine random hair line fractures, limonite stained in part.							

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

APPENDIX 1. 143152

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
					T1492	44.00 - 45.00	16	20	70	360	20		
						As for 40.84 - 41.00.							
40.84	45.73	4.89	4.49	91.82	T1493	45.00 - 46.00	12	40	380	110	30		
						Crystal tuff. Sheared and altered (chloritised). Very broken core, vuggy (probably dissolved carbonate veining). Limonitic staining along fracture surfaces. Pyrite aggregates.							
					T1494	46.00 - 47.00	150	400	950	270	90		
						As previously grading (over last 0.30m) into an unweathered altered (chloritised and silicified) crystal tuff. Very brecciated with random or stock work of carbonate veining. Pyrite present.							
					T1495	47.00 - 48.00	100	550	1600	500	145		
						Altered crystal tuff as previously. (same as T453).							
					T1496	48.00 - 49.00	130	900	1900	600	100		
						As previously. (same as T453).							
45.73	49.21	3.48	3.32	95.40	T1497	49.00 - 50.00	96	350	500	450	80		
						As previously. (same as T453).							
					T1498	50.00 - 51.00	180	270	1000	550	125		
						As previously. (T453).							
					T1499	51.00 - 52.00	10	98	400	80	80		
						As previously. (same as T453).							
49.21	52.42	3.21	3.02	94.08	T1500	52.00 - 53.00	190	104	240	240	35		
						As previously.							
					T4123	53.00 - 54.23	22	32	230	260	15		
						As previously.							

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1. 143153

PROJECT: SOCK CREEK

DRILL HOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
					(T4123)	54.23 - 55.23							
						Lapilli tuff, very sheared and brecciated. A contorted collection of quartz and pinkish feldspar phenocrysts in a carbonaceous - chloritic matrix. Gradually grading into a crystal tuff over last 0.40m. Cut by random carbonate veining.							
52.42	55.71	3.29	2.93	89.06	T4124	55.23 - 55.71	8	30	98	280	30		
						Rock type as previously with very defined carbonate vein (CA = 10°) approximately 1cm wide and crystalline. Brecciated inclusions within the vein and slickensides (CA = 48°) on the plane of the vein. Some pyrite aggregates and rare chalcopyrite .							
					T4124	55.71 - 58.25	8	30	98	280	30		
						Crystal tuff (as previously) grey to pinkish with intermeshing threads of chlorite. Phenocrysts of pinkish feldspar and some fine carbonate veins. Sheared, with slickensides (CA = 60°) on a near "vertical" plane (CA = 7°). Becoming more chloritised and grading into rock type. T453.							
55.71	58.52	2.81	2.42	86.12	T4125	58.25 - 61.56	28	44	180	1050	30		
						As for T453. Pyrite present.							
58.52	61.56	3.04	3.09	101.64	T4126	61.56 - 64.62	16	40	250	260	10		
						As previously.							
61.56	64.62	3.06	3.02	98.69	T4127	64.62 - 67.67	18	28	190	210	15		
						As previously. At 65.75 to 67.67 very contorted, brecciated and grading into lapilli tuff.							
64.62	67.67	3.05	3.14	102.45	T4128	67.67 - 70.00	14	40	230	380	25		
						Rock type as previously. Increase in carbonate content, blebby in part and as component of matrix other part. Over last 0.30m shear zone (CA=55°).							
67.67	70.71	3.04	2.94	96.71	T3401	70.00 - 71.00	18	30	190	650	25		
						As previously, sheared, pyrite aggregates.							

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1. 143154

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
					T3402	71.00 - 72.00	10	28	170	160	20		
						Agglomerate. Brecciated with carbonate veining (CA = 34°). Chloritised							
						and silicified. Pyrite aggregates.							
					T3403	72.00 - 73.00	14	28	80	230	20		
						As previously.							
70.71	73.76	3.05	3.14	102.95	T3404	73.00 - 74.00	12	20	56	290	15		
						Lapilli tuff grading into a fine grained crystal tuff. Chloritised.							
					T3405	74.00 - 75.00	12	24	110	170	20		
						Breccia, rock type as previously with completely random carbonate veining.							
					T3406	75.00 - 76.00	18	24	120	220	30		
						As previously.							
73.76	76.31	2.55	3.08	120.78	T3407	76.00 - 77.00	16	44	52	240	20		
						Fine grained crystal tuff.							
					T3408	77.00 - 78.00	16	40	60	260	25		
						As previously, sheared and brecciated with some (2cm) carbonaceous bands.							
					T3409	78.00 - 79.00	16	44	86	250	25		
						As previously.							
					T4131	79.00 - 79.86	12	68	84	250	30		
						Sheared lapilli tuff/crystal tuff (CA = 55°). Chloritised.							
76.31	79.86	3.55	3.13	88.17	T4132	79.86 - 82.91	8	48	200	290	15		
						Altered(brecciated and chloritised) fine grained crystal tuff. Random							
						carbonate veining.							

