00813

The Warden
Northern Mineral Field.
Dept. of Mines & Energy.

27th. of February, 1995.

Dear Warden

Re: **EXPLORATION LICENCE 8241**

Pursuant to you fax received today, I provide the following:

1. Various survey calculations relative to EL 8241,
2. A segment of my expenditure spread sheet for EL's 8241 & 7902
3. A chronology of my activities to the 1st. of January, 1995.

I provide this data as evidence of my work on EL 8241 pending the production of a formal report. Due to the illness of my youngest offspring, I must fly to Indonesia on Wednesday and I hereby request that you set the matter of the production of a formal report of my activities on EL 8241 aside pending my return.

Sincerely Yours,

J. H. Niddrie

EL7902 / EL 8241

APPLE EXPLORATION & MANAGEMENT PTY. LTD.
DETAILED ACCOUNT OF ACTIVITIES
Period from 10th. of November, 1994, to 1st of January, 1995.

INTRODUCTION

The author is a professional prospector and has been the catalyst in bringing about the formation of a parcel of Mining & Exploration tenements in the Pine Creek Area. The collective titles are referred to here as the "Pine Creek Parcel" and a schedule of the component tenements is enclosed. The philosophy under which the author constructed the parcel centred around the eminent depletion of available ore in the area of Renison's operation in Pine Creek. It was considered feasible that Renison would, on expiry of its own reserves, be amenable to the purchase or toll treatment of parcels of medium to high grade ore from extraneous sources within viable carting distance of its operation. The initial exploration concept was therefore confined to the search for small tonnage, medium to high grade gold deposits such as the Anomaly One prospect on the Rosenhain/Niddrie titles.

To achieve the requirements of his concept, the author was able to obtain the necessary funding to construct the Pine Creek Parcel from two distinct parties. The first of these was the Rosenhain Group consisting of a group of professional people in Sydney. The second was Peel Investments Pty. Ltd. headed by Mr. S. B. Hyman of Tamworth N.S.W. The authors involvement with the Rosenhain Group commenced with the pegging of the Woolwonga mine site near Fountain Head and has continued since that time. His involvement with Peel Investments commenced with Jingellic Minerals N.L's Mount Wells holdings and went on to the pegging of the Union Reefs, Enterprise/Kohinoor and Spring Hill properties for the float of Enterprise Gold Mines N.L. and various projects thereafter. The basic agreement entered into with both parties was that they would fund the author in acquiring and prospecting Exploration titles around Pine Creek in return for a half share of both the titles, and any proceeds arising from them. The author was also able to acquire further titles in his own right with the assistance of his good friend Snowy Fabian.

PACIFIC GOLDMINES N.L. & SANPAGE Pty. Ltd.

In late October, 1993, the author reached verbal agreement with Peel's Mr. Bruce Hyman that he was to use his best endeavours to obtain funding for the execution of the total covenants associated with the Pine Creek Parcel. This led to Mr. Hyman approaching a Mr. John Doughty of Jason Management Pty. Ltd. in December, 1993 who led him to believe, (as far as can be understood), that a moribund public company known as "Pacific Minerals N.L." was available for re-listing and that a stockbroking firm was willing to underwrite it's re-listing based on the acquisition of the Pine Creek Parcel. Mr. Hyman was also informed that seed capital was needed to initiate the proceedings. This seed capital requirement caused Mr. Hyman to seek additional funding from an associate, Mr. Paul McGirr, which then lead to the incorporation of Sanpage Pty. Ltd. An option agreement was subsequently entered into between Sanpage Pty. Ltd. and the various title holders of the Pine Creek Parcel in May 1994. In his "Report to Investors" dated 12th. of November, 1994, Mr. Doughty confirms that $240,000.00 was raised to re-list Pacific Goldmines N.L. Of this total amount, $10,705.00 was actually expended on the exploration of the Pine Creek Titles. The Sanpage Option expired on the 10th. of November, 1994 and a ten day extension was granted to the 20th. of November. There after, the titles became the sole responsibility of their proprietors. A report from Mr. Doughty attempting to substantiate an expenditure on the subject titles by Pacific Goldmines N.L. is appendixed to this report.

CONSULTANTS REPORT

On the 21st of November, 1994, the author made arrangements with Dr. G. R. Orridge to visit, and inspect the Pine Creek Parcel and prepare an exploration proposal over the three titles, EL,s 7902, 8219 and 8241. The covenants pertaining to these titles had not been met and they had passed their first anniversary. Since all three titles had sealed highway access, to a greater or lesser extent, it was proposed that field work could proceed over, (some of), their area well into the coming monsoon. Dr. Orridge and the author proceeded to Pine Creek on the 22nd. of November, 1994 and Dr. Orridge presented the author with a draft of his report on the 24th. of November, 1994. Previous excursions to the afore said titles by the author had revealed the location of three mineral prospects which were, to varying degrees, accessible during the monsoons. These are referred to in Dr. Orridge's report as, the Woolybutt Northwest, the Highway Copper Prospect and the Christmas Creek Extended. Dr. Orridge proposed an expenditure of $26,300.00 to be spent on these three prospects in the period from the 1st of December, 1994 to the 1st. of February, 1995. He further proposes that a further $40,000.00 be spent on the exploration of EL,s 7902, 8219 and 8241 during the five month period from the 1st. of February, 1995 to the 30th. of June, 1995. Dr. Orridge's report is appendixed to this report.

PEEL INVESTMENTS Pty. Ltd. & TARGET EXPLORATION Pty. Ltd.

On the 21st of November, 1994, the author also made arrangements with Mr. Bruce Hyman of Peel Investments Pty. Ltd. to visit Darwin in order to meet with senior Dept. of Mines & Energy officials. The author's request for Mr. Hyman's visit was based on the fact that the chain of events that had brought the Pine Creek Titles to their current neglected state had been the work of a Sydney based regime and the concepts and actions of this regime were better known to Mr. Hyman than to the author. Mr. Hyman and the author visited the Principal Registrar, the Director of Mines, and the Director of Geology and his assistant on, (what is believed to have been), the 28th. of November, 1994. These officials gave Mr. Hyman a courteous and sympathetic hearing within the limitations of the Mining Act, 1980. Mr. Hyman and the author also held private discussions as to the future and development of the Pine Creek Parcel. Mr. Hyman made it clear that Peel Investments had over reached it's resources by providing half of the initial seed capital used in the reconstruction of Pacific Goldmines N.L. and that its pastoral holdings were struggling due to the terrible drought that parts of Australia are currently experiencing. Peel would therefore be stretched in contributing its part of the finance necessary to fund the execution of exploration work sufficient to meet it's half of the total 1994/95 expenditure covenants imposed by the three Exploration Licences which it holds jointly with the author. It should be noted that Peel's three Exploration Licences carry a total 1994/95 expenditure covenant of $63,500.00,of which, the author is liable to find $31,750.00. It should also be noted that the Pine Creek Parcel's 1994/95 total covenant commitment is $139,500.00. Mr Hyman departed Darwin on, (or about), the 29th. of November, 1994 and the total cost of his visit was $2,112.00. Anticipating the brunt of maintaining the Pine Creek Parcel's covenant maintenance, the author had previously set funding negotiations in place on the 17th. of November, 1994. These negotiations were carried out by 'phone between the author and a Sydney based businessman, Mr. T. Roy. The author had had previous associations with Mr. Roy through the Rosenhain group and had enjoyed a mutually beneficial association with him. The basis of the negotiations was that Mr. Roy would acquire half of the authors interests in the Pine Creek Parcel by funding the execution of the authors covenant commitments. Mr. Roy gave his essential agreement to the author's concept on the understanding that it was a purely financial endeavour on his part and that he was to have first call on any financial considerations that the author's Pine Creek Parcel holdings may generate. He also proposed that the author's interests should be housed in a company structure belonging jointly to himself and the author as equal partners. Mr. Roy also indicated that he would discuss the matter with the Rosenhain group and bring those interests into the company structure also. The defined outcome of these negotiations with Mr. Roy was that the major portion of the Pine Creek Parcel would be contained under one entity and that this entity would fund its development. It was agreed that the new entity would be called Target Exploration Pty. Ltd.

COMMENCEMENT OF FIELD WORK ON EXPLORATION LICENCE 8241

In accordance with his word, Mr. Roy transferred $7,500.00 to the author's company's account on the 18th. of November, 1994. On his return from conducting Dr. Orridge's field inspection of the Pine Creek Parcel, the author employed an assistant and commenced detailed preparation for an extended period of field work. It was necessary to carry out preparations with maximum haste due to the imminent onset of the monsoon. Equipment that had been idle for long periods needed to be cleaned and serviced. An old tray canopy was upgraded and fitted to the author's Landcruiser to provide the equipment with some degree of shelter. A trip was made to Pine Creek on the 1st. of December, 1994 and an air-conditioned caravan was rented from Mr. Eddy Ah Toy and was set up on a powered sight in Pine Creek. The caravan cost $70.00 per week including site with power extra. The air-conditioning was found to be inoperable and a new one was latter installed. The current hot and humid temperature enforces the need for an airconditioner as the 'van's major bedroom has been converted to an office and contains computer, printer and drawing board. Neither the van, it's rental or the site can be considered reasonable however, it was all that was available at the time and Mr. Ah Toy required a two months contract. The rent is currently paid to the first of February, 1995 and will probably be extended to March, 1995. When the basic organization of the base camp was completed by early afternoon, a field inspection of the Highway Copper and Woolybutt Northwest areas was attempted. This resulted in the vehicle becoming bogged and the author walking 17 kilometres to Pine Creek to obtain assistance. The assistant remained at the entrance of the track accessing both areas and was collected that evening. The vehicle was retrieved next morning with the assistance of some pet meat shooters from Pine Creek. Having inspected the situation of the base camp and project area. The period from the 2nd. to the 5th. of December was spent purchasing and otherwise obtaining base camp and project requirements. One 8 mm. steel tow rope and one 20 mm. hemp tow rope were made up, the components of the wallaby jack were replaced and serviced and a Turfer winch was ordered. Six second hand tyres and rims were also purchased and the vehicle and tyres were given a major overhaul. The field computer was also upgraded to an 80 meg. hard disk.

ROAD AND WOOLYBUTT NORTHWEST PRIMARY SURVEYS

Author and assistant returned to Pine Creek on the 6th. of December, 1994 and equipment etc was installed at the base camp. Survey of the track diagonally dissecting EL 8241 was commenced. This track is thought to have been constructed by Pine Creek based contractors, Silver Coin Mining' to access coarse granite sand deposits in Copperfield Creek. The track is well made and the author is of the opinion that it will bear use throughout the coming monsoon subject to occasional closure of several creek crossings. A series of 9 primary control points were surveyed along the track till it's departure from the Licence area. A second unclosed traverse consisting of 5 primary control points was run to pick up the old workings in the Woolybutt Northwest project area. The track was also basically mapped in conjunction with the primary traverse and control points were established on the mullock dump of the Highway Copper show and on a large transported spoil heap from a cutting made in the construction of the Stuart Highway. A proportionately large concentrate of cerussite, (a lead carbonate ore), provided by a pan full of mullock from the old Woolybutt Northwest workings revealed that they were put down on a lead occurrence rather than a copper occurrence as was indicated on Pine Creek Goldfields' 1:25,000 mapping of EL 4725. The first of three dishes of material taken from a creek crossing the strike of the old workings revealed a single sizable colour of gold though the next 2 dishes failed to produce a colour although all three produced a tail of cerussite and minor cassiterite, (an oxide ore of tin). The significance of the cerussite occurrence in the creek is that the samples were deliberately taken from a site on the upstream side of the creek from its point of intersection with the feature hosting the old working and its presence might indicate that the feature could host mineralisation, (lead at least), at other points along it's considerable length. The down side is the cassiterite. Subsequent survey of the Woolybutt Northwest project area has revealed that, (what is taken to be), an old surface is present to the adjacent north and northwest of the creek hosting the three sample sights. Experience in the Pine Creek area has revealed that such old topographies often host transported gold and tin. The presence of a single colour of gold is therefore inconclusive.

GENERAL REGIONAL SURVEY PREPARATION

Difficulty had been experienced in the computer's spread sheet survey programme and the author found it necessary to resort to manual means to calculate his survey data. The base camp was also experiencing refrigeration problems and food was spoiling so it was decided to return to Darwin on the 9th. of December, 1994. The author and a consultant spent the better part of the 10th. constructing and commissioning a new survey calculation spread sheet and the remainder of the day was spent mastering it and entering the previous 3.5 day's survey data. The 11th. of December, 1994 was spent preparing 12 x 1:1,000 scale bases covering EL 8241 and plotting existing primary control and mapping data.

To arrive at a co-ordinate system that would allow the whole of the 1:50,000 Topographic Sheet 5270-II to be mapped on a correlated true north orientated X and Y co-ordinate system, the author computed the co-ordinates of each latitude and longitude intersection within the sheet. To achieve this, the south west corner of the sheet area was given the arbitrary co-ordinate value and the northing and easting of each latitude/longitude intersection were calculated from latitude and longitude constants contained in geodatic tables in the authors possession. The overall accuracy of the resulting tables remains to be checked however, total accuracy only becomes a factor in the definition of extraneous Exploration Licence boundary interfaces at which time it will be the neighbours problem.

OBSERVATIONS ON THE HIGHWAY COPPER PROSPECT

Author and assistant returned to Pine Creek on the 12th. of December, 1994 and proceeded to lay out grid control and other survey work on the Woolybutt Northwest project area which was completed on the 14th. and took the survey onto EL 7902. The Highway Copper prospect was mapped in detail on the 15th. and a grid control survey was commenced. Some overlooked secondary survey of the track and other minor details were attended to on the 16th. Whilst executing a detailed survey of the old workings which are referred to here as the Highway Copper Prospect, it was noted that the immediate area had undergone at least two, and possibly three, phases of development.

It would appear to the author that the area had been subjected to minor prospecting activity a good bit prior to the excavation of the underhand stope and collapsed shaft that currently dominate the surface of the prospect. The evidence of this postulation is a prospecting pit offset to the west from the line of the stope, shaft and, (what appears to be), the commencement of a third shaft to the south. This pit appears to have been opened up to inspect some quartz leaders that show obvious signs of copper mineralisation.

It was also noted that, although copper staining was visible in the mullock of the underhand stope and in a scattered heap of weak copper ore to the east of the stope, there was no high grade copper ore in evidence on the surface at all. It is only speculation, (but the possibility exists), that the weak copper ore scattered about the surface was ancillary to the ore actually being sought by the miners that expended the considerable effort, over no short period of time, to excavate the shaft and its, (postulated), interconnecting drive to the open stope as well as such other drives as are inferred by the amount of mullock around the shaft. The author has inspected sufficient old copper workings to know that the copper ore in evidence on these workings would not justify the amount of development evident and can only conclude that whatever ore was sought must have been of sufficient grade and value to ensure that the original miners did not leave a single specimen at surface nor any sign of it in there mullock.

THE SOUTHERN TRAVERSE

The author and his assistant returned to the Highway Copper Prospect on the morning of the 17th. of December, 1994 to check some contentious bearings and departed for Darwin mid morning to collect the author's wife and daughter who were arriving in Australia from Indonesia. Sunday the 18th. was spent with the family and all hands returned to Pine Creek on the 19th. of December, 1994. Author's family was installed in the base camp and the Highway Copper Prospect grid control survey was extended to the south. The baseline was offset some 110 metres to the south west to pick a north south striking quartz breccia zone. Control was established along this zone for some 200 odd metres till outcrop ceased to be evident. Control was then provided over two consecutive areas of quartz float to the south east of the quartz breccia zone. The southern traverse was continued the following morning, (20th). from the last station of the previous evening. The traverse was confined to the solid ground safety of the crest of a south easterly running ridge which led the survey party once again onto Exploration Licence 7902. This unclosed primary traverse was concluded at a haul road leading to a series of gravel pits on the southern boundary of EL 8241. The northern most line of, (what is thought to be), Pine Creek Goldfields Woolybutt Grid was encountered some 200 metres north of this road. The haul road was found to be in excellent condition except that it had been deeply tynned for the first 200 metres from its exit to the Stuart Highway which rendered it inaccessible due to the fact that the tynned area included a flowing creek crossing which would otherwise have been passable. The southern traverse was terminated at mid day due to the oppressively hot conditions and survey did not resume till late afternoon due to rain and was confined to a reconnaissance, (un-serveyed), traverse of the ridges west of the Highway Copper Prospect which revealed an outcrop of favourable looking quartz stock works was located around the common boundary of northern EL 8241 and EL 7902. On the 21st. and 22nd. of January, 1994, the topography and obvious geological features to the west and south of the Highway Copper Prospect. were mapped in detail preparatory to the production of a series of 1:500 map sheets for sampling and detailed geological mapping purposes. On the 23rd, the survey of a geological feature which the author refers to as the "Camp Creek Structure" was commenced. This structure outcrops in a discernible line and appears to be a bed of greywacke. Previous reconnaissance traverses have revealed that the feature runs a considerable distance to the west of the track and is present to the east of the track. A similar feature was encountered during the execution of the southern traverse and, were both features to be the same stratigraphic unit, they would provide a valuable insight into the structual geology of the region. The main creek draining EL 8241, herin after Main Creek, was also surveyed additionally to the survey of its upper reaches during the detailed survey of the Highway Copper Prospect. area. It should be noted that outcrop is poor on EL 8241 and on those adjacent areas of EL 7902 that have been inspected to date. Preliminary traversing has revealed that dip and strike of strata is best observed in the bed of Main Creek and it is proposed that it should be surveyed in detail to allow mapping of the physical geology of the immediate region. Outcrop is also clearly exposed in the creek system draining the Woolybutt Northwest Area and this is to be surveyed mapped in detail. All hands departed Pine Creek bound for Darwin early on the morning of the 24th. of December 1994. The author had been having memory and printing trouble with the field computer since its hard disk had been upgraded. The hard disk of the recently purchased main office computer had previously died of unnatural causes a fortnight previous and had been returned to the supplier. Since the field unit was incapable of preforming it's required function, the main computer was required in order to complete field work and prepare the necessary reports. The author visited the supplier on his return to Darwin and was, (predictably), informed that repairs to the main computer had yet to be completed. The author was loaned second machine for the Christmas break and is therefore condemned to preparing this report without benefit of the data stored in the main unit or its formatting and printing abilities. Data was transferred from the field unit to the new unit and plotted at 1:1,000. A 1:5,000 map of primary traverse points was also prepared over EL 8241 and adjacent EL 7902 areas. No work was carried out on the 25th. of December, 1994, being Christmas Day. On the 26th. of December, all field data was transferred to the borrowed computer, formatted and printed out. This data accompanies this report. The author came down with a severe case of 'flu and was incapable of carrying out any productive duties till the 29th. of December when he commenced the outline of this report then he suffered a relapse till the 1st. of January, 1995, when he commenced this report in earnest. The next three days were spent preparing the text and data tables contained herein.

PINE CREEK EXPLORATION TENEMENT PARCEL
SUMMARIZED CHRONOLOGY OF EVENTS

Period from 10th. of November, 1994, to 1st of January, 1995.

