

ANCHOR-TAYKLA

DDA #1 - LAT - 50,000 N
 DEP - 50,000 N
 Pt. A - ELEV. 4300.00
 B - A N-37-00 E

DATUM PMS
 BEARING FOR SURVEY

673161

PAGE 1

SURVEY CALCULATION SHEET

LAT-(A) - 49,457.58
 DEP-(A) - 50,083.45

LEVEL _____

AUGUST 15/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
									N(+)	S(-)	E(+)	W(-)										
B-A-43-2	97.35	+ 01-50	.99948	97.30	79-55	N63-05 W			+ 44.05		- 86.76		49,501.63	49996.69	.01399	+ 1.36	+ 3.40	2.72		4307.48	4307.48	43-2 ✓
#1-A-B	171.07	- 2-15		170.94	278-32	S37-00 W				- 136.52	- 102.88		49,521.06	49980.57		- 6.72	+ 3.58	0.00		4296.86		B ✓
A-43-2-43-3	47.42	- 00-50	.99989	47.41	218-07	N24-58 W			+ 42.98		- 20.01		49,544.61	49976.68	.01454	- 0.69	- 1.74	2.00		4307.05	4307.05	43-3 ✓
B-A-#1	164.81	+ 21-40	.92934	153.16	81-28	N61-32 W			+ 73.00		- 134.64		49530.58	49948.81	.36920	+ 60.85	+ 3.54	0.00		4364.39	4364.39	#1 ✓
A-#1-#2	126.78	+ 06-05	.99436	126.06	248-51	N07-19 E			+ 125.03	+ 16.05			49655.61	49964.86	.10597	+ 13.43	+ 3.93	0.00		4381.75	4381.75	#2 ✓
#1-#2-#3	145.53	+ 05-10	.99593	144.94	181-58	N09-17 E			+ 143.04	+ 23.38			49798.65	49988.24	.09005	+ 13.10	+ 3.18	0.00		4398.03	4398.03	#3 ✓
#2-#3-#4	139.76	+ 09-05	.98745	138.01	165-35	N05-08 W			+ 137.46		- 12.35		49936.11	49975.89	.15787	+ 22.06	+ 3.40	0.00		4423.49	4423.49	#4 ✓
#3-#4-#5	126.07	- 02-15	.99922	125.97	212-20	N27-12 E			+ 112.04	+ 57.58			50,048.15	50033.47	.03925	- 4.95	+ 3.07	0.00		4421.61	4421.61	#5 ✓
#4-#5-#6	90.11	- 02-55	.99870	89.99	181-43	N28-55 E			+ 78.77	+ 43.51			50126.92	50076.98	.05088	- 4.58	+ 2.98	0.00		4420.01	4420.01	#6 ✓
	58.65	- 00-50	.99989	58.64	07-36	S34-48 W				- 48.15	- 33.47		50,000.00	50,000	.01454	- 0.85		0.00		4423.74	4423.74	DDA #1 ✓
#5-#6-#7	132.40	+ 06-25	.99373	131.57	137-38	N13-27 W			+ 127.96		- 30.60		50254.88	50046.38	.11175	+ 14.80	+ 3.94	0.00		4438.75	4438.75	#7 ✓
#6-#7-#8	103.21	- 02-40	.99891	103.10	201-05	N07-30 E			+ 102.19	+ 13.69			50357.07	50060.07	.04652	- 4.80	+ 3.77	0.00		4437.72	4437.72	#8 ✓
#7-#8-#9	120.39	- 03-15	.99839	120.20	181-40	N09-18 E			+ 118.62	+ 19.42			50475.69	50079.49	.05669	- 6.82	+ 3.46	0.00		4434.36	4434.36	#9 ✓
#8-#9-#10	93.71	+ 03-25	.99822	93.54	164-45	N05-17 W			+ 93.04		- 9.70		50568.73	50069.79	.05959	+ 5.58	+ 3.69	0.00		4443.63	4443.63	#10 ✓
#9-#10-#11	109.89	- 03-45	.99785	109.65	180-05	N05-52 W			+ 109.08		- 11.21		50677.81	50058.58	.06540	- 7.19	+ 3.30	0.00		4439.74	4439.74	#11 ✓
#10-#11-#12	90.34	- 07-46	.99106	89.53	181-39	N04-13 W			+ 89.29		- 6.58		50767.10	50052.00	.13340	- 12.05	+ 3.38	0.00		4431.07	4431.07	#12 ✓
A-TPH-53	102.0	+ 10-00		98.9	180-00	DUE NORTH			+ 98.9				49598.6	50,083.45		+ 17.44	+ 5.21	4.0		4313.30		S-3 ✓

