

## PIONEER- APPENDIX 3

**TABLE 2**  
**PIONEER PROJECT - RESOURCE DATA**  
**POSSIBLE ORE RESOURCE**

<b>CUT-OFF GRADE GM/ M<sup>3</sup></b>	<b>N0. HOLE S</b>	<b>DEPTH O/B M</b>	<b>DEPTH WASH M</b>	<b>GRADE GM/M<sup>3</sup> SnO<sub>2</sub></b>	<b>AREA M<sup>2</sup></b>	<b>VOLUME O/B M<sup>3</sup></b>	<b>VOLUME WASH M<sup>3</sup></b>	<b>CONTAINED SnO<sub>2</sub> Tonnes</b>
<b>100</b>	114	34.31	7.45	859.96	740,000	25,389,400	5,513,000	<b>4,740</b>
<b>200</b>	111	35.60	5.72	1,164.82	557,000	19,829,200	3,186.040	<b>3,711</b>

For detail of drill hole locations the reader is referred to the Report by Amdex, listed in Section 9.0, Bibliography. An approximate outline of the +100 gm/m<sup>3</sup> cut-off resource is provided as Figure 3.

### 8.1 RESOURCE EXTENSION

An assessment of previous data indicates possible extensions to the resource base by:

- Recalculation of all drill hole data with the removal of overburden sections that, it is felt, will extend the resource boundaries into what now appears to be marginal ground;
- Extension of the resource to the west, south-west and south of the area presently drilled;
- Define by drilling the northern boundary of the resource;
- Locate old drill data relating to the area east of the old Pioneer workings (Austral Malay, Pioneer Tin Mining Company and Storey's Creek Tin) where there appears to be a shallow higher grade resource present

These extensions are considered to have the prospectivity to contain 3.5 million m<sup>3</sup> at an average grade of 1,000 gm / m<sup>3</sup> of SnO<sub>2</sub> at 70% Sn or 3,500 tonnes of SnO<sub>2</sub>.

## ALLUVIAL DRILL HOLE RESULT SUMMARY - 100 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 1

HOLE NUMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K19	81.00	49.61	31.39	24.38	7.62	496.80	3785.62
K20	83.25	49.11	34.14	28.96	7.62	713.00	5433.06
K21	84.72	44.78	39.93	28.95	10.67	616.71	6580.30
K23	86.98	43.09	43.89	28.96	16.76	930.73	15599.03
K24	87.35	46.20	41.15	32.00	9.14	272.00	2486.08
K25	86.38	47.66	38.71	32.00	7.62	415.40	3165.35
K28	77.85	52.10	25.76	19.81	6.10	570.00	3477.00
K31	85.20	49.50	35.66	27.43	8.23	161.85	1332.03
K32	81.78	49.17	32.61	27.43	6.10	268.75	1639.38
K33	83.25	49.10	34.14	27.43	6.71	143.14	960.47
K34	85.90	46.25	39.62	30.48	9.14	850.33	7772.02
K36	89.75	45.24	44.50	41.15	4.57	185.33	846.96
K37	89.72	45.21	44.50	38.10	6.10	234.75	1431.98
K38	85.54	44.23	41.30	33.53	1.52	103.00	156.56
K39	88.81	44.00	44.81	35.05	10.67	457.57	4882.27
K40	90.12	46.93	43.28	38.10	5.18	302.53	1567.11
K41	83.30	51.30	32.00	30.00	3.00	287.33	861.99
K42	73.48	49.73	23.75	12.00	13.00	1324.38	17216.94
K43	80.83	47.40	33.50	28.00	6.00	1038.67	6232.02
K44	74.39	47.90	26.50	18.00	9.00	304.30	2738.70
K45	73.20	45.70	27.50	18.00	10.00	340.00	3400.00
K48	84.05	51.55	32.50	28.00	4.00	236.50	946.00
K50	88.24	49.00	39.25	36.00	4.00	223.00	892.00
K51	82.83	47.83	35.00	22.00	13.00	450.92	5861.96
K52	75.48	51.00	24.50	16.00	9.50	376.68	3578.46
K53	85.72	49.47	36.25	30.00	7.00	4184.14	29288.98
K54	86.70	50.20	36.50	32.00	6.00	865.00	5190.00
K55	84.70	48.50	36.20	30.00	7.00	1196.43	8375.01
K57	88.18	46.43	41.75	32.00	10.00	556.60	5566.00
K58	86.04	44.04	42.00	30.00	13.00	2649.23	34439.99
K59	87.68	44.30	43.38	34.00	8.00	993.25	7946.00
K60	84.72	47.92	36.80	30.00	8.00	715.00	5720.00
K61	84.97	47.77	37.20	30.00	6.00	215.67	1294.02
K62	84.84	44.34	40.50	32.00	11.50	1895.57	21799.06
K63	86.16	44.66	41.50	32.00	11.00	365.45	4019.95
K64	86.52	46.02	40.50	24.00	21.00	651.14	13673.94
K65	85.64	47.45	38.20	34.00	4.00	209.00	836.00
K66	83.57	46.67	36.90	24.00	14.00	218.86	3064.04
K68	87.70	44.70	43.00	26.00	18.00	161.78	2912.04
K69	90.00	48.80	41.20	38.00	4.00	104.00	416.00
K70	84.57	44.67	39.90	34.00	2.00	101.00	202.00
K72	85.3	46.3	39.00	32.00	9.00	1393.67	12,543.03
K73	84.82	46.82	38.00	32.00	6.00	230.33	1,381.98
K74	83.87	44.37	39.50	30.00	2.00	154.00	308.00
K75	93.14	49.64	43.50	42.00	4.00	369.00	1,476.00
K76	88.53	44.03	44.50	34.00	12.00	1402.25	16,827.00
K77	93.67	48.62	45.00	42.00	4.00	444.00	1,776.00
K78	91.87	47.17	44.70	40.00	6.00	499.67	2,998.02
K80	90.45	44.95	45.50	40.00	9.00	947.89	8,531.01