10-Nov-94	Sanpage Option Expires
16-Nov-94	Niddrie transfers $1,000.00 to AEM's account for running expenses
17-Nov-94	Niddrie negotiates the formation of Target Exploration Pty. Ltd. with T. Roy
18-Nov-94	T. Roy transfers $7,500.00 to AEM's account
20-Nov-94	Cullen Minerals N.L. Extended Option Period Expires
21-Nov-94	Niddrie arranges for Dr. Orridge to inspect EL's 7902,8219 & 8241
22-Nov-94	Niddrie & Dr. Orridge to inspect EL's 7902,8219 & 8241
23-Nov-94	Niddrie & assistant commences preparation for Pine Creek Parcel field work
24-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
25-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
26-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
27-Nov-94	Bruce Hyman arrives in Darwin
28-Nov-94	Hyman & Niddrie meet with senior Dept. of Mines & Energy officials
29-Nov-94	Hyman departs. Total cost of visit $2,112.00
30-Nov-94	Preparation for Pine Creek
01-Dec-94	Establishment of Pine Creek Base in van on powered site @ $70.00 per week
02-Dec-94	Bogged overnight. Return to Darwin, upgrade field computer & prepare programme
03-Dec-94	Purchase & repair of field & camp equipment, general preparation
04-Dec-94	Purchase & repair of field & camp equipment, general preparation
05-Dec-94	Purchase & repair of field & camp equipment, general preparation
06-Dec-94	Return to Pine Creek, commence road survey
07-Dec-94	Road Survey
08-Dec-94	Road Survey
09-Dec-94	Return to Darwin, Freezer & gear repair
10-Dec-94	Consultant & Niddrie upgrade computer survey programme
11-Dec-94	Niddrie prepares 1:1,000 map sheets for EL 8241
12-Dec-94	Return to Pine Creek, Commence Woolybutt extended survey
13-Dec-94	Woolybutt extended survey
14-Dec-94	Woolybutt extended survey
15-Dec-94	Highway Copper Prospect Survey
16-Dec-94	Completion of Road Survey
17-Dec-94	Completion of sundry survey & Return to Darwin. Wife & Daughter arrive in Darwin
18-Dec-94	Day off
19-Dec-94	Return to Pine Creek, commenced Southern Traverse
20-Dec-94	Southern Traverse
21-Dec-94	Survey west of Highway Copper Prospect
22-Dec-94	Survey south of Highway Copper Prospect
23-Dec-94	Survey of Camp Creek Structure
24-Dec-94	Return to Darwin
25-Dec-94	Christmas
26-Dec-94	General Office Duties, Talked to T. Roy re further funding
27-Dec-94	Sick with 'flu
28-Dec-94	Sick with 'flu
29-Dec-94	General Office Duties
30-Dec-94	Sick with 'flu, no work
31-Dec-94	Sick with 'flu, no work
01-Jan-95	Production of Progress Report

EXPENSES FOR PERIOD
FROM 10TH. OF NOVEMBER, 1994, TO 1ST OF JANUARY, 1995.

EXPLORATION LICENCES 8241 & 7902

ACCOUNT FOR PERIOD 21/11/94 - 24/12/94

J. NIDDRIE	31 DAYS @ $250.00 P/D	$7,750.00
LABOUR	28 DAYS @ $150.00 P/D	$4,200.00
VEHICLE HIRE	31 DAYS @ $100.00 P/D	$3,100.00
EQUIPMENT HIRE	31 DAYS @ $50.00 P/D	$1,550.00
CONSUMABLES ETC		$4,196.15
OVERHEADS		$2,836.55
TOTAL		**$23,632.70**

APPLE EXPLORATION & MANAGEMENT EXPENDITURE

16-Nov-94	000706	$80.00	GENERAL RUNNING EXPENSES
18-Nov-94	000707	$100.00	GENERAL RUNNING EXPENSES
23-Nov-94	000709	$40.00	OFFICE CLEANING
24-Nov-94	000710	$33.34	PAINT FOR CANOPY
24-Nov-94	000711	$100.00	CANOPY WELDING
25-Nov-94	000712	$100.00	PAINTING OF CANOPY
29-Nov-94	000714	$180.96	TELECOM
29-Nov-94	000715	$122.79	ELECTRICITY
30-Nov-94	000718	$40.00	OFFICE CLEANING
30-Nov-94	000719	$197.00	SPARE SWAG FOR ASSISTANT
30-Nov-94	000720	$45.00	AIR SCOOP FOR VEHICLE
1-Dec-94		$9.20	ACCOUNT KEEPING FEE
1-Dec-94		$5.10	CREDIT TAX
1-Dec-94		$7.35	DEBIT TAX
2-Dec-94	000724	$15.00	WHEEL BALANCE
2-Dec-94	000725	$530.00	COMPUTER & PRINTER REPAIR
5-Dec-94	000729	$73.60	STEEL TOW ROPE
5-Dec-94	000730	$80.00	ELECTRIC FRYING PAN
5-Dec-94	000732	$60.00	OFFICE MAINTENANCE
9-Dec-94	000734	$290.00	PORTABLE FREEZER REPAIR
9-Dec-94	000735	$45.00	OFFICE AIRCON REPAIR
12-Dec-94	000739	$110.20	OPTUS
13-Dec-94	000740	$284.00	TURFER WINCH
19-Dec-94	000743	$148.01	ELECTRICITY
19-Dec-94	000745	$140.00	PRINTER BOX & TABLES
TOTAL		**$2,836.55**	

PINE CREEK PARCEL EXPENDITURE

21-Nov-94	000708	$200.00	CONSULTANT'S PINE CK. EXP.
25-Nov-94	000713	$500.00	PINE CREEK EXPENSES
29-Nov-94	000716	$80.10	FUEL
29-Nov-94	000717	$200.00	PINE CREEK EXPENSES
30-Nov-94	000721	$294.85	EDM BATTERY &GRAPH PAPER
1-Dec-94	000723	$280.00	1 MONTH RENT PINE CK ACCOM.
2-Dec-94	000726	$100.00	GENERAL EXPENSES
5-Dec-94	000727	$800.00	CONSULTANTS REPORTS
5-Dec-94	000728	$228.80	SURVEY CONSUMABLES
5-Dec-94	000731	$500.00	PINE CREEK EXPENSES
6-Dec-94	000733	$44.72	FUEL
12-Dec-94	000736	$131.04	GRAPH PAPER
12-Dec-94	000738	$66.00	FUEL
13-Dec-94	000741	$280.00	1 MONTH RENT PINE CK ACCOM.
14-Dec-94	000742	$178.64	FUEL ACCOUNT IN PINE CREEK
19-Dec-94	000744	$200.00	GENERAL EXPENSES
20-Dec-94	000746	$112.00	FUEL
TOTAL		**$4,196.15**	

INCOME

16-Nov-94	$65.68	0PENING BALANCE
16-Nov-94	$1,000.00	MASTER CARD CASH ADVANCE
18-Nov-94	$7,500.00	T. ROY ADVANCE
TOTAL	**$8,565.68**	

EXPENDITURE BREAKDOWN

OFFICE OVERHEADS

16-Nov-94	000706	$80.00	GENERAL RUNNING EXPENSES
18-Nov-94	000707	$100.00	GENERAL RUNNING EXPENSES
23-Nov-94	000709	$40.00	OFFICE CLEANING
30-Nov-94	000718	$40.00	OFFICE CLEANING
29-Nov-94	000714	$180.96	TELECOM
29-Nov-94	000715	$122.79	ELECTRICITY
1-Dec-94		$9.20	ACCOUNT KEEPING FEE
1-Dec-94		$5.10	CREDIT TAX
1-Dec-94		$7.35	DEBIT TAX
12-Dec-94	000739	$110.20	OPTUS
5-Dec-94	000732	$60.00	OFFICE MAINTENANCE
9-Dec-94	000735	$45.00	OFFICE AIRCON REPAIR
19-Dec-94	000743	$148.01	ELECTRICITY
TOTAL		**$948.61**	

VEHICLE

24-Nov-94	000710	$33.34	PAINT FOR CANOPY
24-Nov-94	000711	$100.00	CANOPY WELDING
25-Nov-94	000712	$100.00	PAINTING OF CANOPY
30-Nov-94	000720	$45.00	AIR SCOOP FOR VEHICLE
2-Dec-94	000724	$15.00	WHEEL BALANCE
5-Dec-94	000729	$73.60	STEEL TOW ROPE
13-Dec-94	000740	$284.00	TURFER WINCH
TOTAL		**$650.94**	

PINE CREEK ACCOMMODATION

30-Nov-94	000719	$197.00	SPARE SWAG FOR ASSISTANT
5-Dec-94	000730	$80.00	ELECTRIC FRYING PAN
9-Dec-94	000734	$290.00	PORTABLE FREEZER REPAIR
TOTAL		**$567.00**	

FIELD COMPUTER

2-Dec-94	000725	$530.00	COMPUTER & PRINTER REPAIR
19-Dec-94	000745	$140.00	PRINTER BOX & TABLES
TOTAL		**$670.00**	

CONSULTANTS REPORT

21-Nov-94	000708	$200.00	CONSULTANT'S PINE CK. EXP.
5-Dec-94	000727	$800.00	CONSULTANTS REPORTS
TOTAL		**$1,000.00**	

CASH DRAWINGS

25-Nov-94	000713	$500.00	PINE CREEK EXPENSES
29-Nov-94	000717	$200.00	PINE CREEK EXPENSES
2-Dec-94	000726	$100.00	GENERAL EXPENSES
5-Dec-94	000731	$500.00	PINE CREEK EXPENSES
19-Dec-94	000744	$200.00	GENERAL EXPENSES
TOTAL		**$1,500.00**	

FUEL

29-Nov-94	000716	$80.10	FUEL
6-Dec-94	000733	$44.72	FUEL
12-Dec-94	000738	$66.00	FUEL
14-Dec-94	000742	$178.64	FUEL ACCOUNT IN PINE CREEK
20-Dec-94	000746	$112.00	FUEL
TOTAL		$481.46	

SURVEY CONSUMABLES

30-Nov-94	000721	$294.85	EDM BATTERY &GRAPH PAPER
5-Dec-94	000728	$228.80	SURVEY CONSUMABLES, (PEGS ETC)
12-Dec-94	000736	$131.04	GRAPH PAPER
TOTAL		$654.69	

CARAVAN RENTAL TO 1/2/95

1-Dec-94	000723	$280.00	1 MONTH RENT PINE CK ACCOM.
13-Dec-94	000741	$280.00	1 MONTH RENT PINE CK ACCOM.
TOTAL		$560.00	

TITLES MANAGEMENT

PINE CREEK PARCEL
SCHEDULE OF MINERAL CLAIMS

TITLE	STATUS	GRANTED	EXPIRES	PROPRIETOR	AREA
3956	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	40 ha.
3957	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	40 ha.
3958	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	36 ha.
3959	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	40 ha.
3960	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	24 ha.
3961	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	35 ha.
3962	Granted	30/07/91	29/07/96	N.F.Rosenhain & J.H.Niddrie	12 ha.
4882	Application	-	-	N.F.Rosenhain	21 ha.
4883	Application	-	-	N.F.Rosenhain	32 ha.
4884	Application	-	-	N.F.Rosenhain	27 ha.
4885	Application	-	-	N.F.Rosenhain	30 ha.

PINE CREEK PARCEL
SCHEDULE OF EXPLORATION LICENCES

TITLE	STATUS	GRANTED	EXPIRES	PROPRIETOR	BLOCKS
7479	Granted	16/08/91	15/08/96	N.F.Rosenhain	3
7902	Granted	22/10/93	21/10/99	Peel Investments Pty. Ltd.	11
8219	Granted	26/10/93	25/10/99	J.W. Benger	8
8230	Granted	08/02/94	07/02/00	Peel Investments Pty. Ltd.	15
8241	Granted	09/02/94	08/02/96	J.H. Niddrie	1
8349	Granted	24/12/93	23/12/97	J.H. Niddrie	5
8548	Granted	09/02/94	08/02/97	Peel Investments Pty. Ltd.	2
8350	Application	-	-	Peel Investments Pty. Ltd.	7

PRIMARY TRAVERSE POINTS

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	001	008º	30'	00"		12,815.174	12,390.822	Starting Bearing
3	002	168º	43'	30"	174.815	12,643.733	12,425.002	Back sight to 001
4	003	208º	41'	15"	435.873	12,261.363	12,215.768	Back sight to 002
5	004	208º	46'	15"	249.497	12,042.666	12,095.684	Back sight to 003
6	005	210º	14'	15"	159.387	11,904.964	12,015.419	Back sight to 004
7	006	210º	11'	00"	319.458	11,628.818	11,854.805	Back sight to 005
8	007	215º	23'	00"	393.398	11,308.082	11,627.011	Back sight to 006
9	008	223º	03'	00"	69.031	11,257.637	11,579.887	Back sight to 007
10	009	217º	09'	30"	318.780	11,003.579	11,387.338	Back sight to 008
11	010	275º	26'	15"	97.736	11,266.899	11,482.592	Back sight to 008
12	011	281º	42'	00"	244.201	11,307.158	11,340.761	Back sight to 008
13	012	305º	54'	15"	236.257	11,445.706	11,149.393	Back sight to 011
14	013	322º	02'	45"	157.655	11,570.018	11,052.430	Back sight to 012
15	014	234º	58'	30"	31.186	11,552.119	11,026.892	Back sight to 013
16	015	294º	35'	15"	37.382	11,585.572	11,018.438	Back sight to 013
17	HC1	243º	35'	00"	111.763	12,594.010	12,324.909	HC1
18	HC3	009º	58'	30"	8.823	12,602.700	12,326.437	HC1-HC3
19	HC5	155º	52'	00"	9.947	12,593.622	12,330.504	HC3-HC5
20	HC6	155º	52'	00"	84.873	12,516.167	12,365.206	HC5-HC6
21	HC7	245º	52'	00"	129.282	12,540.764	12,212.522	HC5-HC7
22	HC8	335º	52'	00"	146.079	12,726.933	12,270.778	HC5-HC8
23	HC9	065º	52'	00"	89.772	12,630.326	12,412.430	HC5-HC9
24	HC10	155º	52'	00"	190.017	12,342.759	12,442.896	HC6-HC10
25	HC11	223º	06'	00"	105.903	12,265.432	12,370.535	HC10-HC11
26	HC12	179º	12'	30"	81.166	12,184.274	12,371.657	HC11-HC12
27	HC13	177º	27'	30"	137.62	12,046.790	12,377.760	HC12-HC13
28	HC14	168º	20'	30"	104.96	11,943.995	12,398.969	HC13-HC14
29	HC15	116º	03'	00"	96.54	11,901.599	12,485.702	HC14-HC15
30	HC16	157º	28'	45"	132.252	11,779.432	12,536.357	HC15-HC16
31	HC17	114º	46'	15"	116.523	11,730.610	12,642.159	HC16-HC17
32	HC18	151º	44'	15"	100.559	11,642.039	12,689.775	HC17-HC18
33	HC19	167º	47'	15"	91.652	11,552.462	12,709.163	HC18-HC19

PRIMARY TRAVERSE POINTS

	A	B	C	D	E	F	G	H
34	**Station**	**True bearing**			**True dist**	**Northing**	**Easting**	**Description**
35	**HC20**	156º	59'	30"	247.541	11,324.613	12,805.918	HC19-HC20
36	**004/A**	274º	49'	15"	95.483	12,050.690	12,000.538	004-004/A
37	**004/B**	104º	50'	45"	109.866	12,014.516	12,201.882	004-004/B
38	**004/C**	85	54	30	95.141	12,021.305	12,296.781	004/C
39	**004/D**	210	52	00	94.861	11,933.091	12,153.214	004/D

14/6-II Lat/Long Co-Ords

	131º 45' 00"		131º 46' 00"		131º 47' 00"		131º 48' 00"	
	Northing	Easting	Northing	Easting	Northing	Easting	Northing	Easting
13º 45' 00"	29,503.608	1,802.502	29,503.608	3,605.005	29,503.608	5,407.507	29,503.608	7,210.010
13º 46' 00"	27,659.649	1,802.375	27,659.649	3,604.750	27,659.649	5,407.125	27,659.649	7,209.499
13º 47' 00"	25,815.689	1,802.247	25,815.689	3,604.494	25,815.689	5,406.742	25,815.689	7,208.989
13º 48' 00"	23,971.730	1,802.119	23,971.730	3,604.239	23,971.730	5,406.358	23,971.730	7,208.477
13º 49' 00"	22,127.771	1,801.991	22,127.771	3,603.983	22,127.771	5,405.974	22,127.771	7,207.965
13º 50' 00"	20,283.811	1,801.863	20,283.811	3,603.726	20,283.811	5,405.589	20,283.811	7,207.452
13º 51' 00"	18,439.852	1,801.735	18,439.852	3,603.470	18,439.852	5,405.204	18,439.852	7,206.939
13º 52' 00"	16,595.892	1,801.606	16,595.892	3,603.213	16,595.892	5,404.819	16,595.892	7,206.425
13º 53' 00"	14,751.933	1,801.478	14,751.933	3,602.955	14,751.933	5,404.433	14,751.933	7,205.911
13º 54' 00"	12,907.973	1,801.349	12,907.973	3,602.698	12,907.973	5,404.047	12,907.973	7,205.395
13º 55' 00"	11,064.014	1,801.220	11,064.014	3,602.440	11,064.014	5,403.660	11,064.014	7,204.880
13º 56' 00"	9,220.055	1,801.091	9,220.055	3,602.182	9,220.055	5,403.273	9,220.055	7,204.363
13º 57' 00"	7,376.095	1,800.962	7,376.095	3,601.923	7,376.095	5,402.885	7,376.095	7,203.846
13º 58' 00"	5,532.136	1,800.832	5,532.136	3,601.665	5,532.136	5,402.497	5,532.136	7,203.329
13º 59' 00"	3,688.176	1,800.703	3,688.176	3,601.405	3,688.176	5,402.108	3,688.176	7,202.811
14º 00' 00"	1,844.217	1,800.573	1,844.217	3,601.146	1,844.217	5,401.719	1,844.217	7,202.292
	131º 49' 00"		131º 50' 00"		131º 51' 00"		131º 52' 00"	
13º 45' 00"	29,503.608	9,012.512	29,503.608	10,815.015	29,503.608	12,617.517	29,503.608	14,420.019
13º 46' 00"	27,659.649	9,011.874	27,659.649	10,814.249	27,659.649	12,616.624	27,659.649	14,418.999
13º 47' 00"	25,815.689	9,011.236	25,815.689	10,813.483	25,815.689	12,615.730	25,815.689	14,417.977
13º 48' 00"	23,971.730	9,010.596	23,971.730	10,812.716	23,971.730	12,614.835	23,971.730	14,416.954
13º 49' 00"	22,127.771	9,009.956	22,127.771	10,811.948	22,127.771	12,613.939	22,127.771	14,415.930
13º 50' 00"	20,283.811	9,009.316	20,283.811	10,811.179	20,283.811	12,613.042	20,283.811	14,414.905
13º 51' 00"	18,439.852	9,008.674	18,439.852	10,810.409	18,439.852	12,612.143	18,439.852	14,413.878
13º 52' 00"	16,595.892	9,008.031	16,595.892	10,809.638	16,595.892	12,611.244	16,595.892	14,412.850
13º 53' 00"	14,751.933	9,007.388	14,751.933	10,808.866	14,751.933	12,610.344	14,751.933	14,411.821
13º 54' 00"	12,907.973	9,006.744	12,907.973	10,808.093	12,907.973	12,609.442	12,907.973	14,410.791
13º 55' 00"	11,064.014	9,006.100	11,064.014	10,807.320	11,064.014	12,608.539	11,064.014	14,409.759
13º 56' 00"	9,220.055	9,005.454	9,220.055	10,806.545	9,220.055	12,607.636	9,220.055	14,408.727
13º 57' 00"	7,376.095	9,004.808	7,376.095	10,805.770	7,376.095	12,606.731	7,376.095	14,407.693
13º 58' 00"	5,532.136	9,004.161	5,532.136	10,804.994	5,532.136	12,605.826	5,532.136	14,406.658
13º 59' 00"	3,688.176	9,003.514	3,688.176	10,804.216	3,688.176	12,604.919	3,688.176	14,405.622
14º 00' 00"	1,844.217	9,002.865	1,844.217	10,803.438	1,844.217	12,604.011	1,844.217	14,404.584