ANCHOR-TAKLA

SURVEY CALCULATION SHEET

ALWIN MINING Co. (LTD. (N.P.L.)

LEVEL _____

O.K. MINE.

AUGUST 16/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
									N(+)	S(-)	E(+)	W(-)										
A-TP1	54.41	02-55		54.34	331-32	DUE WEST						54.34	49457.58	50029.11		2.77	+3.58	0.00	0.6	4300.81		TP1 ✓
A-TP1-TP2	36.35	06-45		36.10	90-00	DUE SOUTH				36.10			49421.48	50029.11		4.27	+4.15	0.00	0.7	4300.69		TP2 ✓
TP1-TP2-TP3	18.02	14-50		17.42	270-00	DUE WEST						17.42	49421.48	50011.69		4.61	+4.74	0.00	0.7	4300.82		TP3 ✓
TP2-TP3-TP4	22.30	10-40		21.91	90-00	DUE SOUTH				21.91			49399.57	50011.69		4.13	+4.40	0.00	0.7	4301.09		TP4 ✓
TP3-TP4-TP5	17.33	13-10		16.87	270-00	DUE WEST						16.87	49399.57	49994.82		3.95	+4.48	0.00	1.2	4301.62		TP5 ✓
TP4-TP5-TP6	58.88	07-50		58.33	90-00	DUE SOUTH				58.33			49341.24	49994.82		8.02	+4.37	0.00	1.0	4297.79		TP6 ✓
TP5-TP6-TP7	20.37	07-35		20.19	270-00	DUE WEST						20.19	49341.24	49974.63		2.69	+4.44	0.00	1.0	4299.72		TP7 ✓
TP6-TP7-TP8	33.35	09-50		32.86	90-00	DUE SOUTH				32.86			49308.38	49974.63		5.70	+3.69	0.00	0.7	4297.71		TP8 ✓
TP7-TP8-TP9	23.80	08-50		23.52	270-00	DUE WEST						23.52	49308.38	49951.11		3.65	+4.28	0.00	0.8	4298.34		TP9 ✓
TP8-TP9-TP10	9.62	22-10		8.91	90-00	DUE SOUTH				8.91			49299.47	49951.11		3.63	+3.62	0.00	0.7	4298.33		TP10 ✓
TP9-TP10-S1	16.5	80-00		16.50	90-00	DUE EAST					+16.50		49299.47	49967.61		0.00	0.00	0.00				S-1 ✓
AUGUST 17/68																						
TP9-TP10-TP11	22.53	18-30		21.37	180-00	DUE SOUTH				21.37			49278.10	49951.11		7.15	+4.90	0.00		4296.08		TP11 ✓
TP10-TP11-TP12	16.38	12-45		15.98	270-00	DUE WEST						15.98	49278.10	49935.13		3.61	+4.97	0.00		4297.44		TP12 ✓
TP11-TP12-TP13	78.50	02-30		78.42	90-00	DUE SOUTH				78.42			49199.78	49935.13		3.42	+4.25	7.00		4291.27		TP13 ✓
TP12-TP13-S2	14.78	31-05		12.66	90-00	DUE EAST					+12.66		49199.78	49947.89		7.63	+4.48	0.00		4288.12		S2 ✓
TP13-A-TP14	42.30	05-15		42.12	90-00	DUE NORTH				+42.12			49499.70	50,083.45		3.87	+3.52	0.00		4299.65		TP14 ✓

ANCHOR - TAKLA.

