ANCHOR - TAYKLA

DDH #1 - LAT - 50,000 N
DEP - 50,000 N
Pt. A - ELEV. 4300.00
B-A N-37-00 E
} DATUM Pts & BEARING FOR SURVEY

673161 PAGE 1

SURVEY CALCULATION SHEET

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

[redacted]

LEVEL _____

AUGUST 15/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE N(+)	LATITUDE S(-)	DEPARTURE E(+)	DEPARTURE W(-)	TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
B-A-43-2	97.35	+ 01-50	.99948	97.30	79-55	N63-05W			+ 44.05			- 86.76	49,501.63	49996.69	.01399	+ 1.36	+ 3.40	+ 2.72		4307.48		43-2 ✓
#1-A-B	171.07	- 2-15		170.94	278-32	S37-00W				- 136.52		- 102.88	49,321.06	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	N24-58W			+ 42.98			- 20.01	49,544.61	49976.68	.01454	- 0.69	- 1.74	+ 2.00		4307.05		43-3 ✓
B-A-#1	164.81	+ 21-40	.92934	153.16	81-28	N61-32W			+ 73.00			- 134.64	49530.58	49948.81	.36920	+ 60.85	+ 3.54	0.00		4364.39		#1 ✓
A-#1-#2	126.78	+ 06-05	.99436	126.06	248-51	N07-19E			+ 125.03		+ 16.05		49655.61	49964.86	.10597	+ 13.43	+ 3.93	0.00		4381.75		#2 ✓
#1-#2-#3	145.53	+ 05-10	.99593	144.94	181-58	N09-17E			+ 143.04		+ 23.38		49798.65	49988.24	.09005	+ 13.10	+ 3.18	0.00		4398.03		#3 ✓
#2-#3-#4	139.76	+ 08-05	.98745	138.01	165-35	N05-08W			+ 137.46			- 12.35	49936.11	49975.89	.15787	+ 22.06	+ 3.40	0.00		4423.49		#4 ✓
#3-#4-#5	126.07	- 02-15	.99922	125.97	212-20	N27-12E			+ 112.04		+ 57.58		50,048.15	50033.47	.03925	- 4.95	+ 3.07	0.00		4421.61		#5 ✓
#4-#5-#6	90.11	- 02-55	.99870	89.99	181-43	N28-55E			+ 78.77		+ 43.51		50126.92	50076.98	.05088	- 4.58	+ 2.98	0.00		4420.01		#6 ✓
	58.65	- 00-50	.99989	58.64	07-36	S34-48W				- 48.15		- 33.47	50,000.00	50,000	.01454	- 0.85		0.00		4423.74		DDH #1 ✓
#5-#6-#7	132.40	+ 06-25	.99573	131.57	137-38	N13-27W			+ 127.96			- 30.60	50254.88	50046.38	.11175	+ 14.80	+ 3.94	0.00		4438.75		#7 ✓
#6-#7-#8	103.21	- 02-40	.99891	103.10	201-05	N07-38E			+ 102.19		+ 13.69		50357.07	50060.07	.04652	- 4.80	+ 3.77	0.00		4437.72		#8 ✓
#7-#8-#9	120.39	- 03-15	.99839	120.20	181-40	N09-18E			+ 118.62		+ 19.42		50475.69	50079.49	.05669	- 6.82	+ 3.46	0.00		4434.36		#9 ✓
#8-#9-#10	93.71	+ 03-25	.99822	93.54	164-45	N05-57W			+ 93.04			- 9.70	50568.73	50069.79	.05959	+ 5.58	+ 3.69	0.00		4443.63		#10 ✓
#9-#10-#11	109.89	- 03-45	.99785	109.65	180-05	N05-52W			+ 109.08			- 11.21	50677.81	50058.58	.06540	- 7.19	+ 3.30	0.00		4439.74		#11 ✓
#10-#11-#12	90.34	- 07-40	.99106	89.53	181-39	N04-13W			+ 89.29			- 6.58	50767.10	50052.00	.13340	- 12.05	+ 3.38	0.00		4431.07		#12 ✓
A-TP14-S3	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.)
O.K. MINE.