## ALLUVIAL DRILL HOLE RESULT SUMMARY - 100 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 2

HOLE NUMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K81	91.06	46.36	44.70	40.00	8.00	2,385.25	19,082.00
K82	89.94	44.44	45.50	42.00	7.00	1,598.57	11,189.99
K83	88.66	48.26	40.40	38.00	4.00	1,137.50	4,550.00
K84	91.38	45.88	45.50	40.00	9.00	850.44	7,653.96
K86	90.99	48.99	42.00	38.00	8.00	704.50	5,636.00
K88	92.69	52.49	40.20	38.00	4.00	197.00	788.00
K89	89.89	44.89	45.00	40.00	4.00	223.50	894.00
K90	89.36	49.36	40.00	36.00	6.00	245.33	1,471.98
K92	89.30	47.50	41.70	38.00	4.00	597.00	2,388.00
K94	89.60	48.40	41.20	38.00	6.00	386.00	2,316.00
K95	81.35	47.65	33.70	28.00	6.00	325.00	1,950.00
K98	91.43	50.43	41.00	38.00	6.00	181.67	1,090.02
K99	83.41	47.61	35.80	24.00	12.00	386.67	4,640.04
K101	99.40	49.00	50.46	46.00	8.00	624.25	4,994.00
K102	101.18	47.38	53.80	46.00	10.00	212.20	2,122.00
K103	95.38	47.38	48.00	42.00	8.00	708.25	5,666.00
K104	90.89	46.59	44.30	42.00	4.00	171.50	686.00
K108	98.19	50.49	47.70	46.00	4.00	216.50	866.00
K109	99.24	51.54	47.70	44.00	7.00	809.71	5,667.97
K110	92.49	51.49	41.00	34.00	12.00	698.00	8,376.00
K111	98.19	48.69	49.50	44.00	10.00	1,734.30	17,343.00
K112	100.84	50.64	50.10	48.00	7.00	899.43	6,296.01
K113	97.12	48.12	49.00	42.00	9.00	302.89	2,726.01
K114	97.46	50.56	46.90	40.00	10.00	573.00	5,730.00
K115	94.80	50.30	44.50	38.00	10.00	882.10	8,821.00
K116	99.23	53.33	45.80	42.00	6.00	448.33	2,689.98
K117	91.80	55.39	36.50	34.00	8.00	247.88	1,983.04
K118	94.59	51.59	43.00	40.00	4.00	126.50	506.00
K119	95.83	49.83	46.00	42.00	7.00	1,781.29	12,469.03
K120	93.80	46.90	46.90	36.00	12.00	171.33	2,055.96
K121	95.38	49.38	46.00	42.00	6.00	342.00	2,052.00
K122	85.28	50.28	35.00	30.00	7.00	1,165.29	8,157.03
K123	82.10	50.10	29.32	26.00	10.00	936.90	9,369.00
K124	85.43	51.63	33.80	26.00	10.00	778.41	7,784.10
K125	94.30	51.50	42.80	38.00	7.00	453.39	3,173.73
K126	90.98	51.48	39.50	36.00	7.00	813.93	5,697.51
K127	84.53	53.23	31.30	30.00	4.00	384.93	1,539.72
K129	91.25	53.45	37.80	34.00	5.00	381.56	1,907.80
K132	83.30	55.30	28.00	20.00	4.00	122.70	490.80
K133	88.03	53.63	34.40	32.00	4.00	190.40	761.60
K134	93.74	45.25	48.50	40.00	10.00	1,281.20	12,812.00
K139	92.01	49.51	42.50	38.00	4.00	181.67	726.68
K140	92.11	49.11	43.00	38.00	9.00	508.79	4,579.11
K141	90.85	49.35	41.50	36.00	6.00	364.00	2,184.00
K142	97.89	51.89	46.00	40.00	15.00	1,093.14	16,397.10
K143	92.41	49.91	42.50	38.00	5.00	952.62	4,763.10
K144	95.64	48.44	47.20	46.00	3.00	288.70	866.10
K145	92.67	49.67	43.00	38.00	10.00	2,408.87	24,088.70