SURVEY CALCULATION SHEET

~~ALUMINUM (L.P.)~~

LEVEL SURFACE

~~OK. TIME~~

AUGUST 19/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
									N(+)	S(-)	E(+)	W(-)										
3-4-13	196.66	+26-45		175.61	91-21	S86-13W				-11.59		-175.23	49924.52	49800.66		+88.52	+2.93	0.00		4514.94		#13 ✓
4-13-14	199.15	-04-25		198.57	292-21	N18-34E			+188.23		+63.23		50112.75	49863.89		-15.34	+3.65	0.00		4503.25		#14 ✓
13-14-15	195.07	+16-50		186.71	150-08	N11-18W			+183.09			-36.59	50295.84	49827.30		+56.49	+4.43	0.00		4564.17		#15 ✓
	78.00	+24-25		66.47	59-14	S77-48W				-14.05		-64.97	50098.70	49798.92		+30.18		-4.00		4533.86		DDH 33 ✓
14-15-16	94.93	+5-30		91.48	159-51	N31-21W			+78.04			-47.73	50373.88	49779.57		+25.37	+3.96	0.00		4593.50		#16 ✓
15-16-17	134.80	+09-00		133.14	203-39	N07-48W			+131.91			-18.07	50505.79	49761.50		+21.09	+4.37	-2.50		4616.46		17 ✓
16-17-18	180.25	+10-20		177.33	159-35	N28-13W			+156.27			-83.84	50662.06	49677.66		+32.33	+4.24	0.00		4653.03		18 ✓
7-8-DDH's	56.00	-13-15		54.51	350-40	S01-42E				-54.48	+1.68		50302.59	50061.75		-12.84	+3.06	0.00		4427.94		DDH 4 ✓
	45.53	-08-15		45.06	179-35	N07-13E			+44.70		+5.66		50401.77	50065.73		-6.53		0.00		4434.25		DDH 5 ✓
8-9-DDH	29.33	-02-20		29.31	141-41	N29-01W			+25.63			-14.22	50501.32	50065.27		-1.19	+3.47	0.00		4436.64		DDH 6 ✓
TP13-S2-S4	106.0	-10-55		102.18	283-07	S13-07W				-99.51		-23.18	49,100.27	49924.71		-19.74	0.00	0.00		4268.38		S-4 ✓
S2-S4-S5	316.0	-19-45		279.84	90-00	DUE EAST					+279.84		49,100.27	50204.55		-100.58	0.00	0.00		4167.80		S-5 ✓
S2-S4-S5	640.0	-18-00		578.88	90-00	DUE EAST					+578.88		49,100.27	50503.59		-188.10	0.00	0.00		4080.28		S-6 ✓
13-14-TP18	14.20	-27-41		12.57	00-00	S18-54W				-11.92		-4.00	50100.83	49823.30		-6.60	+3.80	0.00		4500.45		TP 18 ✓
14-15-TP19	101.93	-21-15		95.00	00-00	S11-18E				-93.16	+18.62		50202.68	49808.68		-86.84	+3.84	-3.60		4527.17		TP 19 ✓