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Abbreviations: m = metre(s)
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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
79.86	82.91	3.05	3.01	98.69	T4133	82.91 - 85.95	6	40	160	180	30		
					T4133	82.91 - 84.35. As previously. 84.35 - 85.95. Crystal tuff with quartz-feldspar phenocrysts. Silicified with cherty appearance sheared.							
82.91	85.95	3.04	3.13	102.96	T4134	85.95 - 89.00	2	24	64	140	30		
						Chloritised and silicified siltstone, grading into a crystal tuff. Cut by random carbonate veining and a set at approximately CA = 80°. Very sheared and brecciated.							
				WHOLE CORE									
85.95	89.00	0.52	0.50	0.50	T1189	89.00 - 89.52	2	10	65	45		<1	0.05
						Fine grained crystal tuff. Mid grey with darker whisps, possibly mixture of chloritic and carbonaceous material. Random quartz carbonate veining. Pyrite aggregates.							
		1.00	0.97	0.90	T1190	89.52 - 90.52	2	30	35	50		<1	0.05
						Brecciated. Rock type as previously. Light grey with cherty appearance.							
		0.46	0.45	0.22	T1191	90.52 - 90.98	5	65	320	50		<1	0.05
						As previously.							
		0.46	0.45	0.45	T1192	90.98 - 91.44	5	170	760	60		<1	0.1
						As previously.							
		0.60	0.58	0.58	T1193	91.44 - 92.04	12	2400	1.25%	50		<1	0.1
						As previously.							
		0.76	0.82	0.82	T1194	92.04 - 92.80	60	4200	8800	190		<1	0.1
						Black carbonaceous mudstone. Somewhat unconsolidated, friable and contorted. Rare galena.							
		1.00	1.08	0.65	T1195	92.80 - 93.80	28	1050	1300	60		<1	<0.05
						Fine grained chert like rock with occasional phenocrysts of feldspar and blebs of carbonate. Brecciated.							
							5	880	1040	75		<1	0.05
		1.00	1.04	0.50	T1196	93.80 - 94.80							
						As previously.							

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Abbreviations: m = metre(s)
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mm = millimetres

APPENDIX 1. 143156

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	WHOLE CORE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg	Ag	Au
		1.00	0.96	0.60	T1197	94.80 - 95.80	5	430	320	75		<1	<0.05
						As previously with more numerous and defined phenocrysts of pinkish feldspar (2mm) and more numerous blebs of carbonate. Brecciated and cut by random quartz veins.							
		1.00	0.96	0.48	T1198	95.80 - 96.80	8	150	320	80		<1	<0.05
						As previously.							
		1.00	0.96	0.90	T1199	96.80 - 97.80	5	200	230	70		<1	<0.05
						As previously.							
		1.00	0.94	0.50	T1200	97.80 - 98.80	10	1250	7600	65		<1	<0.05
						As previously, chloritised in part.							
		1.00	0.91	0.20	T901	98.0 - 99.8	5	85	100	90		<1	<0.05
						As previously.							
		1.00	0.91	0.76	T902	99.80 - 100.80	10	42	120	105		<1	<0.05
						Rock type as previously with no carbonate blebs. Rhomb quartz phenocrysts (3mm). Fine quartz veins (CA = 80°).							
		1.00	1.05	0.50	T903	100.80 - 101.80	12	85	360	80		<1	<0.05
						As previously.							
		1.00	1.14	0.85	T904	101.8 - 102.8	8	10	85	275		<1	<0.05
						As previously rare sphalerite and galena aggregates associated within quartz - carbonate veining.							
		1.00	1.14	1.14	T905	102.8 - 103.8	18	35	1860	60		<1	<0.05
						As previously. Last 0.40m pinkish possibly quartz-feldspar rich rock with some galena and associated sphalerite veins parallel to drill core.							

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APPENDIX 1.