## ALLUVIAL DRILL HOLE RESULT SUMMARY - 100 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 3

HOLE NUMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K150	98.19	47.19	51.00	42.00	12.00	1,298.28	15,579.36
K150R	98.19	47.19	51.00	44.00	8.00	1,987.00	15,896.00
K151	92.49	50.49	41.00	38.00	10.00	5,406.80	54,068.00
K152	94.51		40.00	36.00	4.00	133.50	534.00
K153	91.06	46.06	45.00	40.00	8.00	2,923.25	23,386.00
K165	96.98	52.58	44.00	40.00	8.00	1,446.40	11,571.20
K166	98.25	52.25	46.00	48.00	4.00	126.85	507.40
K202	89.60	45.60	44.00	39.00	4.00	1,522.78	6,091.12
K206	95.2	39.70	55.50	47.00	2.00	265.60	531.20
K237	47.70	39.20	39.20	38.00	2.00	228.80	457.60
K238	87.10	47.70	39.30	38.00	4.00	1,182.90	4,731.60
K239	86.00	52.00	34.00	30.00	6.00	699.52	4,197.12
K240	89.80	53.00	36.80	34.00	6.00	1,002.07	6,012.42
K241	85.50	57.50	28.00	24.00	8.00	2,493.75	19,950.00
K242	87.20	53.20	34.00	32.00	4.00	939.43	3,757.72
K247	83.00	53.60	29.40	26.00	7.00	865.19	6,056.33
K249	79.10	55.30	23.80	18.00	9.00	444.63	4,001.67

		HOLES			
TOTAL	SHEET 1	49	1,485.76	397.75	293,427.33
	SHEET 2	48	1,812.00	346.00	259,998.07
	SHEET 3	17	614.00	106.00	177,328.74
		114	3,911.76	849.75	730,754.14