	131º 53' 00"		131º 54' 00"		131º 55' 00"		131º 56' 00"	
	Northing	Easting	Northing	Easting	Northing	Easting	Northing	Easting
13º 45' 00"	29,503.608	16,222.522	29,503.608	18,025.024	29,503.608	19,827.527	29,503.608	21,630.029
13º 46' 00"	27,659.649	16,221.374	27,659.649	18,023.749	27,659.649	19,826.123	27,659.649	21,628.498
13º 47' 00"	25,815.689	16,220.225	25,815.689	18,022.472	25,815.689	19,824.719	25,815.689	21,626.966
13º 48' 00"	23,971.730	16,219.073	23,971.730	18,021.193	23,971.730	19,823.312	23,971.730	21,625.431
13º 49' 00"	22,127.771	16,217.922	22,127.771	18,019.913	22,127.771	19,821.904	22,127.771	21,623.895
13º 50' 00"	20,283.811	16,216.768	20,283.811	18,018.631	20,283.811	19,820.494	20,283.811	21,622.357
13º 51' 00"	18,439.852	16,215.613	18,439.852	18,017.348	18,439.852	19,819.083	18,439.852	21,620.817
13º 52' 00"	16,595.892	16,214.456	16,595.892	18,016.063	16,595.892	19,817.669	16,595.892	21,619.275
13º 53' 00"	14,751.933	16,213.299	14,751.933	18,014.777	14,751.933	19,816.254	14,751.933	21,617.732
13º 54' 00"	12,907.973	16,212.140	12,907.973	18,013.489	12,907.973	19,814.837	12,907.973	21,616.186
13º 55' 00"	11,064.014	16,210.979	11,064.014	18,012.199	11,064.014	19,813.419	11,064.014	21,614.639
13º 56' 00"	9,220.055	16,209.818	9,220.055	18,010.909	9,220.055	19,811.999	9,220.055	21,613.090
13º 57' 00"	7,376.095	16,208.655	7,376.095	18,009.616	7,376.095	19,810.578	7,376.095	21,611.539
13º 58' 00"	5,532.136	16,207.490	5,532.136	18,008.323	5,532.136	19,809.155	5,532.136	21,609.987
13º 59' 00"	3,688.176	16,206.324	3,688.176	18,007.027	3,688.176	19,807.730	3,688.176	21,608.433
14º 00' 00"	1,844.217	16,205.157	1,844.217	18,005.730	1,844.217	19,806.303	1,844.217	21,606.876

	131º 57' 00"		131º 58' 00"		131º 59' 00"		132º 00' 00"	
13º 45' 00"	29,503.608	23,432.531	29,503.608	25,235.034	29,503.608	27,037.536	29,503.608	27,037.536
13º 46' 00"	27,659.649	23,430.873	27,659.649	25,233.248	27,659.649	27,035.623	27,659.649	27,035.623
13º 47' 00"	25,815.689	23,429.213	25,815.689	25,231.461	25,815.689	27,033.708	25,815.689	27,033.708
13º 48' 00"	23,971.730	23,427.550	23,971.730	25,229.670	23,971.730	27,031.789	23,971.730	27,031.789
13º 49' 00"	22,127.771	23,425.887	22,127.771	25,227.878	22,127.771	27,029.869	22,127.771	27,029.869
13º 50' 00"	20,283.811	23,424.221	20,283.811	25,226.084	20,283.811	27,027.947	20,283.811	27,027.947
13º 51' 00"	18,439.852	23,422.552	18,439.852	25,224.287	18,439.852	27,026.022	18,439.852	27,026.022
13º 52' 00"	16,595.892	23,420.881	16,595.892	25,222.488	16,595.892	27,024.094	16,595.892	27,024.094
13º 53' 00"	14,751.933	23,419.210	14,751.933	25,220.688	14,751.933	27,022.165	14,751.933	27,022.165
13º 54' 00"	12,907.973	23,417.535	12,907.973	25,218.884	12,907.973	27,020.233	12,907.973	27,020.233
13º 55' 00"	11,064.014	23,415.859	11,064.014	25,217.079	11,064.014	27,018.299	11,064.014	27,018.299
13º 56' 00"	9,220.055	23,414.181	9,220.055	25,215.272	9,220.055	27,016.363	9,220.055	27,016.363
13º 57' 00"	7,376.095	23,412.501	7,376.095	25,213.463	7,376.095	27,014.424	7,376.095	27,014.424
13º 58' 00"	5,532.136	23,410.819	5,532.136	25,211.652	5,532.136	27,012.484	5,532.136	27,012.484
13º 59' 00"	3,688.176	23,409.135	3,688.176	25,209.838	3,688.176	27,010.541	3,688.176	27,010.541
14º 00' 00"	1,844.217	23,407.449	1,844.217	25,208.022	1,844.217	27,008.595	1,844.217	27,008.595

ROAD SURVEY
Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
001			12,815.174	12,390.822	Starting Bearing
1/2	317º 29' 30"	258.807	13,005.961	12,215.947	Centerline of Stuart H/way
1/3	318º 15' 00"	258.965	13,008.377	12,218.382	North Side of Highway
1/4	316º 45' 00"	258.525	13,003.476	12,213.685	South Side of Highway
1/5	041º 15' 00"	15.301	12,826.678	12,400.911	North Side of Highway
1/6	042º 20' 00"	8.443	12,821.415	12,396.508	South Side of Highway
1/7	131º 42' 00"	208.321	12,676.593	12,546.362	Centerline of Stuart H/way
1/8	130º 41' 00"	208.368	12,679.344	12,548.832	North Side of Highway
1/9	132º 33' 00"	207.995	12,674.521	12,544.049	South Side of Highway
1/10	169º 47' 00"	172.899	12,645.017	12,421.489	Edge of Track
1/11	171º 14' 00"	171.215	12,645.959	12,416.917	Edge of Track
1/12	167º 58' 00"	149.657	12,668.806	12,422.023	Edge of Track
1/13	169º 28' 00"	148.626	12,669.053	12,417.992	Edge of Track
1/14	166º 20' 30"	130.135	12,688.719	12,421.551	Edge of Track
1/15	167º 59' 00"	128.551	12,689.440	12,417.586	Edge of Track
1/16	163º 21' 00"	107.550	12,712.133	12,421.638	Edge of Track
1/17	165º 28' 00"	106.237	12,712.336	12,417.481	Edge of Track
1/18	159º 33' 00"	85.181	12,735.361	12,420.584	Edge of Track
1/19	162º 34' 00"	83.673	12,735.344	12,415.890	Edge of Track
1/20	152º 57' 00"	61.744	12,760.185	12,418.901	Edge of Track
1/21	156º 24' 30"	59.903	12,760.278	12,414.796	Edge of Track
1/22	114º 25' 30"	24.344	12,805.108	12,412.987	Track-H/way (C/L track)
002	168º 43' 30"	174.815	12,643.733	12,425.002	Back sight to 001
2/1	223º 12' 30"	14.902	12,632.871	12,380.619	Edge of Track
2/2	207º 15' 30"	13.259	12,631.946	12,384.749	Edge of Track
2/3	211º 54' 30"	34.779	12,614.209	12,372.439	Edge of Track
2/4	201º 54' 30"	36.274	12,610.078	12,377.287	Edge of Track
2/5	210º 31' 00"	79.093	12,575.596	12,350.659	Edge of Track
2/6	206º 25' 00"	79.850	12,572.221	12,355.297	Edge of Track
2/7	210º 07' 00"	134.744	12,527.179	12,323.213	Edge of Track
2/8	208º 01' 00"	134.947	12,524.600	12,327.434	Edge of Track
2/9	209º 53' 00"	179.886	12,487.765	12,301.197	Edge of Track
2/10	208º 16' 30"	180.097	12,485.125	12,305.510	Edge of Track
2/11	209º 48' 00"	275.837	12,404.372	12,253.738	Bank of Creek
2/12	209º 57' 30"	279.159	12,401.873	12,251.419	Bank of Creek
2/13	208º 44' 30"	280.595	12,397.708	12,255.895	Bank of Creek
2/14	208º 45' 00"	283.261	12,395.390	12,254.577	Bank of Creek
2/15	209º 37' 00"	366.154	12,325.417	12,209.871	Bank of Creek
2/16	208º 48' 30"	366.182	12,322.871	12,214.366	Bank of Creek
2/17	057º 40' 00"	34.820	12,662.356	12,420.243	Edge of Old Track
2/18	067º 26' 30"	36.984	12,657.921	12,424.976	Edge of Old Track
2/19	133º 19' 30"	13.495	12,634.473	12,400.639	Edge of Old Track
2/20	133º 09' 30"	7.242	12,638.779	12,396.105	Edge of Old Track
HC1	243º 35' 00"	111.755	12,594.014	12,290.737	Highway Copper HC1
HC2	186º 39' 30"	124.164	12,520.406	12,376.425	Highway Copper HC2
003	208º 41' 15"	435.815	12,261.414	12,215.796	Back sight to 002
3/1	212º 29' 45"	43.398	12,224.811	12,192.481	Edge of Track
3/1	205º 13' 15"	44.880	12,220.812	12,196.673	Edge of Track
3/3	209º 28' 45"	115.919	12,160.502	12,158.752	Edge of Track
3/4	206º 55' 45"	117.184	12,156.936	12,162.725	Edge of Track
3/5	208º 57' 15"	174.584	12,108.651	12,131.278	Centre of Creek
3/6	206º 57' 45"	177.345	12,103.346	12,135.387	Centre of Creek
004	208º 46' 15"	249.464	12,042.745	12,095.727	Back sight to 003

ROAD SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
4/1	374º 04' 15"	16.047	12,058.311	12,099.629	Edge of Track
4/2	035º 09' 45"	17.026	12,056.664	12,105.532	Edge of Track
4/3	213º 36' 15"	80.158	11,975.983	12,051.364	Edge of Track
4/4	208º 51' 45"	81.406	11,971.452	12,056.432	Edge of Track
005	210º 14' 15"	319.470	11,766.741	11,934.847	Back sight to 004
5/1	213º 39' 30"	59.057	11,717.584	11,902.115	Edge of Track
5/2	206º 03' 15"	59.248	11,713.514	11,908.824	Edge of Track
5/3	211º 03' 30"	125.019	11,659.644	11,870.348	Centre of Creek
5/4	208º 34' 30"	125.023	11,656.947	11,875.047	Centre of Creek
5/5	210º 39' 15"	188.320	11,604.737	11,838.831	Edge of Track
5/6	208º 59' 15"	188.374	11,601.965	11,843.557	Edge of Track
006	210º 11' 00"	319.470	11,490.584	11,774.227	Back sight to 005
6/1	028º 10' 15"	75.212	11,556.887	11,809.735	Edge of Track
6/2	032º 49' 00"	74.818	11,553.462	11,814.775	Edge of Track
6/3	222º 51' 30"	41.604	11,460.087	11,745.929	Edge of Track
6/4	215º 22' 15"	41.428	11,456.803	11,750.246	Edge of Track
6/5	216º 41' 15"	199.052	11,330.964	11,655.304	Centre of Creek
6/6	215º 27' 30"	200.576	11,327.208	11,657.871	Centre of Creek
6/7	216º 27' 00"	280.594	11,264.881	11,607.520	Edge of Track
6/8	215º 20' 00"	280.741	11,261.555	11,611.866	Edge of Track
007	215º 23' 00"	393.354	11,169.884	11,546.458	Back sight to 006
008	223º 03' 00"	69.003	11,119.460	11,499.354	Back sight to 007
8/1	223º 51' 00"	262.754	10,929.973	11,317.326	Edge of Track
8/2	225º 18' 00"	262.714	10,934.668	11,312.617	Edge of Track
8/3	224º 16' 00"	218.897	10,962.708	11,346.564	Edge of Track
8/4	225º 24' 15"	218.910	10,965.763	11,343.474	Edge of Track
8/5	224º 40' 30"	168.885	10,999.365	11,380.614	Edge of Track
8/6	225º 50' 00"	168.646	11,001.956	11,378.382	Edge of Track
8/7	224º 13' 00"	123.216	11,031.150	11,413.427	Edge of Track
8/8	226º 28' 30"	114.642	11,040.509	11,416.230	Edge of Track
8/9	222º 13' 30"	86.048	11,055.740	11,441.526	Edge of Track
8/10	225º 13' 00"	84.250	11,060.112	11,439.555	Creek
8/11	218º 49' 45"	51.506	11,079.336	11,467.060	Creek
8/12	225º 21' 00"	50.877	11,083.705	11,463.160	Edge of Track
8/13	206º 27' 00"	21.392	11,100.307	11,489.826	Edge of Track
8/14	220º 43' 00"	19.619	11,104.590	11,486.557	Edge of Track
8/15	058º 28' 00"	27.071	11,133.618	11,522.428	Edge of Track
8/16	045º 17' 30"	26.706	11,138.248	11,518.334	Edge of Track
009	181º 46' 30"	318.786	10,800.827	11,489.480	Back sight to 008

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	001					12,815.174	12,390.822	Starting Bearing
3	1/2	317	29	30	258.807	13,005.961	12,215.947	Centerline of Stuart H/way
4	1/3	318	15	00	258.965	13,008.377	12,218.382	North Side of Highway
5	1/4	316	45	00	258.525	13,003.476	12,213.685	South Side of Highway
6	1/5	041	15	00	15.301	12,826.678	12,400.911	North Side of Highway
7	1/6	042	20	00	8.443	12,821.415	12,396.508	South Side of Highway
8	1/7	131	42	00	208.321	12,676.593	12,546.362	Centerline of Stuart H/way
9	1/8	130	41	00	208.368	12,679.344	12,548.832	North Side of Highway
10	1/9	132	33	00	207.995	12,674.521	12,544.049	South Side of Highway
11	1/10	169	47	00	172.899	12,645.017	12,421.489	Edge of Track
12	1/11	171	14	00	171.215	12,645.959	12,416.917	Edge of Track
13	1/12	167	58	00	149.657	12,668.806	12,422.023	Edge of Track
14	1/13	169	28	00	148.626	12,669.053	12,417.992	Edge of Track
15	1/14	166	20	30	130.135	12,688.719	12,421.551	Edge of Track
16	1/15	167	59	00	128.551	12,689.440	12,417.586	Edge of Track
17	1/16	163	21	00	107.550	12,712.133	12,421.638	Edge of Track
18	1/17	165	28	00	106.237	12,712.336	12,417.481	Edge of Track
19	1/18	159	33	00	85.181	12,735.361	12,420.584	Edge of Track
20	1/19	162	34	00	83.673	12,735.344	12,415.890	Edge of Track
21	1/20	152	57	00	61.744	12,760.185	12,418.901	Edge of Track
22	1/21	156	24	30	59.903	12,760.278	12,414.796	Edge of Track
23	1/22	114	25	30	24.344	12,805.108	12,412.987	Track-H/way (C/L track)
24	002	168	43	30	174.815	12,643.733	12,425.002	Back sight to 001
25	2/1	223	12	30	14.902	12,632.871	12,380.619	Edge of Track
26	2/2	207	15	30	13.259	12,631.946	12,384.749	Edge of Track
27	2/3	211	54	30	34.779	12,614.209	12,372.439	Edge of Track
28	2/4	201	54	30	36.274	12,610.078	12,377.287	Edge of Track
29	2/5	210	31	00	79.093	12,575.596	12,350.659	Edge of Track
30	2/6	206	25	00	79.850	12,572.221	12,355.297	Edge of Track
31	2/7	210	07	00	134.744	12,527.179	12,323.213	Edge of Track
32	2/8	208	01	00	134.947	12,524.600	12,327.434	Edge of Track
33	2/9	209	53	00	179.886	12,487.765	12,301.197	Edge of Track

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
34	Station	True bearing			True dist	Northing	Easting	Description
35	2/10	208	16	30	180.097	12,485.125	12,305.510	Edge of Track
36	2/11	209	48	00	275.837	12,404.372	12,253.738	Bank of Creek
37	2/12	209	57	30	279.159	12,401.873	12,251.419	Bank of Creek
38	2/13	208	44	30	280.595	12,397.708	12,255.895	Bank of Creek
39	2/14	208	45	00	283.261	12,395.390	12,254.577	Bank of Creek
40	2/15	209	37	00	366.154	12,325.417	12,209.871	Bank of Creek
41	2/16	208	48	30	366.182	12,322.871	12,214.366	Bank of Creek
42	2/17	057	40	00	34.820	12,662.356	12,420.243	Edge of Old Track
43	2/18	067	26	30	36.984	12,657.921	12,424.976	Edge of Old Track
44	2/19	133	19	30	13.495	12,634.473	12,400.639	Edge of Old Track
45	2/20	133	09	30	7.242	12,638.779	12,396.105	Edge of Old Track
46	HC1	243	35	00	111.755	12,594.014	12,290.737	Highway Copper HC1
47	HC2	186	39	30	124.164	12,520.406	12,376.425	Highway Copper HC2
48	003	208	41	15	435.815	12,261.414	12,215.796	Back sight to 002
49	3/1	212	29	45	43.398	12,224.811	12,192.481	Edge of Track
50	3/1	205	13	15	44.880	12,220.812	12,196.673	Edge of Track
51	3/3	209	28	45	115.919	12,160.502	12,158.752	Edge of Track
52	3/4	206	55	45	117.184	12,156.936	12,162.725	Edge of Track
53	3/5	208	57	15	174.584	12,108.651	12,131.278	Centre of Creek
54	3/6	206	57	45	177.345	12,103.346	12,135.387	Centre of Creek
55	004	208	046	015	249.464	12,042.745	12,095.727	Back sight to 003
56	4/1	374	04	15	16.047	12,058.311	12,099.629	Edge of Track
57	4/2	035	09	45	17.026	12,056.664	12,105.532	Edge of Track
58	4/3	213	36	15	80.158	11,975.983	12,051.364	Edge of Track
59	4/4	208	51	45	81.406	11,971.452	12,056.432	Edge of Track
60	005	210	14	15	319.470	11,766.741	11,934.847	Back sight to 004
61	5/1	213	39	30	59.057	11,717.584	11,902.115	Edge of Track
62	5/2	206	03	15	59.248	11,713.514	11,908.824	Edge of Track
63	5/3	211	03	30	125.019	11,659.644	11,870.348	Centre of Creek
64	5/4	208	34	30	125.023	11,656.947	11,875.047	Centre of Creek
65	5/5	210	39	15	188.320	11,604.737	11,838.831	Edge of Track
66	5/6	208	59	15	188.374	11,601.965	11,843.557	Edge of Track