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Abbreviations: m = metre(s)
cm = centimetres
mm = millimetres

AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	WHOLE CORE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba		Ag	Au
		1.00	1.14	1.00	T906	103.8 - 104.8 'Altered, weakly sheared ? ignimbrite' T326. Some galena and associated sphalerite along veins (0.50 cm thick).	32	75	1.15%	85		<1	0.05
		0.20	0.20	0.20	T907	104.8 - 105.0 As previously. Galena and sphalerite.	15	60	1800	65		<1	<0.05
		1.00	0.86	0.33	T908	105.00 - 106.00 Rock type as previously. Shear zone and core very fragmented . Galena and associated sphalerite in veins.	100	550	1.55%	70		1	<0.05
		1.00	0.83	0.13	T909	106.00 - 107.00 As previously, very fragmented.	200	590	1.10%	245		<1	<0.05
		1.00	0.98	0.54	T910	107.00 - 108.00 Quartz-feldspar porphyry. Altered - chloritised in part and kaolinization of feldspars. Milky mid grey.	790	550	3220	50		<1	<0.05
		1.00	1.04	1.04	T911	108.00 - 109.00 As previously.	2	15	220	315		<1	<0.05
		1.00	1.04	1.04	T912	109.00 - 110.00 As previously.	2	<5	250	225		<1	<0.05
		1.00	1.04	1.04	T913	110.00 - 111.00 As previously. Some galena aggregates.	5	45	110	300		<1	<0.05
		1.00	1.04	1.04	T914	111.00 - 112.00 As previously.	2	5	160	510		<1	<0.05
		1.00	1.04	1.04	T915	112.00 - 113.00 As previously.	2	8	110	160		<1	<0.05
		1.00	1.04	0.90	T916	113.00 - 114.00 As previously. Brecciated with irregular quartz veining and increase in chloritization.	2	28	280	950		<1	<0.05

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AUSTRALIAN ANGLO AMERICAN LIMITED

PROJECT: SOCK CREEK

BOREHOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	WHOLE CORE	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba		Ag	Au
.		1.00	1.04	0.80	T917	114.00 - 115.00	2	10	340	380		<1	<0.05
						As previously. Brecciated and broken core.							
		1.00	1.04	0.66	T918	115.00 - 116.00	2	5	180	145		<1	<0.05
						Very brecciated and altered rock as previously becoming very silica rich							
						and cut by fine random carbonate veins.							
		1.00	1.02	1.00	T919	116.00 - 117.08	8	5	130	1150		<1	<0.05
						As previously.							
		1.00	1.00	1.00	T920	117.00 - 118.00	2	12	580	1250		<1	<0.05
						Quartz-feldspar porphyry. Rhombs (2mm) of quartz and altered (kaolinised)							
						phenocrysts (1-2mm) of feldspar in finer mid grey, partly chloritised							
						matrix. Fine carbonate veinlets intermeshing.							
		1.00	1.00	1.00	T921	118,00 - 119.00	2	12	150	550		<1	<0.05
						As previously.							
		1.00	0.99	0.99	T922	119.00 - 120.00	2	10	150	180		<1	<0.05
						As previously.							
		1.00	0.98	0.98	T923	120.00 - 121.00	5	10	200	75		<1	<0.05
						As previously. Brecciated.							
		1.00	0.98	0.98	T924	121.00 - 122.00	8	28	650	620		<1	<0.05
						As previously. Some galena and pyrite aggregates.							
		1.00	1.01	1.01	T925	122.00 - 123.00	2	<5	120	250		<1	<0.05
						As previously. Some galena and pyrite aggregates.							
					T4135	123.00 - 125.57	8	18	200	120	30		
						Rock type as previously. Sheared.							

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AUSTRALIAN ANGLO AMERICAN LIMITED