**AVERAGES** **34.31** **7.45** **859.96**

**STRIPPING RATIO** **4.61 : 1**



## ALLUVIAL DRILL HOLE RESULT SUMMARY - 200 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 4

HOLE NUMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K19	81.00	49.61	31.39	25.90	6.10	592.25	3612.73
K20	83.25	49.11	34.14	30.48	4.57	1,110.00	5072.70
K21	84.72	44.78	39.93	28.95	10.67	616.71	6580.30
K23	86.98	43.09	43.89	28.96	16.76	930.73	15599.03
K24	87.35	46.20	41.15	32.00	4.57	380.00	1736.60
K25	86.38	47.66	38.71	33.53	6.10	475.25	2899.03
K28	77.85	52.10	25.76	19.81	6.10	570.00	3477.00
K32	81.78	49.17	32.61	27.43	4.57	315.67	1442.61
K33	83.25	49.10	34.14	32.00	1.52	244.00	370.88
K34	85.90	46.25	39.62	30.48	9.14	850.33	7772.02
K36	89.75	45.24	44.50	42.67	1.52	280.00	425.60
K37	89.72	45.21	44.50	39.62	3.05	319.50	974.48
K38	85.54	44.23	41.30	33.53	1.52	103.00	156.56
K39	88.81	44.00	44.81	35.05	10.67	457.57	4882.27
K40	90.12	46.93	43.28	41.14	2.13	611.14	1301.73
K41	83.30	51.30	32.00	30.00	3.00	287.33	861.99
K42	73.48	49.73	23.75	12.00	13.00	1,324.38	17216.94
K43	80.83	47.40	33.50	28.00	6.00	1,038.67	6232.02
K44	74.39	47.90	26.50	20.00	4.00	531.00	2124.00
K45	73.20	45.70	27.50	20.00	8.00	394.00	3152.00
K48	84.05	51.55	32.50	30.00	2.00	366.00	732.00
K50	88.24	49.00	39.25	38.00	2.00	320.00	640.00
K51	82.83	47.83	35.00	26.00	9.00	581.33	5231.97
K52	75.48	51.00	24.50	20.00	5.50	569.54	3132.47
K53	85.72	49.47	36.25	30.00	7.00	4,184.14	29288.98
K54	86.70	50.20	36.50	32.00	6.00	865.00	5190.00
K55	84.70	48.50	36.20	30.00	7.00	1,196.43	8375.01
K57	88.18	46.43	41.75	34.00	8.00	667.50	5340.00
K58	86.04	44.04	42.00	32.00	11.00	3,111.45	34225.95
K59	87.68	44.30	43.38	34.00	8.00	993.25	7946.00
K60	84.72	47.92	36.80	30.00	8.00	715.00	5720.00
K61	84.97	47.77	37.20	32.00	2.00	286.00	572.00
K62	84.84	44.34	40.50	32.00	11.50	1,895.57	21799.06
K63	86.16	44.66	41.50	38.00	4.00	806.50	3226.00
K64	86.52	46.02	40.50	32.00	12.00	1,072.17	12866.04
K65	85.64	47.45	38.20	34.00	2.00	248.00	496.00
K66	83.57	46.67	36.90	34.00	4.00	381.00	1524.00
K68	87.70	44.70	43.00	40.00	4.00	376.50	1506.00
K72	85.3	46.3	39.00	32.00	8.00	1,546.00	12,368.00
K73	84.82	46.82	38.00	36.00	2.00	446.00	892.00
K75	93.14	49.64	43.50	42.00	4.00	369.00	1,476.00
K76	88.53	44.03	44.50	34.00	12.00	1,402.25	16,827.00
K77	93.67	48.62	45.00	42.00	4.00	444.00	1,776.00
K78	91.87	47.17	44.70	40.00	6.00	499.67	2,998.02
K80	90.45	44.95	45.50	42.00	6.00	1,345.33	8,071.98
K81	91.06	46.36	44.70	40.00	8.00	2,385.25	19,082.00
K82	89.94	44.44	45.50	42.00	6.00	1,846.33	11,077.98
K83	88.66	48.26	40.40	38.00	4.00	1,137.50	4,550.00
K84	91.38	45.88	45.50	40.00	8.00	941.75	7,534.00