LEVEL _____

AUGUST 16/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE N(+)	LATITUDE S(−)	DEPARTURE E(+)	DEPARTURE W(−)	TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.	
#1-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		4298.3		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	✓
TP1-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

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LEVEL SURFACE

AUGUST 19/68

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE N(+)	LATITUDE S(−)	DEPARTURE E(+)	DEPARTURE W(−)	TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. No.
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 ✓
	73.00	+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	+15-30		91.48	159-51	N31-27W			+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	3.47	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-S-2-S-4	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		DESTROYED 22 AUG 68 ~~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	~~S18-34W~~				~~−11.92~~		~~−4.00~~	~~50100.83~~	~~49823.30~~ DESTROYED		~~6.60~~	~~+3.80~~	~~0.00~~ 22	AUG 68	~~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~~ DESTROYED		~~36.94~~	~~3.84~~	~~−3.60~~ 22	AUG 68	~~4527.47~~		~~TP 19~~

SURVEY CALCULATION SHEET — ANCHOR MINES — TAKLA SILVER

~~ALAN MINING Co. Ltd. (N.P.L.)~~ ~~OK MINE~~ · U/G SURVEY 20 AUG 68

LEVEL 4300

COURSE	SLOPE DISTANCE	VERTICAL ANGLE	COS. V. ANGLE	HORIZONTAL DISTANCE	HORIZONTAL ANGLE RIGHT	BEARING	COS BEARING	SIN BEARING	LATITUDE N(+)	LATITUDE S(−)	DEPARTURE E(+)	DEPARTURE W(−)	TOTAL LATITUDE	TOTAL DEPARTURE	SIN. V. ANGLE	VERTICAL DISTANCE	H.I.	H.P.	TIE	STATION ELEVATION	TIE ELEVATION	STN. NO.
B-A-43-1	60.16	+ 02 30		60.10	79°55	N63°-05W			+ 27.20			− 53.59	49,484.78	50029.88		+ 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	N63°05W			+ 44.05			− 86.76	49,501.63	49,936.60	.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	N24°-58W			+ 42.98			− 20.01	49,544.61	49,876.68	.01454	− 0.60	− 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	49979.29		− 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	N40-05W			+ 33.72			− 28.38	49,620.33	49950.91		− 1.35	− 0.71	+ 1.88	− 3.9	4307.07	+ 2-0 −5.8	43.5 ✓
43.4-43.5-43.6	69.00	− 00-45		69.00	194°-28	N25-57W			+ 62.04			− 30.19	49682.37	49920.72		− 0.90	− 0.87	+ 1.71	− 3.9	4307.01	+ 2.10 −5.6	43.6 ✓
43.5-43.6-43.7	87.00	+ 00 40		87.00	185°-54	N20-03 W			+ 81.73			− 29.83	49,764.10	49890.89		+ 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°19	N12-44W			+ 35.40			− 8.00	49799.50	49882.89		+ 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	N04-01W			+ 80.64			− 5.66	49880.14	49877.23		− 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	N12-15W			+ 77.20			− 16.76	49957.34	49860.47		− 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	N04-38W			+ 87.37			− 7.08	50044.71	49853.39		− 0.64	− 1.21	+ 2.91	− 4.0	4312.41	IN BACK −6.9	43.11 ✓
43.10-43.11-43.12	56.36	00 00	1.0	56.36	202°30	N17-52E			+ 53.64		+ 17.29		50098.35	49870.68		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	N44-16W			+ 23.20			− 22.62	50067.91	49830.77		− 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		− 57.95	50067.42	49772.82		+ 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	N75-27W			+ 6.39			− 24.61	50073.81	49748.21		− 0.78	− 1.61	+ 2.03	− 4.5	4312.78	IN BACK −6.5	43.15 ✓
43.14-43.15-43.16	45.86	− 01-15		45.85	256°46	N 04-41 W			+ 45.70			− 3.74	50119.51	49744.47		− 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	(℄ L 3.0' ℄ R 3.0' ℄ 6.1' High)																

NB. △43-6 IS IN LAST TIMBER SET.