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
67	Station	True bearing			True dist	Northing	Easting	Description
68	006	210	11	00	319.470	11,490.584	11,774.227	Back sight to 005
69	6/1	028	10	15	75.212	11,556.887	11,809.735	Edge of Track
70	6/2	032	49	00	74.818	11,553.462	11,814.775	Edge of Track
71	6/3	222	51	30	41.604	11,460.087	11,745.929	Edge of Track
72	6/4	215	22	15	41.428	11,456.803	11,750.246	Edge of Track
73	6/5	216	41	15	199.052	11,330.964	11,655.304	Centre of Creek
74	6/6	215	27	30	200.576	11,327.208	11,657.871	Centre of Creek
75	6/7	216	27	00	280.594	11,264.881	11,607.520	Edge of Track
76	6/8	215	20	00	280.741	11,261.555	11,611.866	Edge of Track
77	007	215	23	00	393.354	11,169.884	11,546.458	Back sight to 006
78	008	223	03	00	69.003	11,119.460	11,499.354	Back sight to 007
79	8/1	223	51	00	262.754	10,929.973	11,317.326	Edge of Track
80	8/2	225	18	00	262.714	10,934.668	11,312.617	Edge of Track
81	8/3	224	16	00	218.897	10,962.708	11,346.564	Edge of Track
82	8/4	225	24	15	218.910	10,965.763	11,343.474	Edge of Track
83	8/5	224	40	30	168.885	10,999.365	11,380.614	Edge of Track
84	8/6	225	50	00	168.646	11,001.956	11,378.382	Edge of Track
85	8/7	224	13	00	123.216	11,031.150	11,413.427	Edge of Track
86	8/8	226	28	30	114.642	11,040.509	11,416.230	Edge of Track
87	8/9	222	13	30	86.048	11,055.740	11,441.526	Edge of Track
88	8/10	225	13	00	84.250	11,060.112	11,439.555	Creek
89	8/11	218	49	45	51.506	11,079.336	11,467.060	Creek
90	8/12	225	21	00	50.877	11,083.705	11,463.160	Edge of Track
91	8/13	206	27	00	21.392	11,100.307	11,489.826	Edge of Track
92	8/14	220	43	00	19.619	11,104.590	11,486.557	Edge of Track
93	8/15	058	28	00	27.071	11,133.618	11,522.428	Edge of Track
94	8/16	045	17	30	26.706	11,138.248	11,518.334	Edge of Track
95	009	181	46	30	318.786	10,800.827	11,489.480	Back sight to 008

ROAD TRAVERSE 1

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
2	001	008	30	00					008	30	00		Starting Bearing
3	1/1	308	59	30	258.807	270	24	00	317	29	30	258.807	Centerline of Stuart H/way
4	1/2	309	45	00	258.965	270	22	30	318	15	00	258.965	North Side of Highway
5	1/3	308	15	00	258.525	270	23	00	316	45	00	258.525	South Side of Highway
6	1/4	032	45	00	15.303	269	32	00	041	15	00	15.301	North Side of Highway
7	1/5	035	50	00	8.444	269	14	00	042	20	00	8.443	South Side of Highway
8	1/6	123	12	00	208.321	270	05	30	131	42	00	208.321	Centerline of Stuart H/way
9	1/7	122	11	00	208.368	270	04	30	130	41	00	208.368	North Side of Highway
10	1/8	124	03	00	207.995	270	04	30	132	33	00	207.995	South Side of Highway
11	1/9	161	17	00	172.899	270	01	00	169	47	00	172.899	Edge of Track
12	1/10	162	44	00	171.215	270	01	00	171	14	00	171.215	Edge of Track
13	1/11	159	28	00	149.657	270	05	00	167	58	00	149.657	Edge of Track
14	1/12	160	58	00	148.626	270	05	00	169	28	00	148.626	Edge of Track
15	1/13	157	50	30	130.135	270	07	00	166	20	30	130.135	Edge of Track
16	1/14	159	29	00	128.551	270	07	00	167	59	00	128.551	Edge of Track
17	1/15	154	51	00	107.550	270	04	00	163	21	00	107.550	Edge of Track
18	1/16	156	58	00	106.237	270	06	00	165	28	00	106.237	Edge of Track
19	1/17	151	03	00	85.193	269	57	30	159	33	00	85.181	Edge of Track
20	1/18	154	04	00	83.673	270	00	00	162	34	00	83.673	Edge of Track
21	1/19	144	27	00	61.752	269	50	00	152	57	00	61.744	Edge of Track
22	1/20	147	54	30	59.911	269	51	00	156	24	30	59.903	Edge of Track
23	1/21	105	55	30	24.347	269	37	30	114	25	30	24.344	Track - H/way (C/L track)
24	002	160	13	30	174.815	270	04	00	168	43	30	174.815	Back sight to 001
25	2/1	234	29	00	14.922	267	51	00	223	12	30	14.902	Edge of Track
26	2/2	218	32	00	13.277	267	41	00	207	15	30	13.259	Edge of Track
27	2/3	223	11	00	34.799	268	05	30	211	54	30	34.779	Edge of Track
28	2/4	213	11	00	36.295	268	04	30	201	54	30	36.274	Edge of Track
29	2/5	221	47	30	79.139	268	25	00	210	31	00	79.093	Edge of Track
30	2/6	217	41	30	79.896	268	23	00	206	25	00	79.850	Edge of Track
31	2/7	221	23	30	134.821	268	24	30	210	07	00	134.744	Edge of Track
32	2/8	219	17	30	135.025	268	28	00	208	01	00	134.947	Edge of Track
33	2/9	221	09	30	179.990	268	24	00	209	53	00	179.886	Edge of Track

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
35	2/10	219	33	00	180.201	268	27	00	208	18	30	180.097	Edge of Track
36	2/11	221	04	30	275.995	268	24	30	209	48	00	275.837	Bank of Creek
37	2/12	221	14	00	279.319	268	24	30	209	57	30	279.159	Bank of Creek
38	2/13	220	01	00	280.756	268	24	30	208	44	30	280.595	Bank of Creek
39	2/14	220	01	30	283.424	268	24	30	208	45	00	283.261	Bank of Creek
40	2/15	220	53	30	366.364	268	54	30	209	37	00	366.154	Bank of Creek
41	2/16	220	05	00	366.394	268	54	00	208	48	30	366.182	Bank of Creek
42	2/17	068	56	30	34.820	270	02	00	057	40	00	34.820	Edge of Old Track
43	2/18	078	43	00	36.989	269	53	30	067	26	30	36.984	Edge of Old Track
44	2/19	144	36	00	13.503	268	35	00	133	19	30	13.495	Edge of Old Track
45	2/20	144	26	00	7.252	267	18	00	133	09	30	7.242	Edge of Old Track
46	HC1	254	51	30	111.770	269	22	00	243	35	00	111.755	Highway Copper HC1
47	HC2	197	56	00	124.181	269	49	30	186	39	30	124.164	Highway Copper HC2
48	003	219	57	45	435.874	269	51	30	208	41	15	435.815	Back sight to 002
49	3/1	183	48	30	43.404	269	23	00	212	29	45	43.398	Edge of Track
50	3/2	176	32	00	44.886	269	23	00	205	13	15	44.880	Edge of Track
51	3/3	180	47	30	115.935	269	30	00	209	28	45	115.919	Edge of Track
52	3/4	178	14	30	117.200	269	27	00	206	55	45	117.184	Edge of Track
53	3/5	180	16	00	174.608	269	11	00	208	57	15	174.584	Centre of Creek
54	3/6	178	16	30	177.369	269	13	00	206	57	45	177.345	Centre of Creek
55	004	180	005	000	249	269	051	030	208	046	015	249	Back sight to 003
56	4/1	345	18	00	16.068	267	23	30	374	04	15	16.047	Edge of Track
57	4/2	006	23	30	17.048	267	11	30	035	09	45	17.026	Edge of Track
58	4/3	184	50	00	80.158	270	41	30	213	36	15	80.158	Edge of Track
59	4/4	180	05	30	81.406	270	34	30	208	51	45	81.406	Edge of Track
60	005	181	28	00	319.470	270	33	00	210	14	15	319.470	Back sight to 004
61	5/1	183	25	15	59.091	268	35	00	213	39	30	59.057	Edge of Track
62	5/2	175	49	00	59.282	268	21	00	206	03	15	59.248	Edge of Track
63	5/3	180	49	15	125.091	268	40	30	211	03	30	125.019	Centre of Creek
64	5/4	178	20	15	125.095	268	35	00	208	34	30	125.023	Centre of Creek
65	5/5	180	25	00	188.346	269	59	00	210	39	15	188.320	Edge of Track
66	006	178	45	00	188.374	270	02	00	208	59	15	188.374	Edge of Track

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
68	6/6	179	56	45	319.470	270	29	30	210	11	00	319.470	Back sight to 005
69	6/1	357	59	15	75.222	269	28	00	028	10	15	75.212	Edge of Track
70	6/2	002	38	00	74.828	269	24	00	032	49	00	74.818	Edge of Track
71	6/3	192	40	30	41.610	269	02	30	222	51	30	41.604	Edge of Track
72	6/4	185	11	15	41.452	268	42	00	215	22	15	41.428	Edge of Track
73	6/5	186	30	15	199.167	268	42	00	216	41	15	199.052	Centre of Creek
74	6/6	185	16	30	200.691	268	39	30	215	27	30	200.576	Centre of Creek
75	6/7	186	16	00	280.633	269	25	00	216	27	00	280.594	Edge of Track
76	6/8	185	09	00	280.780	269	24	00	215	20	00	280.741	Edge of Track
77	007	185	12	00	393.407	269	36	30	215	23	00	393.354	Back sight to 006
78	008	187	40	00	69.043	268	56	00	223	03	00	69.003	Back sight to 007
79	8/1	216	11	00	262.754	270	16	30	223	51	00	262.754	Edge of Track
80	8/2	217	28	00	262.714	270	17	00	225	18	00	262.714	Edge of Track
81	8/3	216	26	00	218.897	270	07	30	224	16	00	218.897	Edge of Track
82	8/4	217	44	15	218.910	270	08	30	225	24	15	218.910	Edge of Track
83	8/5	216	40	30	168.908	269	26	00	224	40	30	168.885	Edge of Track
84	8/6	218	10	00	168.669	269	27	00	225	50	00	168.646	Edge of Track
85	8/7	216	33	00	123.233	269	11	00	224	13	00	123.216	Edge of Track
86	8/8	218	48	30	114.708	268	01	30	226	28	30	114.642	Edge of Track
87	8/9	214	33	30	86.253	266	41	00	222	13	30	86.048	Edge of Track
88	8/10	217	33	00	84.450	266	48	30	225	13	00	84.250	Creek
89	8/11	211	09	45	51.628	266	11	30	218	49	45	51.506	Creek
90	8/12	217	41	00	50.998	266	05	00	225	21	00	50.877	Edge of Track
91	8/13	198	47	00	21.472	265	45	30	206	27	00	21.392	Edge of Track
92	8/14	213	03	00	19.692	265	45	30	220	43	00	19.619	Edge of Track
93	8/15	050	48	00	27.071	270	41	00	058	28	00	27.071	Edge of Track
94	8/16	037	37	30	26.706	270	42	00	045	17	30	26.706	Edge of Track
95	009	174	06	30	318.786	270	21	00	181	46	30	318.786	Back sight to 008

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC1	243º 35' 00"	111.763	12,594.010	12,324.909	HC1
HC3	009º 58' 30"	8.823	12,602.700	12,326.437	HC1-HC3
HC5	155º 52' 00"	9.947	12,593.622	12,330.504	HC3-HC5
HC5/1	174º 37' 00"	9.193	12,584.470	12,331.367	EDGE OF MULLOCK
HC5/2	011º 08' 45"	7.484	12,600.965	12,331.951	EDGE OF MULLOCK
HC5/3	035º 66' 15"	0.000	12,593.622	12,330.504	EDGE OF MULLOCK
HC5/4	099º 25' 30"	3.386	12,593.068	12,333.845	EDGE OF MULLOCK
HC5/5	148º 41' 00"	3.421	12,590.700	12,332.282	EDGE OF MULLOCK
HC5/6	236º 15' 30"	6.616	12,589.947	12,325.003	EDGE OF MULLOCK
HC5/7	257º 08' 30"	8.946	12,591.631	12,321.783	EDGE OF MULLOCK
HC5/8	287º 00' 00"	11.105	12,596.869	12,319.885	EDGE OF MULLOCK
HC5/9	308º 51' 30"	11.122	12,600.600	12,321.844	EDGE OF MULLOCK
HC5/10	326º 15' 00"	10.341	12,602.220	12,324.759	END OF STOPE
HC5/11	334º 41' 00"	8.970	12,601.731	12,326.669	END OF STOPE
HC5/12	022º 32' 00"	8.941	12,601.881	12,333.931	ORE PILE
HC5/13	099º 57' 00"	5.779	12,592.624	12,336.196	ORE PILE
HC5/14	071º 34' 30"	5.183	12,595.260	12,335.422	SHAFT MULLOCK
HC5/15	169º 01' 00"	5.256	12,588.462	12,331.506	SHAFT MULLOCK
HC5/16	139º 35' 00"	7.392	12,587.994	12,335.297	SHAFT MULLOCK
HC5/17	142º 06' 00"	13.936	12,582.625	12,339.065	SHAFT MULLOCK
HC5/18	158º 02' 30"	16.025	12,578.760	12,336.497	SHAFT MULLOCK
HC5/19	180º 03' 00"	14.219	12,579.403	12,330.492	SHAFT MULLOCK
HC5/20	195º 53' 45"	11.236	12,582.816	12,327.427	SHAFT MULLOCK
HC5/21	200º 31' 00"	6.443	12,587.588	12,328.246	EDGE OF SHAFT
HC5/22	161º 23' 00"	6.702	12,587.271	12,332.644	EDGE OF SHAFT
HC5/23	147º 16' 00"	11.076	12,584.305	12,336.493	EDGE OF SHAFT
HC5/24	163º 06' 45"	13.055	12,581.130	12,334.297	EDGE OF SHAFT
HC5/25	183º 22' 30"	10.345	12,583.295	12,329.895	EDGE OF SHAFT
HC5/26	165º 55' 00"	10.054	12,583.870	12,332.951	CENTRE OF SHAFT
HC5/27	121º 45' 00"	8.383	12,589.211	12,337.633	WASTE DUMP
HC5/28	127º 15' 00"	11.440	12,586.698	12,339.611	WASTE DUMP
HC5/29	134º 39' 00"	14.466	12,583.456	12,340.796	WASTE DUMP
HC5/30	081º 18' 30"	12.437	12,595.502	12,342.798	WASTE DUMP 2
HC5/31	090º 26' 30"	15.271	12,593.504	12,345.775	WASTE DUMP 2
HC5/32	097º 55' 30"	13.723	12,591.730	12,344.096	WASTE DUMP 2
HC5/33	091º 34' 00"	10.932	12,593.323	12,341.432	WASTE DUMP 2
HC5/34	154º 44' 00"	34.699	12,562.243	12,345.315	PIT
HC5/35	154º 55' 00"	36.275	12,560.768	12,345.883	PIT
HC5/36	157º 02' 30"	36.319	12,560.180	12,344.671	PIT
HC5/37	157º 10' 00"	34.526	12,561.802	12,343.902	PIT
HC5/38	152º 09' 15"	34.066	12,563.501	12,346.416	EAST DUMP
HC5/39	149º 57' 30"	36.471	12,562.051	12,348.763	EAST DUMP
HC5/40	152º 55' 15"	38.320	12,559.503	12,347.948	EAST DUMP
HC5/41	153º 56' 45"	35.742	12,561.512	12,346.203	EAST DUMP
HC5/42	159º 30' 30"	33.345	12,562.387	12,342.177	WEST DUMP
HC5/43	161º 02' 30"	37.686	12,557.980	12,342.748	WEST DUMP
HC5/44	163º 32' 00"	35.251	12,559.817	12,340.496	WEST DUMP
HC5/45	163º 42' 45"	25.378	12,569.263	12,337.622	PIT
HC5/46	163º 57' 00"	27.244	12,567.440	12,338.037	PIT
HC5/47	165º 08' 30"	27.469	12,567.072	12,337.548	PIT
HC5/48	171º 54' 00"	25.646	12,568.232	12,334.118	PIT
HC5/49	141º 57' 00"	49.695	12,554.489	12,361.134	WASTE
HC5/50	139º 16' 30"	51.132	12,554.872	12,363.864	WASTE