## ALLUVIAL DRILL HOLE RESULT SUMMARY - 200 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 5

HOLE NUMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K86	90.99	48.99	42.00	40.00	6.00	896.67	5,380.02
K88	92.69	52.49	40.20	40.00	2.00	240.00	480.00
K89	89.89	44.89	45.00	40.00	4.00	223.50	894.00
K90	89.36	49.36	40.00	38.00	2.00	479.00	958.00
K92	89.30	47.50	41.70	38.00	4.00	597.00	2,388.00
K94	89.60	48.40	41.20	40.00	4.00	514.00	2,056.00
K95	81.35	47.65	33.70	30.00	4.00	393.00	1,572.00
K98	91.43	50.43	41.00	40.00	2.00	317.00	634.00
K99	83.41	47.61	35.80	32.00	4.00	1,006.00	4,024.00
K101	99.40	49.00	50.46	46.00	6.00	794.33	4,765.98
K102	101.18	47.38	53.80	50.00	2.00	403.00	806.00
K103	95.38	47.38	48.00	42.00	8.00	708.25	5,666.00
K108	98.19	50.49	47.70	46.00	2.00	321.00	642.00
K109	99.24	51.54	47.70	44.00	6.00	921.67	5,530.02
K110	92.49	51.49	41.00	36.00	6.00	1,250.67	7,504.02
K111	98.19	48.69	49.50	44.00	8.00	2,123.25	16,986.00
K112	100.84	50.64	50.10	48.00	6.00	1,030.83	6,184.98
K113	97.12	48.12	49.00	44.00	6.00	391.00	2,346.00
K114	97.46	50.56	46.90	42.00	8.00	675.50	5,404.00
K115	94.80	50.30	44.50	40.00	7.00	1,163.00	8,141.00
K116	99.23	53.33	45.80	44.00	3.00	719.33	2,157.99
K117	91.80	55.39	36.50	34.00	4.00	385.50	1,542.00
K119	95.83	49.83	46.00	44.00	4.00	3,037.25	12,149.00
K121	95.38	49.38	46.00	44.00	3.00	511.97	1,535.91
K122	85.28	50.28	35.00	33.00	3.00	2,538.33	7,614.99
K123	82.10	50.10	29.32	26.00	9.00	1,028.38	9,255.42
K124	85.43	51.63	33.80	26.00	9.00	850.48	7,654.32
K125	94.30	51.50	42.80	40.00	4.00	707.75	2,831.00
K126	90.98	51.48	39.50	36.00	5.00	1,091.98	5,459.90
K127	84.53	53.23	31.30	30.00	3.00	459.83	1,379.49
K129	91.25	53.45	37.80	34.00	4.00	431.85	1,727.40
K134	93.74	45.25	48.50	42.00	8.00	1,556.75	12,454.00
K140	92.11	49.11	43.00	40.00	6.00	687.17	4,123.02
K141	90.85	49.35	41.50	38.00	4.00	460.00	1,840.00
K142	97.89	51.89	46.00	40.00	15.00	1,093.14	16,397.10
K143	92.41	49.91	42.50	38.00	5.00	952.62	4,763.10
K144	95.64	48.44	47.20	46.00	2.00	372.90	745.80
K145	92.67	49.67	43.00	38.00	10.00	2,408.87	24,088.70
K150	98.19	47.19	51.00	42.00	10.00	1,529.38	15,293.80
K150R	98.19	47.19	51.00	46.00	4.00	3,812.00	15,248.00
K151	92.49	50.49	41.00	38.00	4.00	9,044.00	36,176.00
K153	91.06	46.06	45.00	40.00	8.00	2,923.25	23,386.00
K165	96.98	52.58	44.00	40.00	8.00	1,446.40	11,571.20
K202	89.60	45.60	44.00	39.00	4.00	1,522.78	6,091.12
K206	95.2	39.70	55.50	49.00	1.00	401.30	401.30
K237	47.70	39.20	39.20	38.00	2.00	228.80	457.60
K238	87.10	47.70	39.30	38.00	4.00	1,182.90	4,731.60
K239	86.00	52.00	34.00	30.00	6.00	699.52	4,197.12

## ALLUVIAL DRILL HOLE RESULT SUMMARY - 200 gm CUT-OFF

PROJECT: Pioneer

TENEMENT: E.L 12/2000

DATE: 18/12/02

RECALCULATION

WESTERN RESOURCE

SHEET 6

HOLE MEMBER	COLLAR R.L m	B/MENT R.L m	DEPTH BASEMENT	DEPTHS			
				O/B m	WASH m	GRADE g/m <sup>3</sup>	WEIGHTED W X G
K240	89.80	53.00	36.80	35.00	5.00	1,167.72	5,838.60
K241	85.50	57.50	28.00	24.00	8.00	2,493.75	19,950.00
K247	83.00	53.60	29.40	26.00	6.00	980.92	5,885.52
K249	79.10	55.30	23.80	20.00	6.00	598.57	3,591.42

		HOLES				
TOTAL	SHEET 1	49	1,597.55	303.99		320,354.93
	SHEET 2	48	1,893.00	249.00		317,634.90
	SHEET 3	4	105.00	25.00		35,265.54
		101	3,595.55	577.99		673,255.37

**AVERAGES** **35.60** **5.72** **1,164.82**

**STRIPPING RATIO** **6.22 : 1**