SURVEY CALCULATION SHEET — ANCHOR MINES — TAKLA SILVER

~~ALWIN MINING CO. LTD. (N.P.L.)~~
~~O.K. MINE~~

LEVEL 4300
1968

Course	Slope Distance	Vertical Angle	Cos. V. Angle	Horizontal Distance	Horizontal Angle Right	Bearing	Cos Bearing	Sin Bearing	Latitude N(+)	Latitude S(−)	Departure E(+)	Departure W(−)	Total Latitude	Total Departure	Sin. V. Angle	Vertical Distance	H.I.	H.P.	Tie	Station Elevation	Tie Elevation	Stn. No.
B-A − △19	85.87	+ 03-00		85.71	112-31	N 30-29 W			+ 73.86			− 43.48	49531.44	50039.97		+ 5.24	+ 3.35	00	[illegible]	4308.59	@ BELLIVEAU PORTAL	# 19 ✓
B-A − △20	111.96	+ 03-05		111.80	127-24	N 15-36 W			+ 107.68			− 30.07	49565.26	50053.38		+ 6.02	+ 3.35	00	− 6.0	4309.37	@ McKEE (1945) PORTAL	# 20 ✓
43.3-43.4 − 43-4A	16.74	− 07 05		16.61	192-00	N 15-33 E			+ 16.00		+ 4.45		49602.61	49983.74		— 2.06	− 1.23	+ 1.52	SUMP	4305.48	IN OLD ADIT	43-4A ✓

ANCHOR ~ TAKLA

SURVEY DATE Aug 1968

REMARKS: - CHAIN TRAVERSE N. end # 1 ZONE

E. Side of Road to Camp

BS/Δ/F.S.	HORIZ ∠	VERT. ∠	SLOPE DIST.	HORIZ DIST	VERT. DIST.	Ht of Δ	Ht of Point	BEARING Δ/FS	Δ LAT.	Δ DEP.	N	E	EL.	F.S. Δ
18/17/21	37° 04	− 05-30	119.18	118.63	− 11.42	+ 4.55	($\bar{0}.5$) 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	($\bar{0}.5$) 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	($\bar{2}.4$) 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	($\bar{2}.0$) 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	($\bar{2}.1$) 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	($\bar{1}.9$) 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	($\bar{2}.0$) 00	N 00-57 E	+ 181.06	+ 3.00	51643.77	49731.57	4450.04	27 ✓

TRAVERSE TO No 2 ZONE →

Topo

BS/Δ/F.S.	HORIZ ∠	VERT. ∠	SLOPE DIST.	HORIZ DIST	VERT. DIST.	Ht of Δ	Ht of Point	BEARING Δ/FS	Δ LAT.	Δ DEP.	N	E	EL.	F.S. Δ
17/18/18a	115° 25	− 01 35	57.82	57.80	− 1.60	+ 4.12	($\bar{1}.2$) 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	($\bar{2}.3$) 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	($\bar{1}.4$) 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	($\bar{1}.7$) 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	($\bar{1}.4$) 00	N 45-08 W	+ 136.08	− 136.72	51259.11	49110.22	4732.29	32

ANCHOR ~ TAKLA

SURVEY DATE AUGUST 68

R.S. GEORGE DOUGLAS

BS/K/FS	HA	VA	DIST	HD	VD	HI	H Point	Bg K/FS	Δ LAT	Δ DEP	N	E	EL.	PS Δ
		TURN	POINTS	FOR	SECTION	LINES	(STADIA)							
17/18/TP20	28° 13	−24 00	11.3	10.3	−4.6	+3.8	00	SOUTH		40 05	50651.2	49677.66	4652.2	TP 20
TP21	✓	−06 00	112.0	110.7	−11.6	✓	−8.0	✓		00	50551.4	✓	4637.2	TP 21
TP22	✓	−07 10	213.0	209.7	−26.4	✓	−6.0	✓		00	50652.4	✓	4620.4	TP 22
TP23	✓	−06 05	314.0	310.4	−33.2	✓	−5.0	✓		00	50351.7	✓	4618.6	TP 23
TP24	208 13	−05 55	91.0	90.0	−9.4	✓	−12.0	NORTH		00	50752.1	✓	4635.4	TP 24
S-4-S-6-S7	331-53	+06-05	179.0	176.98	+18.92	—	0.00	S 61-53W	−83.40	−156.09	49016.87	50347.50	4099.2	S7
S6-S-7-S8	210-06	+19-15	228.0	203.19	+71.02	—	−6.0	N88-01W	+7.03	−203.05	49023.90	50144.45	4164.2	S8
S-7-S-8-AG INITIAL POST	107-15	−12-15	45.0	42.99	−9.3	—	0.0	S 19-14W	−40.57	−14.15	48983.33	50130.30	4154.9	AG INITIAL POST
S6-S7-TP34	200-06	+19-00	135.0	120.69	+41.55	—	−7.7	S 81-59W	−16.83	−119.51	49000.04	50227.99	4133.1	TP 34