APPENDIX 1. 143159

PROJECT: SOCK CREEK

DRILL HOLE No. SK6 TYPE DDH CO-ORDINATES INCLINATION DIRECTION

DATE START DATE FINISH 22.8.75 LOGGED BY DRILL FINAL DEPTH

N.W.P.S. CORE SIZE BQ

DEPTH FROM	DEPTH TO	DRILLED METRES	REC. METRES	RECOVERY %	SAMPLE NO.	DESCRIPTION	ASSAY RESULTS Cu	Pb	Zn	Ba	Hg ppb
123.00	125.57	3.01	3.24	107.64	T4136	125.57 - 128.62	8	36	220	140	40
						As previously. Quartz-carbonate veining; one set CA = 40°, another					
						CA = 80°, others random. Rare galena and pyrite aggregated within veins.					
						Brecciated.					
125.57	128.62	3.05	3.10	101.64	T4137	128.62 - 131.67	16	18	210	1050	60
						As previously. Becoming more chlorite rich, phenocrysts larger (0.5cm).					
						Brecciated.					
128.62	131.67	3.05	2.92	95.74	T4138	131.67 - 134.72	12	18	180	270	25
						As for previous rock type. Rare galena and pyrite.					
131.67	134.72	3.05	2.71	88.85	T4139	134.72 - 137.77	12	20	74	800	20
						Rock type as previously. Quartz carbonate veining; one set CA = 70°,					
						another set CA = 43° and another less defined, more or less parallel to					
						drill core, which off-sets the sets. the youngest.					
134.72	137.77	3.05	3.02	99.01	T4140	137.77 - 140.81	14	20	96	650	20
						As previously.					
137.77	140.81	3.04	2.98	98.03	T4141	140.81 - 143.86	10	20	72	470	20
						Rock type as previously. Feldspars fresh and pinkish (no longer kaolinised)					
						some galena aggregates.					
140.81	143.86	3.05	3.00	98.36	T4142	143.86 - 146.91	16	40	68	200	15
						As previously. Feldspars partly altered.					
143.86	146.91	3.05	2.83	92.79	T4143	146.91 - 149.96	10	18	80	190	20
						As previously. Sheared for first 1.00m. Feldspars fresh and pinkish to 149.96.					
146.91	149.96	3.05	2.88	94.43		EOH.					

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E.L. 5/63 SOCK CREEK D.D.H. SK 6

1. INDICATED VALUES OF ORE

1% Zn cut off

91.44 m to 92.04 m 1.25%Zn; 0.24%Pb; <0.01%Cu; <1ppm Ag; 0.1ppm Au; x 0.6 m D.T.

103.8 m to 104.8 m 1.15%Zn; <0.01%Pb; <0.1%Cu; <1ppm Ag; 0.05 ppm Au; x 1 m D.T.

105.0 m to 107.0 m 1.33%Zn; 0.06%Pb; 0.02%Cu; <1ppm Ag; <0.05ppm Au; x 2 m D.T.

0.5% Zn cut off

91.44 m to 92.80 m 1.04%Zn; 0.34%Pb; <0.01%Cu; <1ppm Ag; 0.1ppm Au; x 1.36 m D.T.

97.80 m to 98.80 m 0.76%Zn; 0.13%Pb; <0.01%Cu; <1ppm Ag; <0.05ppm Au; x 1.00 m D.T.

103.8 m to 107.0 m 1.20%Zn; 0.04%Pb; 0.01%Cu; <1ppm Ag; <0.05ppm Au; x 3.2 m D.T.

2. CORE RECOVERY

metres drilled	149.96
metres recovered	131.74
percentage recovery	87.85%

3. CASING LEFT IN HOLE

Nil.

143161

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK7 SECTION

LEAD HISTOGRAMS

DRAWN	COMPILED	SCALE	
J.H. 11/75		H=1:1000,V=1:2000ppm	TAS/2/847

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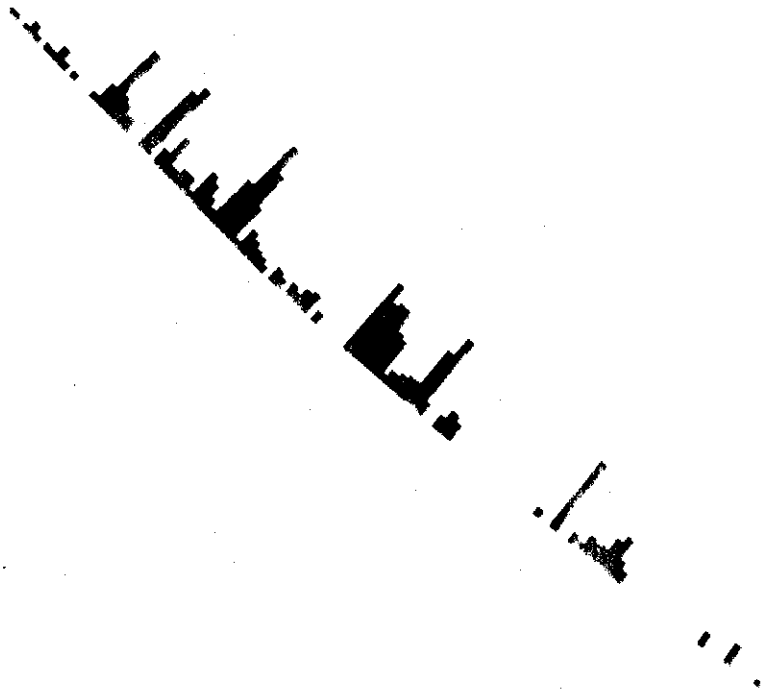