EXPLORATION OFFICE 2021

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC5/51	141º 34' 30"	53.280	12,551.881	12,363.617	WASTE
HC5/52	143º 43' 00"	51.148	12,552.392	12,360.773	WASTE
HC5/53	137º 16' 00"	58.784	12,550.444	12,370.394	ROAD
HC5/54	137º 11' 00"	65.937	12,545.255	12,375.319	ROAD
HC5/55	141º 51' 00"	67.810	12,540.297	12,372.392	ROAD
HC5/56	142º 56' 00"	61.196	12,544.792	12,367.390	ROAD
HC6	155º 52' 00"	84.873	12,516.167	12,365.206	HC5-HC6
HC7	245º 52' 00"	129.282	12,540.764	12,212.522	HC5-HC7
HC8	335º 52' 00"	146.079	12,726.933	12,270.778	HC5-HC8
HC9	065º 52' 00"	89.772	12,630.326	12,412.430	HC5-HC9
HC6/1	019º 48' 45"	75.058	12,586.782	12,390.646	North side of Track from HC6
HC6/2	018º 40' 00"	67.072	12,579.711	12,386.673	North side of Track from HC6
HC6/3	016º 51' 15"	59.024	12,572.656	12,382.319	North side of Track from HC6
HC6/4	013º 46' 30"	48.147	12,562.930	12,376.670	North side of Track from HC6
HC6/5	010º 26' 30"	39.959	12,555.465	12,372.448	North side of Track from HC6
HC6/6	005º 16' 15"	31.867	12,547.900	12,368.133	North side of Track from HC6
HC6/7	353º 41' 45"	22.063	12,538.097	12,362.783	North side of Track from HC6
HC6/8	335º 39' 15"	15.774	12,530.539	12,358.703	North side of Track from HC6
HC6/9	304º 56' 30"	12.540	12,523.350	12,354.926	North side of Track from HC6
HC6/10	269º 20' 15"	14.509	12,516.000	12,350.698	North side of Track from HC6
HC6/11	249º 11' 00"	20.101	12,509.024	12,346.417	North side of Track from HC6
HC6/12	237º 45' 15"	26.822	12,501.856	12,342.520	North side of Track from HC6
HC6/13	231º 06' 00"	34.421	12,494.552	12,338.418	North side of Track from HC6
HC6/14	226º 39' 30"	42.125	12,487.255	12,334.569	North side of Track from HC6
HC6/15	215º 49' 30"	41.247	12,482.724	12,341.063	South side of Track / HC6
HC6/16	220º 04' 30"	25.834	12,496.399	12,348.574	South side of Track / HC6
HC6/17	224º 41' 30"	17.902	12,503.441	12,352.615	South side of Track / HC6
HC6/18	239º 37' 00"	9.884	12,511.168	12,356.679	South side of Track / HC6
HC6/19	303º 09' 30"	4.830	12,518.809	12,361.162	South side of Track / HC6
HC6/20	005º 59' 30"	12.369	12,528.469	12,366.497	South side of Track / HC6
HC6/21	016º 19' 30"	19.716	12,535.088	12,370.747	South side of Track / HC6
HC6/22	019º 32' 15"	27.914	12,542.474	12,374.541	South side of Track / HC6
HC6/23	022º 54' 30"	40.335	12,553.321	12,380.906	South side of Track / HC6
HC6/24	023º 11' 00"	49.189	12,561.384	12,384.570	South side of Track / HC6
HC6/25	025º 09' 45"	63.884	12,573.989	12,392.368	South side of Track / HC6
HC6/26	025º 57' 00"	74.144	12,582.836	12,397.650	South side of Track / HC6
HC6/27	037º 44' 30"	49.498	12,555.309	12,395.503	Road Cutting Spoil Heap
HC6/28	032º 21' 30"	41.542	12,551.259	12,387.439	Road Cutting Spoil Heap
HC6/29	057º 09' 30"	32.732	12,533.919	12,392.706	Road Cutting Spoil Heap
HC6/30	092º 39' 45"	36.525	12,514.471	12,401.691	Road Cutting Spoil Heap
HC6/31	103º 54' 00"	46.991	12,504.879	12,410.821	Road Cutting Spoil Heap
HC6/32	111º 04' 45"	68.757	12,491.438	12,429.362	Road Cutting Spoil Heap
HC6/33	105º 56' 30"	74.678	12,495.656	12,437.012	Road Cutting Spoil Heap
HC10	155º 52' 00"	190.017	12,342.759	12,442.896	HC6-HC10
HC11	223º 06' 00"	105.903	12,265.432	12,370.535	HC10-HC11
HC11/1	310º 37' 15"	92.376	12,325.574	12,300.418	EAST BANK OF CREEK
HC11/2	315º 10' 15"	91.414	12,330.264	12,306.088	EAST BANK OF CREEK
HC11/3	313º 16' 45"	82.435	12,321.946	12,310.521	EAST BANK OF CREEK
HC11/4	314º 52' 45"	73.425	12,317.242	12,318.507	EAST BANK OF CREEK
HC11/5	318º 28' 00"	78.445	12,324.154	12,318.522	EAST BANK OF CREEK
HC11/6	315º 19' 00"	76.128	12,319.560	12,317.003	EAST BANK OF CREEK
HC11/7	310º 42' 00"	61.175	12,305.324	12,324.156	EAST BANK OF CREEK
HC11/8	305º 11' 00"	53.996	12,296.545	12,326.403	EAST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC11/9	296º 10' 45"	50.906	12,287.891	12,324.851	EAST BANK OF CREEK
HC11/10	274º 19' 00"	40.319	12,268.467	12,330.331	EAST BANK OF CREEK
HC11/11	255º 00' 00"	40.708	12,254.896	12,331.214	EAST BANK OF CREEK
HC11/12	237º 50' 30"	44.188	12,241.913	12,333.127	EAST BANK OF CREEK
HC11/13	229º 20' 00"	53.943	12,230.280	12,329.619	EAST BANK OF CREEK
HC11/14	228º 19' 30"	66.043	12,221.520	12,321.206	EAST BANK OF CREEK
HC11/15	223º 21' 30"	72.623	12,212.630	12,320.675	EAST BANK OF CREEK
HC11/16	217º 15' 00"	85.425	12,197.434	12,318.828	EAST BANK OF CREEK
HC11/17	212º 41' 30"	99.840	12,181.406	12,316.610	EAST BANK OF CREEK
HC11/18	208º 32' 30"	122.053	12,158.213	12,312.219	EAST BANK OF CREEK
HC11/19	207º 23' 30"	128.472	12,151.364	12,311.429	EAST BANK OF CREEK
HC11/20	208º 31' 30"	130.553	12,150.727	12,308.191	WEST BANK OF CREEK
HC11/21	212º 16' 15"	107.350	12,174.664	12,313.219	WEST BANK OF CREEK
HC11/22	215º 45' 00"	98.568	12,185.437	12,312.947	WEST BANK OF CREEK
HC11/23	222º 24' 15"	78.957	12,207.130	12,317.290	WEST BANK OF CREEK
HC11/24	229º 48' 30"	68.019	12,221.536	12,318.576	WEST BANK OF CREEK
HC11/25	231º 11' 00"	59.170	12,228.343	12,324.433	WEST BANK OF CREEK
HC11/26	239º 43' 00"	50.802	12,239.814	12,326.666	WEST BANK OF CREEK
HC11/27	255º 59' 30"	44.746	12,254.601	12,327.120	WEST BANK OF CREEK
HC11/28	274º 01' 00"	44.141	12,268.524	12,326.503	WEST BANK OF CREEK
HC11/29	190º 01' 00"	51.051	12,215.159	12,361.656	WEST BANK OF CREEK
HC11/30	310º 49' 00"	64.874	12,307.837	12,321.438	WEST BANK OF CREEK
HC11/31	311º 21' 15"	82.227	12,319.760	12,308.813	WEST BANK OF CREEK
HC11/32	312º 57' 30"	90.132	12,326.854	12,304.572	WEST BANK OF CREEK
HC11/33	309º 50' 30"	90.781	12,323.593	12,300.832	WEST BANK OF CREEK
HC11/34	342º 21' 30"	68.629	12,330.833	12,349.736	East Edge of Alluvium
HC11/35	331º 40' 15"	40.520	12,301.100	12,351.307	East Edge of Alluvium
HC11/36	303º 16' 45"	30.020	12,281.905	12,345.439	East Edge of Alluvium
HC11/37	262º 43' 00"	27.960	12,261.888	12,342.801	East Edge of Alluvium
HC11/38	236º 07' 15"	31.866	12,247.669	12,344.080	East Edge of Alluvium
HC11/39	223º 09' 30"	42.870	12,234.160	12,341.211	East Edge of Alluvium
HC11/40	223º 12' 00"	58.494	12,222.792	12,330.493	East Edge of Alluvium
HC11/41	214º 51' 00"	70.206	12,207.817	12,330.417	East Edge of Alluvium
HC11/42	211º 00' 30"	73.849	12,202.137	12,332.491	East Edge of Alluvium
HC11/43	361º 47' 30"	4.478	12,269.908	12,370.675	FAULT ZONE CONTROL
HC11/44	178º 18' 00"	4.793	12,260.641	12,370.677	FAULT ZONE CONTROL
HC11/45	178º 35' 45"	11.690	12,253.746	12,370.822	FAULT ZONE CONTROL
HC11/46	178º 57' 00"	18.472	12,246.963	12,370.874	FAULT ZONE CONTROL
HC11/47	179º 34' 30"	24.795	12,240.638	12,370.719	FAULT ZONE CONTROL
HC11/48	182º 41' 00"	48.190	12,217.295	12,368.279	FAULT ZONE CONTROL
HC11/49	181º 21' 00"	65.125	12,200.325	12,369.001	FAULT ZONE CONTROL
HC12	179º 12' 30"	81.166	12,184.274	12,371.657	HC11-HC12
HC12/1	283º 31' 30"	34.184	12,192.269	12,338.421	EDGE OF ALLUVIUM
HC12/2	311º 53' 00"	18.580	12,196.679	12,357.823	EDGE OF ALLUVIUM
HC12/3	345º 41' 00"	12.915	12,196.788	12,368.463	EDGE OF ALLUVIUM
HC12/4	305º 56' 15"	14.055	12,192.523	12,360.277	EDGE OF ALLUVIUM
HC12/5	289º 38' 30"	11.671	12,188.197	12,360.665	EDGE OF ALLUVIUM
HC12/6	262º 21' 30"	30.621	12,180.202	12,341.307	EDGE OF ALLUVIUM
HC12/7	238º 26' 30"	29.582	12,168.792	12,346.450	EDGE OF ALLUVIUM
HC12/8	203º 05' 30"	33.023	12,153.897	12,358.705	EDGE OF ALLUVIUM
HC12/9	182º 40' 00"	41.206	12,143.113	12,369.740	EDGE OF ALLUVIUM
HC12/10	176º 28' 30"	56.902	12,127.480	12,375.155	EDGE OF ALLUVIUM
HC12/11	171º 21' 00"	62.920	12,122.069	12,381.120	EDGE OF ALLUVIUM

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC12/12	162º 26' 00"	84.913	12,103.321	12,397.285	EDGE OF ALLUVIUM
HC12/13	156º 41' 30"	102.220	12,090.396	12,412.103	EDGE OF ALLUVIUM
HC12/14	160º 27' 30"	96.792	12,093.057	12,404.033	EDGE OF ALLUVIUM
HC12/15	162º 24' 00"	87.128	12,101.224	12,398.002	EDGE OF ALLUVIUM
HC12/16	171º 25' 30"	76.012	12,109.112	12,382.990	EDGE OF ALLUVIUM
HC12/17	179º 43' 00"	65.169	12,119.106	12,371.979	EDGE OF ALLUVIUM
HC12/18	185º 52' 00"	52.034	12,132.513	12,366.338	EDGE OF ALLUVIUM
HC12/19	187º 24' 30"	43.609	12,141.029	12,366.034	EDGE OF ALLUVIUM
HC12/20	207º 65' 00"	42.768	12,146.541	12,351.523	EDGE OF ALLUVIUM
HC12/21	239º 59' 30"	69.639	12,149.446	12,311.353	EAST BANK OF CREEK
HC12/22	224º 35' 00"	108.552	12,106.960	12,295.459	EAST BANK OF CREEK
HC12/23	223º 25' 00"	123.519	12,094.553	12,286.762	EAST BANK OF CREEK
HC12/24	223º 12' 00"	140.153	12,082.107	12,275.716	EAST BANK OF CREEK
HC12/25	225º 03' 30"	137.549	12,087.111	12,274.296	WEST BANK OF CREEK
HC12/26	235º 57' 45"	80.379	12,139.283	12,305.049	WEST BANK OF CREEK
HC12/27	178º 20' 30"	27.735	12,156.551	12,372.459	1
HC12/28	161º 32' 30"	42.650	12,143.818	12,385.160	2
HC12/29	173º 54' 30"	38.114	12,146.375	12,375.701	SMALL CREEK
HC12/30	140º 54' 00"	58.661	12,138.750	12,408.653	SMALL CREEK
HC7/1	327º 15' 00"	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
HC7/2	327º 22' 00"	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
HC7/3	331º 42' 30"	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
HC7/4	342º 43' 00"	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
HC7/5	341º 30' 30"	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
HC7/6	347º 32' 00"	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
HC7/7	354º 40' 30"	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
HC7/8	358º 59' 30"	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
HC7/9	374º 34' 00"	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
HC7/10	039º 11' 30"	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
HC7/11	061º 15' 00"	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
HC7/12	083º 56' 00"	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
HC7/13	097º 42' 00"	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
HC7/14	115º 18' 00"	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
HC7/15	132º 14' 30"	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
HC7/16	138º 53' 00"	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
HC7/17	148º 37' 00"	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
HC7/18	154º 48' 00"	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
HC7/19	159º 45' 45"	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
HC7/20	163º 42' 30"	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
HC7/21	167º 59' 30"	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
HC7/22	168º 27' 30"	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
HC7/23	167º 50' 30"	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
HC7/24	164º 37' 00"	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
HC7/25	162º 40' 00"	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
HC7/26	162º 41' 15"	111.121	12,434.677	12,245.590	EAST BANK OF CREEK
HC7/27	161º 12' 30"	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
HC7/28	156º 09' 00"	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
HC7/29	150º 05' 00"	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
HC7/30	147º 31' 30"	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
HC7/31	145º 37' 30"	115.058	12,445.799	12,277.485	EAST BANK OF CREEK
HC7/32	146º 21' 00"	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
HC7/32	148º 28' 30"	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
HC7/33	149º 35' 45"	107.645	12,447.922	12,267.001	WEST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/34	151º 43' 30"	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
HC7/35	158º 35' 00"	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
HC7/36	159º 50' 30"	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
HC7/37	157º 37' 30"	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
HC7/38	159º 39' 00"	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
HC7/39	163º 53' 00"	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
HC7/40	167º 23' 30"	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
HC7/41	170º 40' 00"	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
HC7/42	168º 56' 00"	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
HC7/43	162º 57' 30"	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
HC7/44	146º 50' 00"	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
HC7/45	138º 59' 30"	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
HC7/46	122º 36' 00"	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
HC7/47	083º 11' 30"	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
HC7/48	059º 06' 30"	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
HC7/49	039º 04' 30"	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
HC7/50	033º 04' 00"	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
HC7/51	015º 58' 00"	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
HC7/52	353º 56' 00"	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
HC7/53	349º 30' 00"	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
HC7/54	346º 01' 00"	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
HC7/55	341º 19' 30"	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
HC7/56	339º 26' 45"	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
HC7/57	326º 02' 00"	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
HC7/58	323º 43' 30"	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
HC7/59	322º 33' 15"	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
HC7/60	196º 22' 00"	145.831	12,400.842	12,171.429	Western Edge of Alluvium
HC7/61	199º 03' 45"	122.928	12,424.577	12,172.374	Western Edge of Alluvium
HC7/62	207º 01' 00"	104.091	12,448.032	12,165.239	Western Edge of Alluvium
HC7/63	214º 44' 30"	93.852	12,463.643	12,159.038	Western Edge of Alluvium
HC7/64	249º 13' 30"	63.153	12,518.363	12,153.475	Western Edge of Alluvium
HC7/65	273º 09' 00"	61.217	12,544.128	12,151.397	Western Edge of Alluvium
HC7/66	293º 06' 30"	84.850	12,574.065	12,134.480	Western Edge of Alluvium
HC7/67	297º 55' 00"	101.140	12,588.116	12,123.152	Western Edge of Alluvium
HC7/68	297º 22' 00"	111.514	12,592.025	12,113.488	Western Edge of Alluvium
HC7/69	299º 43' 30"	127.073	12,603.771	12,102.170	Western Edge of Alluvium
HC7/70	304º 52' 00"	143.860	12,623.004	12,094.487	Western Edge of Alluvium
HC7/71	349º 31' 00"	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
HC7/72	003º 53' 30"	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
HC7/73	029º 35' 30"	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
HC7/74	055º 45' 00"	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium
HC7/75	081º 14' 30"	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
HC7/76	101º 59' 45"	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
HC7/77	122º 42' 30"	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
HC7/78	113º 34' 00"	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
HC2/1	132º 41' 00"	30.538	12,499.687	12,433.052	Cut Spoil Heap
HC2/2	111º 00' 15"	12.796	12,515.804	12,422.548	Cut Spoil Heap
HC2/3	073º 07' 30"	15.842	12,524.989	12,425.763	Cut Spoil Heap
HC2/4	019º 49' 45"	21.778	12,540.877	12,417.990	Cut Spoil Heap
HC2/5	355º 30' 00"	26.114	12,546.423	12,408.554	Cut Spoil Heap
HC2/6	027º 57' 30"	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
HC2/7	053º 10' 30"	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
HC2/8	047º 34' 30"	32.474	12,542.298	12,434.574	Cut Spoil Heap 2

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC2/9	060º 50' 45"	23.089	12,531.638	12,430.767	Cut Spoil Heap 2
HC11/1	310º 37' 15"	92.376	12,325.574	12,300.418	EAST BANK OF CREEK
HC11/2	315º 10' 15"	91.414	12,330.264	12,306.088	EAST BANK OF CREEK
HC11/3	313º 16' 45"	82.435	12,321.946	12,310.521	EAST BANK OF CREEK
HC11/4	314º 52' 45"	73.425	12,317.242	12,318.507	EAST BANK OF CREEK
HC11/5	318º 28' 00"	78.445	12,324.154	12,318.522	EAST BANK OF CREEK
HC11/6	315º 19' 00"	76.128	12,319.560	12,317.003	EAST BANK OF CREEK
HC11/7	310º 42' 00"	61.175	12,305.324	12,324.156	EAST BANK OF CREEK
HC11/8	305º 11' 00"	53.996	12,296.545	12,326.403	EAST BANK OF CREEK
HC11/9	296º 10' 45"	50.906	12,287.891	12,324.851	EAST BANK OF CREEK
HC11/10	274º 19' 00"	40.319	12,268.467	12,330.331	EAST BANK OF CREEK
HC11/11	255º 00' 00"	40.708	12,254.896	12,331.214	EAST BANK OF CREEK
HC11/12	237º 50' 30"	44.188	12,241.913	12,333.127	EAST BANK OF CREEK
HC11/13	229º 20' 00"	53.943	12,230.280	12,329.619	EAST BANK OF CREEK
HC11/14	228º 19' 30"	66.043	12,221.520	12,321.206	EAST BANK OF CREEK
HC11/15	223º 21' 30"	72.623	12,212.630	12,320.675	EAST BANK OF CREEK
HC11/16	217º 15' 00"	85.425	12,197.434	12,318.828	EAST BANK OF CREEK
HC11/17	212º 41' 30"	99.840	12,181.408	12,316.610	EAST BANK OF CREEK
HC11/18	208º 32' 30"	122.053	12,158.213	12,312.219	EAST BANK OF CREEK
HC11/19	207º 23' 30"	128.472	12,151.364	12,311.429	EAST BANK OF CREEK
HC11/20	208º 31' 30"	130.553	12,150.727	12,308.191	WEST BANK OF CREEK
HC11/21	212º 16' 15"	107.350.	12,174.664	12,313.219	WEST BANK OF CREEK
HC11/22	215º 45' 00"	98.568	12,185.437	12,312.947	WEST BANK OF CREEK
HC11/23	222º 24' 15"	78.957	12,207.130	12,317.290	WEST BANK OF CREEK
HC11/24	229º 48' 30"	68.019	12,221.536	12,318.576	WEST BANK OF CREEK
HC11/25	231º 11' 00"	59.170	12,228.343	12,324.433	WEST BANK OF CREEK
HC11/26	239º 43' 00"	50.802	12,239.814	12,326.666	WEST BANK OF CREEK
HC11/27	255º 59' 30"	44.746	12,254.601	12,327.120	WEST BANK OF CREEK
HC11/28	274º 01' 00"	44.141	12,268.524	12,326.503	WEST BANK OF CREEK
HC11/29	190º 01' 00"	51.051	12,215.159	12,361.656	WEST BANK OF CREEK
HC11/30	310º 49' 00"	64.874	12,307.837	12,321.438	WEST BANK OF CREEK
HC11/31	311º 21' 15"	82.227	12,319.760	12,308.813	WEST BANK OF CREEK
HC11/32	312º 57' 30"	90.132	12,326.854	12,304.572	WEST BANK OF CREEK
HC11/33	309º 50' 30"	90.781	12,323.593	12,300.832	WEST BANK OF CREEK
HC11/34	342º 21' 30"	68.629	12,330.833	12,349.736	East Edge of Alluvium
HC11/35	331º 40' 15"	40.520	12,301.100	12,351.307	East Edge of Alluvium
HC11/36	303º 16' 45"	30.020	12,281.905	12,345.439	East Edge of Alluvium
HC11/37	262º 43' 00"	27.960	12,261.888	12,342.801	East Edge of Alluvium
HC11/38	236º 07' 15"	31.866	12,247.669	12,344.080	East Edge of Alluvium
HC11/39	223º 09' 30"	42.870	12,234.160	12,341.211	East Edge of Alluvium
HC11/40	223º 12' 00"	58.494	12,222.792	12,330.493	East Edge of Alluvium
HC11/41	214º 51' 00"	70.206	12,207.817	12,330.417	East Edge of Alluvium
HC11/42	211º 00' 30"	73.849	12,202.137	12,332.491	East Edge of Alluvium
HC11/43	361º 47' 30"	4.478	12,269.908	12,370.675	FAULT ZONE CONTROL
HC11/44	178º 18' 00"	4.793	12,260.641	12,370.677	FAULT ZONE CONTROL
HC11/45	178º 35' 45"	11.690	12,253.746	12,370.822	FAULT ZONE CONTROL
HC11/46	178º 57' 00"	18.472	12,246.963	12,370.874	FAULT ZONE CONTROL
HC11/47	179º 34' 30"	24.795	12,240.638	12,370.719	FAULT ZONE CONTROL
HC11/48	182º 41' 00"	48.190	12,217.295	12,368.279	FAULT ZONE CONTROL
HC11/49	181º 21' 00"	65.125	12,200.325	12,369.001	FAULT ZONE CONTROL
HC12/1	283º 31' 30"	34.184	12,192.269	12,338.421	EDGE OF ALLUVIUM
HC12/2	311º 53' 00"	18.580	12,196.679	12,357.823	EDGE OF ALLUVIUM
HC12/3	345º 41' 00"	12.915	12,196.788	12,368.463	EDGE OF ALLUVIUM