DESTROYED 22 AUG 68

DESTROYED 22 AUG 68

DESTROYED 22 AUG 68

SURVEY CALCULATION SHEET

ANCHOR MINES ~
TAKLA SURVEY

~~ANCHOR MINES CO. LTD. (M.P.L.)~~
OK MINE U/G SURVEY

LEVEL 4300

20 AUG 68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE		DEPARTURE		TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
									N(+)	S(-)	E(+)	W(-)										
B-A-43.1	60.16	+ 02 30		60.10	79° 55'	N 63° 05' W			+ 27.20		- 53.59		49,484.78	50029.98		+ 2.62	+ 3.35	+ 2.70	- 4.4	4308.67	PORTAL -7.8	43.1 ✓
B-A-43.2	97.35	+ 01-50	.99948	97.30	79° 55'	N 63° 05' W			+ 44.05		- 86.76		49,501.63	49,996.69	.01399	+ 1.36	+ 3.40	+ 2.72	- 6.7	4307.48	+2.0	43.2 ✓
A-43.2 43.3	47.42	- 00-50	.99980	47.41	218° 07'	N 24° 58' W			+ 42.98		- 20.01		49,544.61	49,976.68	.01454	- 0.69	- 1.74	+ 2.00	- 6.0	4307.05	+2.0	43.3 ✓
43.2-43.3 -43.4	42.08	- 00-40		42.08	208° 31'	N 03° 33' E			+ 42.00		+ 2.61		49,586.61	49,979.29		- 0.49	- 1.04	+ 1.73	- 3.82	4307.25	+2.0 -5.5	43.4 ✓
43.3-43.4 -43.5	44.09	- 01-45		44.07	136° 22'	N 40° 05' W			+ 33.72		- 28.38		49,620.33	49,950.91		- 1.35	- 0.71	+ 1.88	- 3.9	4307.07	+2.0 -5.8	43.5 ✓
43.4-43.5 -43.6	69.60	- 00-45		69.00	194° 08'	N 25° 57' W			+ 62.04		- 30.19		49,682.37	49,920.72		- 0.90	- 0.87	+ 1.71	- 3.9	4307.01	+2.0 -5.6	43.6 ✓
43.5-43.6 -43.7	87.00	+ 00 40		87.00	185° 54'	N 20° 03' W			+ 81.73		- 29.83		49,764.10	49,890.89		+ 1.01	- 0.87	+ 3.26	- 4.4	4310.41	IN BACK -7.7	43.7 ✓
43.6-43.7 -43.8	36.29	+ 00-10		36.29	187° 13'	N 12° 44' W			+ 35.40		- 8.00		49,799.50	49,882.89		+ 0.11	- 2.53	+ 1.98	- 4.7	4309.97	IN BACK -6.7	43.8 ✓
43.7-43.8 -43.9	80.84	- 00-20		80.84	188° 43'	N 04° 01' W			+ 80.64		- 5.66		49,880.14	49,877.23		- 0.47	- 1.27	+ 3.20	- 4.0	4311.43	IN BACK -7.2	43.9 ✓
43.8-43.9 -43.10	79.00	- 00 05		79.00	171° 46'	N 12° 15' W			+ 77.20		- 16.76		49,957.34	49,860.47		- 0.11	- 1.91	+ 1.84	- 4.5	4311.35	IN BACK -6.4	43.10 ✓
43.9-43.10 -43.11	87.66	- 00 25		87.66	187° 37'	N 04° 38' W			+ 87.37		- 7.08		50044.71	49,853.39		- 0.64	- 1.21	+ 2.91	- 4.0	4312.41	IN BACK -6.5	43.11 ✓
43.10-43.11 -43.12	56.36	00 00	1.0	56.36	202° 30'	N 17° 52' E			+ 53.64		+ 17.29		50098.35	49,870.68		0.00	- 1.21	+ 1.35	- 5.2	4312.55	IN BACK -6.6	43.12 ✓
43.10-43.11 -43.13	32.43	- 02-30		32.40	140° 20'	N 44° 16' W			+ 23.20		- 22.62		50067.91	49,830.77		- 1.41	- 1.21	+ 2.39	- 4.0	4312.18	IN BACK -6.4	43.13 ✓
43.11-43.13 -43.14	57.96	+ 00 35		57.96	133° 47'	S 89° 31' W					- 0.49		50067.42	49,772.82		+ 0.59	- 1.51	+ 1.82	- 5.2	4313.08	IN BACK -7.0	43.14 ✓
43.13-43.14 -43.15	25.44	- 01 45		25.43	195° 02'	N 75° 27' W			+ 6.39		- 24.61		50073.81	49,748.21		- 0.78	- 1.61	+ 2.09	- 4.5	4312.78	IN BACK -6.5	43.15 ✓
43.14-43.15 -43.16	45.86	- 01-15		45.85	250° 46'	N 04° 41' W			+ 45.70		- 3.74		50119.51	49,744.47		- 1.00	- 1.28	+ 2.33	- 4.0	4312.83	IN BACK -5.8	43.16 ✓
43-15 43-16 PCE	23.0	00			217° 34'	(4 L 3.0' + R 3.0' + 6.1' High)																