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

DDH SK7 SECTION

ZINC HISTOGRAMS

11/75

143163

5 cm

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK7 SECTION

COPPER HISTOGRAMS

DRAWN	COMPILED	SCALE	
J.H. 11/75		H=1000,V=1:2000ppm	TAS/2/848

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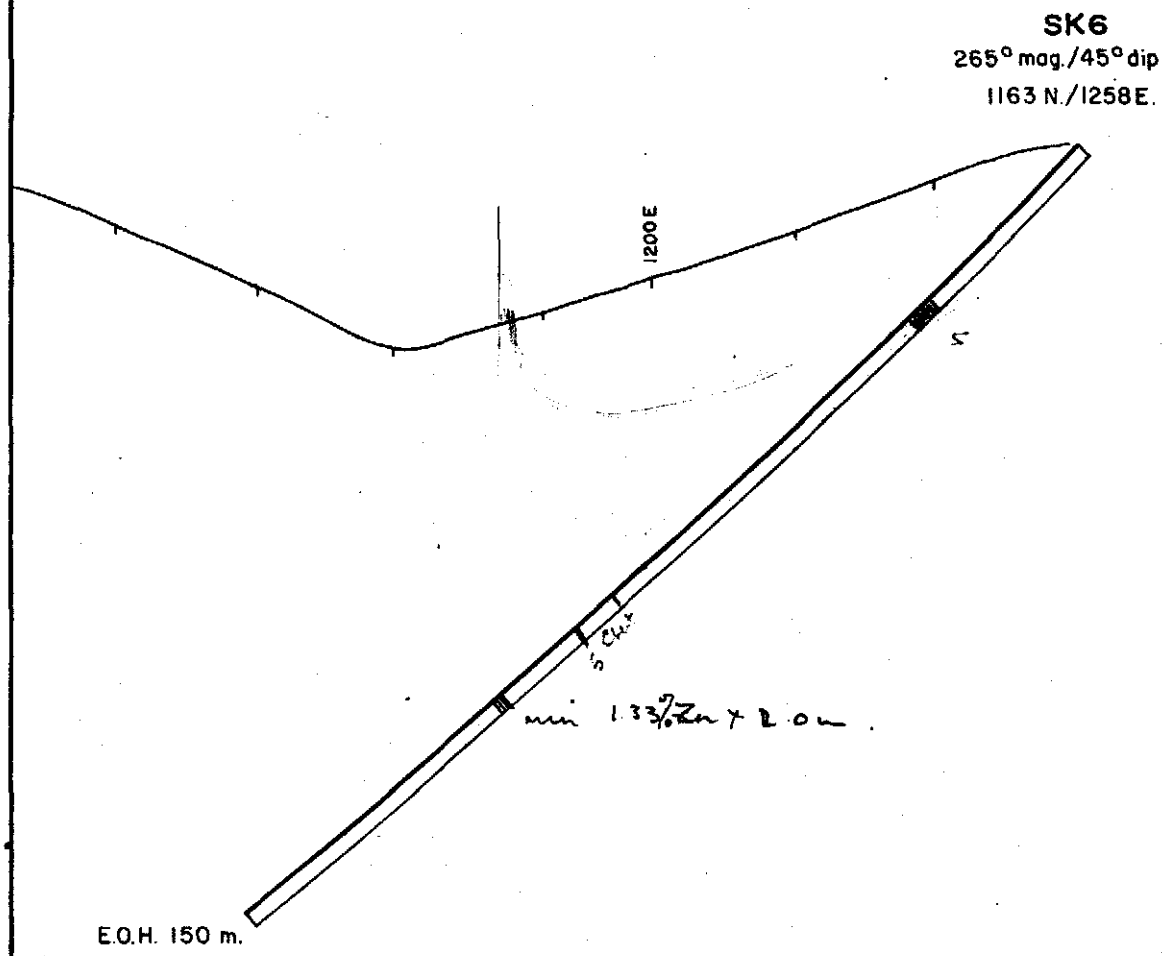

5 cm

1 : 1000

0 20 40 60

METRES

COMSTAFF PROPRIETARY LIMITED

SOCK CREEK PROSPECT

D.D.H. SK6 – SECTION

DRAWN	COMPILED	SCALE	
	RNS	1 : 1000	TAS/2/