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC12/4	305º 56' 15"	14.055	12,192.523	12,360.277	EDGE OF ALLUVIUM
HC12/5	289º 38' 30"	11.671	12,188.197	12,360.665	EDGE OF ALLUVIUM
HC12/6	262º 21' 30"	30.621	12,180.202	12,341.307	EDGE OF ALLUVIUM
HC12/7	238º 26' 30"	29.582	12,168.792	12,346.450	EDGE OF ALLUVIUM
HC12/8	203º 05' 30"	33.023	12,153.897	12,358.705	EDGE OF ALLUVIUM
HC12/9	182º 40' 00"	41.206	12,143.113	12,369.740	EDGE OF ALLUVIUM
HC12/10	176º 28' 30"	56.902	12,127.480	12,375.155	EDGE OF ALLUVIUM
HC12/11	171º 21' 00"	62.920	12,122.069	12,381.120	EDGE OF ALLUVIUM
HC12/12	162º 26' 00"	84.913	12,103.321	12,397.285	EDGE OF ALLUVIUM
HC12/13	156º 41' 30"	102.220	12,090.396	12,412.103	EDGE OF ALLUVIUM
HC12/14	160º 27' 30"	96.792	12,093.057	12,404.033	EDGE OF ALLUVIUM
HC12/15	162º 24' 00"	87.128	12,101.224	12,398.002	EDGE OF ALLUVIUM
HC12/16	171º 25' 30"	76.012	12,109.112	12,382.990	EDGE OF ALLUVIUM
HC12/17	179º 43' 00"	65.169	12,119.106	12,371.979	EDGE OF ALLUVIUM
HC12/18	185º 52' 00"	52.034	12,132.513	12,366.338	EDGE OF ALLUVIUM
HC12/19	187º 24' 30"	43.609	12,141.029	12,366.034	EDGE OF ALLUVIUM
HC12/20	207º 65' 00"	42.768	12,146.541	12,351.523	EDGE OF ALLUVIUM
HC12/21	239º 59' 30"	69.639	12,149.446	12,311.353	EAST BANK OF CREEK
HC12/22	224º 35' 00"	108.552	12,106.960	12,295.459	EAST BANK OF CREEK
HC12/23	223º 25' 00"	123.519	12,094.553	12,286.762	EAST BANK OF CREEK
HC12/24	223º 12' 00"	140.153	12,082.107	12,275.716	EAST BANK OF CREEK
HC12/25	225º 03' 30"	137.549	12,087.111	12,274.296	WEST BANK OF CREEK
HC12/26	235º 57' 45"	80.379	12,139.283	12,305.049	WEST BANK OF CREEK
HC12/27	178º 20' 30"	27.735	12,156.551	12,372.459	1
HC12/28	161º 32' 30"	42.650	12,143.818	12,385.160	2
HC12/29	173º 54' 30"	38.114	12,146.375	12,375.701	SMALL CREEK
HC12/30	140º 54' 00"	58.661	12,138.750	12,408.653	SMALL CREEK
HC7/1	327º 15' 00"	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
HC7/2	327º 22' 00"	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
HC7/3	331º 42' 30"	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
HC7/4	342º 43' 00"	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
HC7/5	341º 30' 30"	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
HC7/6	347º 32' 00"	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
HC7/7	354º 40' 30"	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
HC7/8	356º 59' 30"	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
HC7/9	374º 34' 00"	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
HC7/10	039º 11' 30"	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
HC7/11	061º 15' 00"	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
HC7/12	083º 56' 00"	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
HC7/13	097º 42' 00"	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
HC7/14	115º 18' 00"	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
HC7/15	132º 14' 30"	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
HC7/16	138º 53' 00"	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
HC7/17	148º 37' 00"	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
HC7/18	154º 48' 00"	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
HC7/19	159º 45' 45"	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
HC7/20	163º 42' 30"	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
HC7/21	167º 59' 30"	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
HC7/22	168º 27' 30"	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
HC7/23	167º 50' 30"	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
HC7/24	164º 37' 00"	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
HC7/25	162º 40' 00"	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
HC7/26	162º 41' 15"	111.121	12,434.677	12,245.590	EAST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/27	161º 12' 30"	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
HC7/28	156º 09' 00"	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
HC7/29	150º 05' 00"	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
HC7/30	147º 31' 30"	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
HC7/31	145º 37' 30"	115.058	12,445.799	12,277.485	EAST BANK OF CREEK
HC7/32	146º 21' 00"	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
HC7/33	148º 28' 30"	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
HC7/34	149º 35' 45"	107.645	12,447.922	12,267.001	WEST BANK OF CREEK
HC7/35	151º 43' 30"	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
HC7/36	158º 35' 00"	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
HC7/37	159º 50' 30"	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
HC7/38	157º 37' 30"	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
HC7/39	159º 39' 00"	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
HC7/40	163º 53' 00"	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
HC7/41	167º 23' 30"	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
HC7/42	170º 40' 00"	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
HC7/43	168º 56' 00"	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
HC7/44	162º 57' 30"	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
HC7/45	146º 50' 00"	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
HC7/46	138º 59' 30"	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
HC7/47	122º 36' 00"	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
HC7/48	083º 11' 30"	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
HC7/49	059º 06' 30"	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
HC7/50	039º 04' 30"	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
HC7/51	033º 04' 00"	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
HC7/52	015º 58' 00"	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
HC7/53	353º 56' 00"	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
HC7/54	349º 30' 00"	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
HC7/55	346º 01' 00"	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
HC7/56	341º 19' 30"	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
HC7/57	339º 26' 45"	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
HC7/58	326º 02' 00"	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
HC7/59	323º 43' 30"	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
HC7/60	322º 33' 15"	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
HC7/61	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/62	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/63	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/64	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/65	196º 22' 00"	145.831	12,400.842	12,171.429	Western Edge of Alluvium
HC7/66	199º 03' 45"	122.928	12,424.577	12,172.374	Western Edge of Alluvium
HC7/67	207º 01' 00"	104.091	12,448.032	12,165.239	Western Edge of Alluvium
HC7/68	214º 44' 30"	93.852	12,463.643	12,159.038	Western Edge of Alluvium
HC7/69	249º 13' 30"	63.153	12,518.363	12,153.475	Western Edge of Alluvium
HC7/70	273º 09' 00"	61.217	12,544.128	12,151.397	Western Edge of Alluvium
HC7/71	293º 06' 30"	84.850	12,574.065	12,134.480	Western Edge of Alluvium
HC7/72	297º 55' 00"	101.140	12,588.116	12,123.152	Western Edge of Alluvium
HC7/73	297º 22' 00"	111.514	12,592.025	12,113.488	Western Edge of Alluvium
HC7/74	299º 43' 30"	127.073	12,603.771	12,102.170	Western Edge of Alluvium
HC7/75	304º 52' 00"	143.860	12,623.004	12,094.487	Western Edge of Alluvium
HC7/76	349º 31' 00"	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
HC7/77	003º 53' 30"	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
HC7/78	029º 35' 30"	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
HC7/79	055º 45' 00"	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/80	081º 14' 30"	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
HC7/81	101º 59' 45"	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
HC7/82	122º 42' 30"	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
HC7/83	113º 34' 00"	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
HC2/1	132º 41' 00"	30.538	12,499.687	12,433.052	Cut Spoil Heap
HC2/2	111º 00' 15"	12.796	12,515.804	12,422.548	Cut Spoil Heap
HC2/3	073º 07' 30"	15.842	12,524.989	12,425.763	Cut Spoil Heap
HC2/4	019º 49' 45"	21.778	12,540.877	12,417.990	Cut Spoil Heap
HC2/5	355º 30' 00"	26.114	12,546.423	12,408.554	Cut Spoil Heap
HC2/6	027º 57' 30"	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
HC2/7	053º 10' 30"	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
HC2/8	047º 34' 30"	32.474	12,542.298	12,434.574	Cut Spoil Heap 2
HC2/9	060º 50' 45"	23.089	12,531.638	12,430.767	Cut Spoil Heap 2
HC13	177º 27' 30"	137.620	12,046.790	12,377.760	HC12-HC13
HC14	168º 20' 30"	104.960	11,943.995	12,398.969	HC13-HC14
HC15	116º 03' 00"	96.540	11,901.599	12,485.702	HC14-HC15
HC16	157º 28' 45"	132.252	11,779.432	12,536.357	HC15-HC16
HC17	114º 46' 15"	116.523	11,730.610	12,642.159	HC16-HC17
HC18	151º 44' 15"	100.559	11,642.039	12,689.775	HC17-HC18
HC19	167º 47' 15"	91.652	11,552.462	12,709.163	HC18-HC19
HC20	156º 59' 30"	247.541	11,324.613	12,805.918	HC19-HC20

H/WAY COPPER MAP 1

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	002	000	00	00		12,643.733	12,425.002	Starting Bearing
3	HC1	243	35	00	111.763	12,594.010	12,324.909	Highway Copper HC1
4	HC3	009	58	30	8.823	12,602.700	12,326.437	HC1-HC3
5	HC5	155	52	00	9.947	12,593.622	12,330.504	HC3-HC5
6	HC5/1	174	37	00	9.193	12,584.470	12,331.367	EDGE OF MULLOCK
7	HC5/2	011	08	45	7.484	12,600.965	12,331.951	EDGE OF MULLOCK
8	HC5/3	035	66	15	0.000	12,593.622	12,330.504	EDGE OF MULLOCK
9	HC5/4	099	25	30	3.386	12,593.068	12,333.845	EDGE OF MULLOCK
10	HC5/5	148	41	00	3.421	12,590.700	12,332.282	EDGE OF MULLOCK
11	HC5/6	236	15	30	6.616	12,589.947	12,325.003	EDGE OF MULLOCK
12	HC5/7	257	08	30	8.946	12,591.631	12,321.783	EDGE OF MULLOCK
13	HC5/8	287	00	00	11.105	12,596.869	12,319.885	EDGE OF MULLOCK
14	HC5/9	308	51	30	11.122	12,600.600	12,321.844	EDGE OF MULLOCK
15	HC5/10	326	15	00	10.341	12,602.220	12,324.759	END OF STOPE
16	HC5/11	334	41	00	8.970	12,601.731	12,326.669	END OF STOPE
17	HC5/12	022	32	00	8.941	12,601.881	12,333.931	ORE PILE
18	HC5/13	099	57	00	5.779	12,592.624	12,336.196	ORE PILE
19	HC5/14	071	34	30	5.183	12,595.260	12,335.422	SHAFT MULLOCK
20	HC5/15	169	01	00	5.256	12,588.462	12,331.506	SHAFT MULLOCK
21	HC5/16	139	35	00	7.392	12,587.994	12,335.297	SHAFT MULLOCK
22	HC5/17	142	06	00	13.936	12,582.625	12,339.065	SHAFT MULLOCK
23	HC5/18	158	02	30	16.025	12,578.760	12,336.497	SHAFT MULLOCK
24	HC5/19	180	03	00	14.219	12,579.403	12,330.492	SHAFT MULLOCK
25	HC5/20	195	53	45	11.236	12,582.816	12,327.427	SHAFT MULLOCK
26	HC5/21	200	31	00	6.443	12,587.588	12,328.246	EDGE OF SHAFT
27	HC5/22	161	23	00	6.702	12,587.271	12,332.644	EDGE OF SHAFT
28	HC5/23	147	16	00	11.076	12,584.305	12,336.493	EDGE OF SHAFT
29	HC5/24	163	06	45	13.055	12,581.130	12,334.297	EDGE OF SHAFT
30	HC5/25	183	22	30	10.345	12,583.295	12,329.895	EDGE OF SHAFT
31	HC5/26	165	55	00	10.054	12,583.870	12,332.951	CENTRE OF SHAFT
32	HC5/27	121	45	00	8.383	12,589.211	12,337.633	WASTE DUMP
33	HC5/28	127	15	00	11.440	12,586.698	12,339.611	WASTE DUMP

H/WAY COPPER MAP 1

	A	B	C	D	E	F	G	H
34	HC5/29	134	39	00	14.466	12,583.456	12,340.796	WASTE DUMP
35	HC5/30	081	18	30	12.437	12,595.502	12,342.798	WASTE DUMP 2
36	HC5/31	090	26	30	15.271	12,593.504	12,345.775	WASTE DUMP 2
37	HC5/32	097	55	30	13.723	12,591.730	12,344.096	WASTE DUMP 2
38	HC5/33	091	34	00	10.932	12,593.323	12,341.432	WASTE DUMP 2
39	HC5/34	154	44	00	34.699	12,562.243	12,345.315	PIT
40	HC5/35	154	55	00	36.275	12,560.768	12,345.883	PIT
41	HC5/36	157	02	30	36.319	12,560.180	12,344.671	PIT
42	HC5/37	157	10	00	34.526	12,561.802	12,343.902	PIT
43	HC5/38	152	09	15	34.066	12,563.501	12,346.416	EAST DUMP
44	HC5/39	149	57	30	36.471	12,562.051	12,348.763	EAST DUMP
45	HC5/40	152	55	15	38.320	12,559.503	12,347.948	EAST DUMP
46	HC5/41	153	56	45	35.742	12,561.512	12,346.203	EAST DUMP
47	HC5/42	159	30	30	33.345	12,562.387	12,342.177	WEST DUMP
48	HC5/43	161	02	30	37.686	12,557.980	12,342.748	WEST DUMP
49	HC5/44	163	32	00	35.251	12,559.817	12,340.496	WEST DUMP
50	HC5/45	163	42	45	25.378	12,569.263	12,337.622	PIT
51	HC5/46	163	57	00	27.244	12,567.440	12,338.037	PIT
52	HC5/47	165	08	30	27.469	12,567.072	12,337.548	PIT
53	HC5/48	171	54	00	25.646	12,568.232	12,334.118	PIT
54	HC5/49	141	57	00	49.695	12,554.489	12,361.134	WASTE
55	HC5/50	139	16	30	51.132	12,554.872	12,363.864	WASTE
56	HC5/51	141	34	30	53.280	12,551.881	12,363.617	WASTE
57	HC5/52	143	43	00	51.148	12,552.392	12,360.773	WASTE
58	HC5/53	137	16	00	58.784	12,550.444	12,370.394	ROAD
59	HC5/54	137	11	00	65.937	12,545.255	12,375.319	ROAD
60	HC5/55	141	51	00	67.810	12,540.297	12,372.392	ROAD
61	HC5/56	142	56	00	61.196	12,544.792	12,367.390	ROAD
62	HC6	155	52	00	84.873	12,516.167	12,365.206	HC5-HC6
63	HC7	245	52	00	129.282	12,540.764	12,212.522	HC5-HC7
64	HC8	335	52	00	146.079	12,726.933	12,270.778	HC5-HC8
65	HC9	065	52	00	89.772	12,630.326	12,412.430	HC5-HC9
66	HC6/1	019	48	45	75.058	12,586.782	12,390.646	North side of Track from HC6

H/WAY COPPER MAP 1

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	Observed Bearing			Distance		Slope		True bearing			True dist	Description
2	02	160	13	30	174.815	270	04	00	000	00	00	175.000	Back sight to 001
3	HC1	254	51	30	111.770	269	22	00	243	35	00	112.000	Highway Copper HC1
4	HC3	009	58	30	8.852	265	21	30	009	58	30	8.823	HC1-HC3
5	HC5	155	52	00	9.962	273	08	45	155	52	00	9.947	HC3-HC5
6	01	018	45	00	9.194	270	46	30	174	37	00	9.193	EDGE OF MULLOCK
7	02	035	16	45	7.484	270	26	30	011	08	45	7.484	EDGE OF MULLOCK
8	03	060	14	15	0.000	000	00	00	035	66	15	0.000	EDGE OF MULLOCK
9	04	123	33	30	3.388	267	53	00	099	25	30	3.386	EDGE OF MULLOCK
10	05	172	49	00	3.426	266	55	00	148	41	00	3.421	EDGE OF MULLOCK
11	06	260	23	30	6.627	266	43	30	236	15	30	6.616	EDGE OF MULLOCK
12	07	281	16	30	8.953	267	47	30	257	08	30	8.946	EDGE OF MULLOCK
13	08	311	08	00	11.107	268	52	00	287	00	00	11.105	EDGE OF MULLOCK
14	09	332	59	30	11.123	269	15	00	308	51	30	11.122	EDGE OF MULLOCK
15	10	350	23	00	10.342	269	20	00	326	15	00	10.341	END OF STOPE
16	11	358	49	00	8.970	269	29	30	334	41	00	8.970	END OF STOPE
17	12	004	40	00	8.941	269	29	30	022	32	00	8.941	ORE PILE
18	13	124	05	00	5.779	269	52	00	099	57	00	5.779	ORE PILE
19	14	095	42	30	5.183	269	52	00	071	34	30	5.183	SHAFT MULLOCK
20	15	193	09	00	5.261	267	24	00	169	01	00	5.256	SHAFT MULLOCK
21	16	163	43	00	7.394	268	41	00	139	35	00	7.392	SHAFT MULLOCK
22	17	166	14	00	13.939	268	49	00	142	06	00	13.936	SHAFT MULLOCK
23	18	182	16	30	16.029	268	44	00	158	02	30	16.025	SHAFT MULLOCK
24	19	204	11	00	14.231	267	41	00	180	03	00	14.219	SHAFT MULLOCK
25	20	220	01	45	11.246	267	37	30	195	53	45	11.236	SHAFT MULLOCK
26	21	224	39	00	6.451	267	05	30	200	31	00	6.443	EDGE OF SHAFT
27	22	185	31	00	6.703	270	52	00	161	23	00	6.702	EDGE OF SHAFT
28	23	171	24	00	11.092	273	07	00	147	16	00	11.076	EDGE OF SHAFT
29	24	187	14	45	13.065	272	17	30	163	06	45	13.055	EDGE OF SHAFT
30	25	207	30	30	10.359	273	01	30	183	22	30	10.345	EDGE OF SHAFT
31	26	190	03	00	10.116	263	39	00	165	55	00	10.054	CENTRE OF SHAFT
32	27	145	53	00	8.385	268	47	30	121	45	00	8.383	WASTE DUMP
33	28	151	23	00	11.442	268	55	30	127	15	00	11.440	WASTE DUMP