NB. Δ 43-6 is in LAST TIMBER SET.

ANCHOR - TAKLA

SURVEY DATE Aug 1968

PAGE 6
CHAIN TRAVERSE
REMARKS: - N. end #1 Zone

BS/PI/F.S.	HORIZ	VERT.	SLOPE	HORIZ	VERT.	HT	HT	BEARING	ΔLAT.	ΔDEP.	N	E	EL.	F.S.
	L	L	DIST.	DIST.	DIST.	4	of							
18 17 21	37° 04	05-30	119.18	118.63	11.42	+ 4.55	(6.5) 00	N 08-51 E	+ 117.22	+ 18.25	50623.01	49779.75	4609.59	21 ✓
17 21 22	171° 29	10° 35	129.81	127.60	23.84	+ 4.54	(6.5) 00	N 00-20 E	+ 127.60	+ 0.74	50750.61	49780.49	4590.29	22 ✓
21 22 23	175° 08	09 25	194.90	192.27	31.89	+ 4.33	(2.4) 00	N 04-32 W	+ 191.67	- 15.20	50942.28	49765.29	4562.73	23 ✓
22 23 24	175° 09	05 55	169.00	168.10	17.42	+ 2.73	(2.0) 00	N 09-23 W	+ 165.85	- 27.41	51108.13	49737.88	4548.04	24 ✓
23 24 25	186° 02	13 25	196.59	191.22	45.61	+ 3.16	(2.1) 00	N 03-21 W	+ 190.89	- 11.17	51299.02	49726.71	4505.59	25 ✓
24 25 26	184° 00	10 20	166.40	163.70	29.85	+ 3.18	(1.9) 00	N 00-39 E	+ 163.69	+ 1.86	51462.71	49728.57	4478.92	26 ✓
25 26 27	180° 18	10 00	183.88	181.09	31.93	+ 3.05	(2.0) 00	N 00-57 E	+ 181.06	+ 3.00	51643.77	49731.57	4450.04	27 ✓
TRANSVERSE TO NO 2 ZONE														
17 18 18a	115° 25	01 35	57.82	57.80	1.60	+ 4.12	(1.2) 00	S 87-12 W	- 2.82	- 57.73	50659.24	49619.93	4655.55	18A ✓
17 18 28	118° 00	+ 04 55	192.68	191.97	+ 16.51	+ 4.12	(1.5) 00	S 89-47 W	- 0.73	- 191.97	50661.33	49485.69	4673.66	28 ✓
18 28 29	248° 45	+ 03 30	201.50	201.12	+ 12.30	+ 3.35	(2.3) 00	N 21-28 W	+ 187.17	- 73.60	50848.50	49412.09	4689.31	29 ✓
28 29 30	172° 20	+ 02 35	193.64	193.44	+ 8.73	+ 2.74	(1.4) 00	N 29-08 W	+ 168.97	- 94.17	51017.47	49317.92	4700.78	30 ✓
29 30 31	175° 13	+ 07 50	128.40	127.20	+ 17.50	+ 3.98	(1.7) 00	N 33-55 W	+ 105.56	- 70.98	51123.03	49246.94	4722.26	31 ✓
30 31 32	168 47	+ 01 55	193.01	192.90	+ 6.45	+ 3.58	(1.4) 00	N 45-08 W	+ 136.08	- 136.72	51259.11	49110.22	4732.29	32 ✓

E. Side of Road to Camp

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