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	29	158	47	00	14.468	268	58	00	134	39	00	14.466	WASTE DUMP
35	30	105	26	30	12.437	269	51	30	081	18	30	12.437	WASTE DUMP 2
36	31	114	34	30	15.271	269	46	00	090	26	30	15.271	WASTE DUMP 2
37	32	122	03	30	13.724	269	30	00	097	55	30	13.723	WASTE DUMP 2
38	33	115	42	00	10.932	269	30	00	091	34	00	10.932	WASTE DUMP 2
39	34	178	52	00	34.707	268	45	30	154	44	00	34.699	PIT
40	35	179	03	00	36.284	268	43	30	154	55	00	36.275	PIT
41	36	181	10	30	36.334	268	21	30	157	02	30	36.319	PIT
42	37	181	18	00	34.538	268	28	30	157	10	00	34.526	PIT
43	38	176	17	15	34.070	269	09	00	152	09	15	34.066	EAST DUMP
44	39	174	05	30	36.475	269	08	00	149	57	30	36.471	EAST DUMP
45	40	177	03	15	38.325	269	03	00	152	55	15	38.320	EAST DUMP
46	41	178	04	45	35.748	268	59	00	153	56	45	35.742	EAST DUMP
47	42	183	38	30	33.353	268	43	30	159	30	30	33.345	WEST DUMP
48	43	185	10	30	37.698	268	34	00	161	02	30	37.686	WEST DUMP
49	44	187	40	00	35.262	268	34	00	163	32	00	35.251	WEST DUMP
50	45	187	50	45	25.385	268	36	30	163	42	45	25.378	PIT
51	46	187	65	00	27.251	268	42	00	163	57	00	27.244	PIT
52	47	189	16	30	27.476	268	43	30	165	08	30	27.469	PIT
53	48	196	02	00	25.653	268	41	30	171	54	00	25.646	PIT
54	49	166	05	00	49.700	269	09	00	141	57	00	49.695	WASTE
55	50	163	24	30	51.137	269	13	30	139	16	30	51.132	WASTE
56	51	165	42	30	53.286	269	09	30	141	34	30	53.280	WASTE
57	52	167	51	00	51.148	269	64	30	143	43	00	51.148	WASTE
58	53	161	24	00	58.789	269	13	00	137	16	00	58.784	ROAD
59	54	161	19	00	65.943	269	14	00	137	11	00	65.937	ROAD
60	55	165	59	00	67.818	269	06	00	141	51	00	67.810	ROAD
61	56	167	04	00	61.203	269	08	30	142	56	00	61.196	ROAD
62	HC6	180	00	00	84.900	268	33	30	155	52	00	84.873	HC5-HC6
63	HC7	270	00	00	129.419	267	22	00	245	52	00	129.282	HC5-HC7
64	HC8	000	00	00	146.079	270	00	00	335	52	00	146.079	HC5-HC8
65	HC9	090	00	00	89.776	270	34	00	065	52	00	89.772	HC5-HC9
66	HC6/1	019	50	15	75.072	271	06	30	019	48	45	75.058	North side of Track from HC6

H/WAY COPPER MAP 2

	A	B	C	D	E	F	G	H
1	HC6/2	018	40	00	67.072	12,579.711	12,386.673	North side of Track from HC6
2	HC6/3	016	51	15	59.024	12,572.656	12,382.319	North side of Track from HC6
3	HC6/4	013	46	30	48.147	12,562.930	12,376.670	North side of Track from HC6
4	HC6/5	010	26	30	39.959	12,555.465	12,372.448	North side of Track from HC6
5	HC6/6	005	16	15	31.867	12,547.900	12,368.133	North side of Track from HC6
6	HC6/7	353	41	45	22.063	12,538.097	12,362.783	North side of Track from HC6
7	HC6/8	335	39	15	15.774	12,530.539	12,358.703	North side of Track from HC6
8	HC6/9	304	56	30	12.540	12,523.350	12,354.926	North side of Track from HC6
9	HC6/10	269	20	15	14.509	12,516.000	12,350.698	North side of Track from HC6
10	HC6/11	249	11	00	20.101	12,509.024	12,346.417	North side of Track from HC6
11	HC6/12	237	45	15	26.822	12,501.856	12,342.520	North side of Track from HC6
12	HC6/13	231	06	00	34.421	12,494.552	12,338.418	North side of Track from HC6
13	HC6/14	226	39	30	42.125	12,487.255	12,334.569	North side of Track from HC6
14	HC6/15	215	49	30	41.247	12,482.724	12,341.063	South side of Track from HC6
15	HC6/16	220	04	30	25.834	12,496.399	12,348.574	South side of Track from HC6
16	HC6/17	224	41	30	17.902	12,503.441	12,352.615	South side of Track from HC6
17	HC6/18	239	37	00	9.884	12,511.168	12,356.679	South side of Track from HC6
18	HC6/19	303	09	30	4.830	12,518.809	12,361.162	South side of Track from HC6
19	HC6/20	005	59	30	12.369	12,528.469	12,366.497	South side of Track from HC6
20	HC6/21	016	19	30	19.716	12,535.088	12,370.747	South side of Track from HC6
21	HC6/22	019	32	15	27.914	12,542.474	12,374.541	South side of Track from HC6
22	HC6/23	022	54	30	40.335	12,553.321	12,380.906	South side of Track from HC6
23	HC6/24	023	11	00	49.189	12,561.384	12,384.570	South side of Track from HC6
24	HC6/25	025	09	45	63.884	12,573.989	12,392.368	South side of Track from HC6
25	HC6/26	025	57	00	74.144	12,582.836	12,397.650	South side of Track from HC6
26	HC6/27	037	44	30	49.498	12,555.309	12,395.503	Road Cutting Spoil Heap
27	HC6/28	032	21	30	41.542	12,551.259	12,387.439	Road Cutting Spoil Heap
28	HC6/29	057	09	30	32.732	12,533.919	12,392.706	Road Cutting Spoil Heap
29	HC6/30	092	39	45	36.525	12,514.471	12,401.691	Road Cutting Spoil Heap
30	HC6/31	103	54	00	46.991	12,504.879	12,410.821	Road Cutting Spoil Heap
31	HC6/32	111	04	45	68.757	12491.438	12429.362	Road Cutting Spoil Heap
32	HC6/33	105	56	30	74.678	12495.656	12437.012	Road Cutting Spoil Heap
33	HC10	155	52	00	190.017	12342.759	12442.896	HC6-HC10

H/WAY COPPER MAP 2

	A	B	C	D	E	F	G	H
34	HC11/1	310	37	15	92.376	12325.574	12300.418	EAST BANK OF CREEK
35	HC11/2	315	10	15	91.414	12330.264	12306.088	EAST BANK OF CREEK
36	HC11/3	313	16	45	82.435	12321.946	12310.521	EAST BANK OF CREEK
37	HC11/4	314	52	45	73.425	12317.242	12318.507	EAST BANK OF CREEK
38	HC11/5	318	28	0	78.445	12324.154	12318.522	EAST BANK OF CREEK
39	HC11/6	315	19	0	76.128	12319.56	12317.003	EAST BANK OF CREEK
40	HC11/7	310	42	0	61.175	12305.324	12324.156	EAST BANK OF CREEK
41	HC11/8	305	11	0	53.996	12296.545	12326.403	EAST BANK OF CREEK
42	HC11/9	296	10	45	50.906	12287.891	12324.851	EAST BANK OF CREEK
43	HC11/10	274	19	0	40.319	12268.467	12330.331	EAST BANK OF CREEK
44	HC11/11	255	00	00	40.708	12254.896	12331.214	EAST BANK OF CREEK
45	HC11/12	237	50	30	44.188	12241.913	12333.127	EAST BANK OF CREEK
46	HC11/13	229	20	00	53.943	12230.28	12329.619	EAST BANK OF CREEK
47	HC11/14	228	19	30	66.043	12221.52	12321.206	EAST BANK OF CREEK
48	HC11/15	223	21	30	72.623	12212.63	12320.675	EAST BANK OF CREEK
49	HC11/16	217	15	00	85.425	12197.434	12318.828	EAST BANK OF CREEK
50	HC11/17	212	41	30	99.84	12181.408	12316.61	EAST BANK OF CREEK
51	HC11/18	208	32	30	122.053	12158.213	12312.219	EAST BANK OF CREEK
52	HC11/19	207	23	30	128.472	12151.364	12311.429	EAST BANK OF CREEK
53	HC11/20	208	31	30	130.553	12150.727	12308.191	WEST BANK OF CREEK
54	HC11/21	212	16	15	107.35	12174.664	12313.219	WEST BANK OF CREEK
55	HC11/22	215	45	00	98.568	12185.437	12312.947	WEST BANK OF CREEK
56	HC11/23	222	24	15	78.957	12207.13	12317.29	WEST BANK OF CREEK
57	HC11/24	229	48	30	68.019	12221.536	12318.576	WEST BANK OF CREEK
58	HC11/25	231	11	00	59.17	12228.343	12324.433	WEST BANK OF CREEK
59	HC11/26	239	43	00	50.802	12239.814	12326.666	WEST BANK OF CREEK
60	HC11/27	255	59	30	44.746	12254.601	12327.12	WEST BANK OF CREEK
61	HC11/28	274	01	00	44.141	12268.524	12326.503	WEST BANK OF CREEK
62	HC11/29	190	01	00	51.051	12215.159	12361.656	WEST BANK OF CREEK
63	HC11/30	310	49	00	64.874	12307.837	12321.438	WEST BANK OF CREEK
64	HC11/31	311	21	15	82.227	12319.76	12308.813	WEST BANK OF CREEK
65	HC11/32	312	57	30	90.132	12326.854	12304.572	WEST BANK OF CREEK
66	HC11/33	309	50	30	90.781	12323.593	12300.832	WEST BANK OF CREEK

	A	B	C	D	E	F	G	H
67	HC11/34	342	21	30	68.629	12330.833	12349.736	East Edge of Alluvium
68	HC11/35	331	40	15	40.52	12301.1	12351.307	East Edge of Alluvium
69	HC11/36	303	16	45	30.02	12281.905	12345.439	East Edge of Alluvium
70	HC11/37	262	43	00	27.96	12261.888	12342.801	East Edge of Alluvium
71	HC11/38	236	07	15	31.866	12247.669	12344.08	East Edge of Alluvium
72	HC11/39	223	09	30	42.87	12234.16	12341.211	East Edge of Alluvium
73	HC11/40	223	12	00	58.494	12222.792	12330.493	East Edge of Alluvium
74	HC11/41	214	51	00	70.206	12207.817	12330.417	East Edge of Alluvium
75	HC11/42	211	00	30	73.849	12202.137	12332.491	East Edge of Alluvium
76	HC11/43	361	47	30	4.478	12269.908	12370.675	FAULT ZONE CONTROL
77	HC11/44	178	18	00	4.793	12260.641	12370.677	FAULT ZONE CONTROL
78	HC11/45	178	35	45	11.69	12253.746	12370.822	FAULT ZONE CONTROL
79	HC11/46	178	57	00	18.472	12246.963	12370.874	FAULT ZONE CONTROL
80	HC11/47	179	34	30	24.795	12240.638	12370.719	FAULT ZONE CONTROL
81	HC11/48	182	41	00	48.19	12217.295	12368.279	FAULT ZONE CONTROL
82	HC11/49	181	21	00	65.125	12200.325	12369.001	FAULT ZONE CONTROL
83	HC12/1	283	31	30	34.184	12192.269	12338.421	EDGE OF ALLUVIUM
84	HC12/2	311	53	00	18.58	12196.679	12357.823	EDGE OF ALLUVIUM
85	HC12/3	345	41	00	12.915	12196.788	12368.463	EDGE OF ALLUVIUM
86	HC12/4	305	56	15	14.055	12192.523	12360.277	EDGE OF ALLUVIUM
87	HC12/5	289	38	30	11.671	12188.197	12360.665	EDGE OF ALLUVIUM
88	HC12/6	262	21	30	30.621	12180.202	12341.307	EDGE OF ALLUVIUM
89	HC12/7	238	26	30	29.582	12168.792	12346.45	EDGE OF ALLUVIUM
90	HC12/8	203	05	30	33.023	12153.897	12358.705	EDGE OF ALLUVIUM
91	HC12/9	182	40	00	41.206	12143.113	12369.74	EDGE OF ALLUVIUM
92	HC12/10	176	28	30	56.902	12127.48	12375.155	EDGE OF ALLUVIUM
93	HC12/11	171	21	00	62.92	12122.069	12381.12	EDGE OF ALLUVIUM
94	HC12/12	162	26	00	84.913	12103.321	12397.285	EDGE OF ALLUVIUM
95	HC12/13	156	41	30	102.22	12090.396	12412.103	EDGE OF ALLUVIUM
96	HC12/14	160	27	30	96.792	12093.057	12404.033	EDGE OF ALLUVIUM
97	HC12/15	162	24	00	87.128	12101.224	12398.002	EDGE OF ALLUVIUM
98	HC12/16	171	25	30	76.012	12109.112	12382.99	EDGE OF ALLUVIUM
99	HC12/17	179	43	00	65.169	12119.106	12371.979	EDGE OF ALLUVIUM

H/WAY COPPER MAP 2

	A	B	C	D	E	F	G	H
100	HC12/18	185	52	00	52.034	12132.513	12366.338	EDGE OF ALLUVIUM
101	HC12/19	187	24	30	43.609	12141.029	12366.034	EDGE OF ALLUVIUM
102	HC12/20	207	65	00	42.768	12146.541	12351.523	EDGE OF ALLUVIUM
103	HC12/21	239	59	30	69.639	12149.446	12311.353	EAST BANK OF CREEK
104	HC12/22	224	35	00	108.552	12106.96	12295.459	EAST BANK OF CREEK
105	HC12/23	223	25	00	123.519	12094.553	12286.762	EAST BANK OF CREEK
106	HC12/24	223	12	00	140.153	12082.107	12275.716	EAST BANK OF CREEK
107	HC12/25	225	03	30	137.549	12087.111	12274.296	WEST BANK OF CREEK
108	HC12/26	235	57	45	80.379	12139.283	12305.049	WEST BANK OF CREEK
109	HC12/27	178	20	30	27.735	12156.551	12372.459	1
110	HC12/28	161	32	30	42.65	12143.818	12385.16	2
111	HC12/29	173	54	30	38.114	12146.375	12375.701	SMALL CREEK
112	HC12/30	140	54	00	58.661	12138.75	12408.653	SMALL CREEK

H/WAY COPPER MAP 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	HC6/2	018	41	30	67.085	271	07	00	018	40	00	67.072	North side of Track from HC6
2	HC6/3	016	52	45	59.035	271	05	00	016	51	15	59.024	North side of Track from HC6
3	HC6/4	013	48	00	48.155	271	02	00	013	46	30	48.147	North side of Track from HC6
4	HC6/5	010	28	00	39.963	270	50	00	010	26	30	39.959	North side of Track from HC6
5	HC6/6	005	17	45	31.869	270	40	30	005	16	15	31.867	North side of Track from HC6
6	HC6/7	353	43	15	22.063	270	11	00	353	41	45	22.063	North side of Track from HC6
7	HC6/8	355	40	45	15.775	269	23	30	335	39	15	15.774	North side of Track from HC6
8	HC6/9	304	58	00	12.541	269	13	30	304	56	30	12.540	North side of Track from HC6
9	HC6/10	269	21	45	14.522	267	35	00	269	20	15	14.509	North side of Track from HC6
10	HC6/11	249	12	30	20.118	267	38	00	249	11	00	20.101	North side of Track from HC6
11	HC6/12	237	46	45	26.845	267	38	00	237	45	15	26.822	North side of Track from HC6
12	HC6/13	231	07	30	34.447	267	46	00	231	06	00	34.421	North side of Track from HC6
13	HC6/14	226	41	00	42.159	267	42	00	226	39	30	42.125	North side of Track from HC6
14	HC6/15	215	51	00	41.274	267	55	15	215	49	30	41.247	South side of Track from HC6
15	HC6/16	220	06	00	25.859	267	27	45	220	04	30	25.834	South side of Track from HC6
16	HC6/17	224	43	00	17.920	267	27	45	224	41	30	17.902	South side of Track from HC6
17	HC6/18	239	38	30	9.912	265	43	30	239	37	00	9.884	South side of Track from HC6
18	HC6/19	303	11	00	4.850	264	44	00	303	09	30	4.830	South side of Track from HC6
19	HC6/20	006	01	00	12.369	269	36	00	005	59	30	12.369	South side of Track from HC6
20	HC6/21	016	21	00	19.717	270	41	30	016	19	30	19.716	South side of Track from HC6
21	HC6/22	019	34	15	27.917	270	50	00	019	32	15	27.914	South side of Track from HC6
22	HC6/23	022	56	00	40.341	271	00	00	022	54	30	40.335	South side of Track from HC6
23	HC6/24	023	12	30	49.196	270	57	00	023	11	00	49.189	South side of Track from HC6
24	HC6/25	025	11	15	63.895	271	04	00	025	09	45	63.884	South side of Track from HC6
25	HC6/26	025	58	30	74.157	271	04	00	025	57	00	74.144	South side of Track from HC6
26	HC6/27	037	46	00	49.507	271	07	00	037	44	30	49.498	Road Cutting Spoil Heap
27	HC6/28	032	23	00	41.550	271	07	00	032	21	30	41.542	Road Cutting Spoil Heap
28	HC6/29	057	11	00	32.738	271	05	00	057	09	30	32.732	Road Cutting Spoil Heap
29	HC6/30	092	41	15	36.530	270	56	30	092	39	45	36.525	Road Cutting Spoil Heap
30	HC6/31	103	55	30	46.996	270	51	00	103	54	00	46.991	Road Cutting Spoil Heap
31	HC6/32	111	06	15	68.764	270	48	30	111	04	45	68.757	Road Cutting Spoil Heap
32	HC6/33	105	58	00	74.687	270	54	15	105	56	30	74.678	Road Cutting Spoil Heap
33	HC10	180	00	00	190.017	270	06	00	155	52	00	190.017	HC6–HC10

H/WAY COPPER MAP 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	HC11/1	267	31	15	92.389	269	11	0	310	37	15	92.376	EAST BANK OF CREEK
35	HC11/2	272	4	15	91.427	269	27	0	315	10	15	91.414	EAST BANK OF CREEK
36	HC11/3	270	10	45	82.446	269	8	30	313	16	45	82.435	EAST BANK OF CREEK
37	HC11/4	271	46	45	73.467	268	52	15	314	52	45	73.425	EAST BANK OF CREEK
38	HC11/5	275	22	0	78.49	268	51	0	318	28	0	78.445	EAST BANK OF CREEK
39	HC11/6	272	13	0	76.172	268	50	0	315	19	0	76.128	EAST BANK OF CREEK
40	HC11/7	267	36	0	61.21	268	43	30	310	42	0	61.175	EAST BANK OF CREEK
41	HC11/8	262	5	0	54.068	267	58	0	305	11	0	53.996	EAST BANK OF CREEK
42	HC11/9	253	4	45	50.913	269	0	0	296	10	45	50.906	EAST BANK OF CREEK
43	HC11/10	231	13	0	40.372	267	46	0	274	19	0	40.319	EAST BANK OF CREEK
44	HC11/11	211	54	00	40.732	268	38	00	255	00	00	40.708	EAST BANK OF CREEK
45	HC11/12	194	44	30	44.213	268	46	15	237	50	30	44.188	EAST BANK OF CREEK
46	HC11/13	186	14	00	53.950	269	03	00	229	20	00	53.943	EAST BANK OF CREEK
47	HC11/14	185	13	30	66.081	268	43	00	228	19	30	66.043	EAST BANK OF CREEK
48	HC11/15	180	15	30	72.665	268	52	00	223	21	30	72.623	EAST BANK OF CREEK
49	HC11/16	174	09	00	85.437	269	07	00	217	15	00	85.425	EAST BANK OF CREEK
50	HC11/17	169	35	30	99.854	269	26	00	212	41	30	99.840	EAST BANK OF CREEK
51	HC11/18	165	26	30	122.069	269	23	30	208	32	30	122.053	EAST BANK OF CREEK
52	HC11/19	164	17	30	128.490	269	25	00	207	23	30	128.472	EAST BANK OF CREEK
53	HC11/20	165	25	30	130.571	269	29	00	208	31	30	130.553	WEST BANK OF CREEK
54	HC11/21	169	10	15	107.365	269	19	00	212	16	15	107.350	WEST BANK OF CREEK
55	HC11/22	172	39	00	98.582	269	22	00	215	45	00	98.568	WEST BANK OF CREEK
56	HC11/23	179	18	15	78.968	269	11	00	222	24	15	78.957	WEST BANK OF CREEK
57	HC11/24	186	42	30	68.058	268	45	30	229	48	30	68.019	WEST BANK OF CREEK
58	HC11/25	188	05	00	59.204	268	26	00	231	11	00	59.170	WEST BANK OF CREEK
59	HC11/26	196	37	00	50.831	268	53	00	239	43	00	50.802	WEST BANK OF CREEK
60	HC11/27	212	53	30	44.772	268	39	00	255	59	30	44.746	WEST BANK OF CREEK
61	HC11/28	230	55	0	44.166	268	35	30	274	1	0	44.141	WEST BANK OF CREEK
62	HC11/29	146	55	0	51.081	268	50	0	190	1	0	51.051	WEST BANK OF CREEK
63	HC11/30	267	43	0	64.912	268	50	0	310	49	0	64.874	WEST BANK OF CREEK
64	HC11/31	268	15	15	82.274	268	54	30	311	21	15	82.227	WEST BANK OF CREEK
65	HC11/32	269	51	30	90.144	269	20	30	312	57	30	90.132	WEST BANK OF CREEK
66	HC11/33	266	44	30	90.793	269	03	30	309	50	30	90.781	WEST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	HC11/34	299	15	30	68.638	269	46	15	342	21	30	68.629	East Edge of Alluvium
68	HC11/35	288	34	15	40.526	269	34	15	331	40	15	40.520	East Edge of Alluvium
69	HC11/36	260	10	45	30.037	268	32	30	303	16	45	30.020	East Edge of Alluvium
70	HC11/37	219	37	00	27.976	268	12	00	262	43	00	27.960	East Edge of Alluvium
71	HC11/38	193	01	15	31.908	267	59	30	236	07	15	31.866	East Edge of Alluvium
72	HC11/39	180	03	30	42.895	268	20	00	223	09	30	42.870	East Edge of Alluvium
73	HC11/40	180	06	00	58.528	268	43	00	223	12	00	58.494	East Edge of Alluvium
74	HC11/41	171	45	00	70.216	269	04	00	214	51	00	70.206	East Edge of Alluvium
75	HC11/42	167	54	30	73.859	269	09	00	211	00	30	73.849	East Edge of Alluvium
76	HC11/43	318	41	30	4.484	267	36	15	361	47	30	4.478	FAULT ZONE CONTROL
77	HC11/44	135	12	00	4.794	269	17	00	178	18	00	4.793	FAULT ZONE CONTROL
78	HC11/45	135	29	45	11.690	270	51	30	178	35	45	11.690	FAULT ZONE CONTROL
79	HC11/46	135	51	00	18.472	270	46	30	178	57	00	18.472	FAULT ZONE CONTROL
80	HC11/47	136	28	30	24.795	270	32	15	179	34	30	24.795	FAULT ZONE CONTROL
81	HC11/48	139	35	00	48.190	270	21	00	182	41	00	48.190	FAULT ZONE CONTROL
82	HC11/49	138	15	00	65.134	269	58	30	181	21	00	65.125	FAULT ZONE CONTROL
83	HC12/1	284	19	00	34.229	267	53	00	283	31	30	34.184	EDGE OF ALLUVIUM
84	HC12/2	312	40	30	18.583	269	52	15	311	53	00	18.580	EDGE OF ALLUVIUM
85	HC12/3	346	28	30	12.917	271	50	00	345	41	00	12.915	EDGE OF ALLUVIUM
86	HC12/4	306	43	45	14.057	269	49	30	305	56	15	14.055	EDGE OF ALLUVIUM
87	HC12/5	470	26	00	11.678	268	58	30	289	38	30	11.671	EDGE OF ALLUVIUM
88	HC12/6	263	09	00	30.662	267	50	00	262	21	30	30.621	EDGE OF ALLUVIUM
89	HC12/7	239	14	00	29.621	267	53	00	238	26	30	29.582	EDGE OF ALLUVIUM
90	HC12/8	203	53	00	33.067	267	22	00	203	05	30	33.023	EDGE OF ALLUVIUM
91	HC12/9	183	27	30	41.230	268	13	00	182	40	00	41.206	EDGE OF ALLUVIUM
92	HC12/10	177	16	00	56.910	269	06	00	176	28	30	56.902	EDGE OF ALLUVIUM
93	HC12/11	172	08	30	62.929	269	00	00	171	21	00	62.920	EDGE OF ALLUVIUM
94	HC12/12	163	13	30	84.925	269	52	00	162	26	00	84.913	EDGE OF ALLUVIUM
95	HC12/13	157	29	00	102.220	270	06	00	156	41	30	102.220	EDGE OF ALLUVIUM
96	HC12/14	161	15	00	96.792	270	06	30	160	27	30	96.792	EDGE OF ALLUVIUM
97	HC12/15	163	11	30	87.140	269	58	00	162	24	00	87.128	EDGE OF ALLUVIUM
98	HC12/16	172	13	00	76.022	269	39	00	171	25	30	76.012	EDGE OF ALLUVIUM
99	HC12/17	180	30	30	65.178	269	30	00	179	43	00	65.169	EDGE OF ALLUVIUM

H/WAY COPPER MAP 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
100	HC12/18	186	39	30	52.064	268	55	00	185	52	00	52.034	EDGE OF ALLUVIUM
101	HC12/19	188	12	00	43.634	268	22	00	187	24	30	43.609	EDGE OF ALLUVIUM
102	HC12/20	208	52	30	42.793	268	05	00	207	65	00	42.768	EDGE OF ALLUVIUM
103	HC12/21	240	47	00	69.679	268	35	00	239	59	30	69.639	EAST BANK OF CREEK
104	HC12/22	225	22	30	108.567	269	02	00	224	35	00	108.552	EAST BANK OF CREEK
105	HC12/23	224	12	30	123.536	269	13	30	223	25	00	123.519	EAST BANK OF CREEK
106	HC12/24	223	59	30	140.172	269	17	00	223	12	00	140.153	EAST BANK OF CREEK
107	HC12/25	225	51	00	137.568	269	19	00	225	03	30	137.549	WEST BANK OF CREEK
108	HC12/26	236	45	15	80.425	268	43	30	235	57	45	80.379	WEST BANK OF CREEK
109	HC12/27	179	08	00	27.735	270	34	00	178	20	30	27.735	1
110	HC12/28	162	20	00	42.675	268	56	30	161	32	30	42.650	2
111	HC12/29	174	42	00	38.136	268	02	30	173	54	30	38.114	SMALL CREEK
112	HC12/30	141	41	30	58.661	270	35	00	140	54	00	58.661	SMALL CREEK

H/WAY COPPER MAP 3

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	HC7	000	00	00		12,540.764	12,212.522	HC7
3	HC7/1	327	15	00	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
4	HC7/2	327	22	00	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
5	HC7/3	331	42	30	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
6	HC7/4	342	43	00	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
7	HC7/5	341	30	30	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
8	HC7/6	347	32	00	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
9	HC7/7	354	40	30	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
10	HC7/8	358	59	30	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
11	HC7/9	374	34	00	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
12	HC7/10	039	11	30	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
13	HC7/11	061	15	00	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
14	HC7/12	083	56	00	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
15	HC7/13	097	42	00	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
16	HC7/14	115	18	00	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
17	HC7/15	132	14	30	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
18	HC7/16	138	53	00	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
19	HC7/17	148	37	00	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
20	HC7/18	154	48	00	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
21	HC7/19	159	45	45	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
22	HC7/20	163	42	30	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
23	HC7/21	167	59	30	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
24	HC7/22	168	27	30	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
25	HC7/23	167	50	30	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
26	HC7/24	164	37	00	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
27	HC7/25	162	40	00	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
28	HC7/26	162	41	15	111.121	12,434.677	12,245.590	EAST BANK OF CREEK
29	HC7/27	161	12	30	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
30	HC7/28	156	09	00	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
31	HC7/29	150	05	00	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
32	HC7/30	147	31	30	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
33	HC7/31	145	37	30	115.058	12,445.799	12,277.485	EAST BANK OF CREEK

H/WAY COPPER MAP 3

	A	B	C	D	E	F	G	H
34	Station	True bearing			True dist	Northing	Easting	Description
35	HC7/32	146	21	00	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
36	HC7/32	148	28	30	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
37	HC7/33	149	35	45	107.645	12,447.922	12,267.001	WEST BANK OF CREEK
38	HC7/34	151	43	30	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
39	HC7/35	158	35	00	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
40	HC7/36	159	50	30	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
41	HC7/37	157	37	30	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
42	HC7/38	159	39	00	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
43	HC7/39	163	53	00	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
44	HC7/40	167	23	30	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
45	HC7/41	170	40	00	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
46	HC7/42	168	56	00	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
47	HC7/43	162	57	30	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
48	HC7/44	146	50	00	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
49	HC7/45	138	59	30	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
50	HC7/46	122	36	00	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
51	HC7/47	083	11	30	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
52	HC7/48	059	06	30	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
53	HC7/49	039	04	30	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
54	HC7/50	033	04	00	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
55	HC7/51	015	58	00	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
56	HC7/52	353	56	00	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
57	HC7/53	349	30	00	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
58	HC7/54	346	01	00	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
59	HC7/55	341	19	30	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
60	HC7/56	339	26	45	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
61	HC7/57	326	02	00	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
62	HC7/58	323	43	30	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
63	HC7/59	322	33	15	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
64	HC7/60	196	22	00	145.831	12,400.842	12,171.429	Western Edge of Alluvium
65	HC7/61	199	03	45	122.928	12,424.577	12,172.374	Western Edge of Alluvium
66	HC7/62	207	01	00	104.091	12,448.032	12,165.239	Western Edge of Alluvium

H/WAY COPPER MAP 3

	A	B	C	D	E	F	G	H
67	Station	True bearing			True dist	Northing	Easting	Description
68	HC7/63	214	44	30	93.852	12,463.643	12,159.038	Western Edge of Alluvium
69	HC7/64	249	13	30	63.153	12,518.363	12,153.475	Western Edge of Alluvium
70	HC7/65	273	09	00	61.217	12,544.128	12,151.397	Western Edge of Alluvium
71	HC7/66	293	06	30	84.850	12,574.065	12,134.480	Western Edge of Alluvium
72	HC7/67	297	55	00	101.140	12,588.116	12,123.152	Western Edge of Alluvium
73	HC7/68	297	22	00	111.514	12,592.025	12,113.488	Western Edge of Alluvium
74	HC7/69	299	43	30	127.073	12,603.771	12,102.170	Western Edge of Alluvium
75	HC7/70	304	52	00	143.860	12,623.004	12,094.487	Western Edge of Alluvium
76	HC7/71	349	31	00	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
77	HC7/72	003	53	30	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
78	HC7/73	029	35	30	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
79	HC7/74	055	45	00	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium
80	HC7/75	081	14	30	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
81	HC7/76	101	59	45	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
82	HC7/77	122	42	30	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
83	HC7/78	113	34	00	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
84	HC2/1	132	41	0	30.538	12499.687	12433.052	Cut Spoil Heap
85	HC2/2	111	0	15	12.796	12515.804	12422.548	Cut Spoil Heap
86	HC2/3	73	7	30	15.842	12524.989	12425.763	Cut Spoil Heap
87	HC2/4	019	49	45	21.778	12,540.877	12,417.990	Cut Spoil Heap
88	HC2/5	355	30	00	26.114	12,546.423	12,408.554	Cut Spoil Heap
89	HC2/6	027	57	30	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
90	HC2/7	053	10	30	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
91	HC2/8	047	34	30	32.474	12,542.298	12,434.574	Cut Spoil Heap 2
92	HC2/9	060	50	45	23.089	12,531.638	12,430.767	Cut Spoil Heap 2

H/WAY COPPER MAP 3

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
2	HC7	000	00	00					065	52	00		Starting Bearing
3	HC7/1	261	23	00	78.470	270	01	00	327	15	00	78.470	EAST BANK OF CREEK
4	HC7/2	261	30	00	61.088	269	52	30	327	22	00	61.080	EAST BANK OF CREEK
5	HC7/3	265	50	30	53.261	269	53	30	331	42	30	53.254	EAST BANK OF CREEK
6	HC7/4	276	51	00	67.439	269	48	30	342	43	00	67.430	EAST BANK OF CREEK
7	HC7/5	279	38	30	74.208	269	42	30	341	30	30	74.198	EAST BANK OF CREEK
8	HC7/6	281	40	00	77.681	269	32	00	347	32	00	77.670	EAST BANK OF CREEK
9	HC7/7	288	48	30	77.825	269	59	00	354	40	30	77.814	EAST BANK OF CREEK
10	HC7/8	293	07	30	71.735	269	54	00	358	59	30	71.725	EAST BANK OF CREEK
11	HC7/9	308	42	00	61.842	270	18	00	374	34	00	61.842	EAST BANK OF CREEK
12	HC7/10	333	19	30	57.479	270	19	00	039	11	30	57.479	EAST BANK OF CREEK
13	HC7/11	355	23	00	48.048	269	56	00	061	15	00	48.041	EAST BANK OF CREEK
14	HC7/12	018	04	00	48.159	270	31	00	083	56	00	48.159	EAST BANK OF CREEK
15	HC7/13	031	50	00	43.480	270	12	30	097	42	00	43.480	EAST BANK OF CREEK
16	HC7/14	049	26	00	44.003	270	33	00	115	18	00	44.003	EAST BANK OF CREEK
17	HC7/15	066	22	30	49.261	270	18	30	132	14	30	49.261	EAST BANK OF CREEK
18	HC7/16	073	01	00	58.118	270	27	30	138	53	00	58.118	EAST BANK OF CREEK
19	HC7/17	082	45	00	64.895	270	11	30	148	37	00	64.895	EAST BANK OF CREEK
20	HC7/18	088	56	00	69.952	270	21	30	154	48	00	69.952	EAST BANK OF CREEK
21	HC7/19	093	53	45	75.173	270	16	30	159	45	45	75.173	EAST BANK OF CREEK
22	HC7/20	097	50	30	84.511	270	14	00	163	42	30	84.511	EAST BANK OF CREEK
23	HC7/21	102	07	30	114.086	270	10	00	167	59	30	114.086	EAST BANK OF CREEK
24	HC7/22	102	35	30	123.892	270	03	00	168	27	30	123.892	EAST BANK OF CREEK
25	HC7/23	101	58	30	126.234	270	00	30	167	50	30	126.234	EAST BANK OF CREEK
26	HC7/24	098	45	00	128.671	270	02	30	164	37	00	128.671	EAST BANK OF CREEK
27	HC7/25	096	48	00	123.218	270	06	00	162	40	00	123.218	EAST BANK OF CREEK
28	HC7/26	096	49	15	111.121	270	07	00	162	41	15	111.121	EAST BANK OF CREEK
29	HC7/27	095	20	30	100.607	270	06	30	161	12	30	100.607	EAST BANK OF CREEK
30	HC7/28	090	17	00	100.776	270	02	00	156	09	00	100.776	EAST BANK OF CREEK
31	HC7/29	084	13	00	100.923	270	00	00	150	05	00	100.923	EAST BANK OF CREEK
32	HC7/30	081	39	30	103.474	270	00	30	147	31	30	103.474	EAST BANK OF CREEK
33	HC7/31	079	45	30	115.058	270	01	00	145	37	30	115.058	EAST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
35	HC7/32	080	29	00	125.361	270	00	00	146	21	00	125.361	EAST BANK OF CREEK
36	HC7/32	082	36	30	122.832	270	01	00	148	28	30	122.832	WEST BANK OF CREEK
37	HC7/33	083	43	45	107.645	270	02	30	149	35	45	107.645	EAST BANK OF CREEK
38	HC7/34	085	51	30	104.972	269	59	00	151	43	30	104.958	EAST BANK OF CREEK
39	HC7/35	092	43	00	104.870	270	01	00	158	35	00	104.870	EAST BANK OF CREEK
40	HC7/36	093	58	30	109.724	270	01	30	159	50	30	109.724	EAST BANK OF CREEK
41	HC7/37	091	45	30	115.074	270	08	00	157	37	30	115.074	EAST BANK OF CREEK
42	HC7/38	093	47	00	125.901	270	09	00	159	39	00	125.901	EAST BANK OF CREEK
43	HC7/39	098	01	00	134.108	270	09	30	163	53	00	134.108	EAST BANK OF CREEK
44	HC7/40	101	31	30	137.798	270	08	30	167	23	30	137.798	EAST BANK OF CREEK
45	HC7/41	104	48	00	129.574	270	11	00	170	40	00	129.574	EAST BANK OF CREEK
46	HC7/42	103	04	00	105.538	270	02	00	168	56	00	105.538	EAST BANK OF CREEK
47	HC7/43	097	05	30	72.744	270	07	30	162	57	30	72.744	EAST BANK OF CREEK
48	HC7/44	080	58	00	58.592	270	19	00	146	50	00	58.592	EAST BANK OF CREEK
49	HC7/45	073	07	30	49.662	270	18	30	138	59	30	49.662	EAST BANK OF CREEK
50	HC7/46	056	44	00	40.396	270	29	00	122	36	00	40.396	EAST BANK OF CREEK
51	HC7/47	017	19	30	43.887	270	21	00	083	11	30	43.887	EAST BANK OF CREEK
52	HC7/48	353	14	30	44.411	270	26	00	059	06	30	44.411	EAST BANK OF CREEK
53	HC7/49	333	12	30	53.233	270	00	00	039	04	30	53.233	EAST BANK OF CREEK
54	HC7/50	327	12	00	54.765	270	04	00	033	04	00	54.765	EAST BANK OF CREEK
55	HC7/51	310	06	00	57.718	269	07	30	015	58	00	57.710	EAST BANK OF CREEK
56	HC7/52	288	04	00	73.925	270	14	30	353	56	00	73.925	EAST BANK OF CREEK
57	HC7/53	283	38	00	72.251	270	38	30	349	30	00	72.251	EAST BANK OF CREEK
58	HC7/54	280	09	00	65.198	270	31	00	346	01	00	65.198	EAST BANK OF CREEK
59	HC7/55	275	27	30	57.640	270	18	30	341	19	30	57.640	EAST BANK OF CREEK
60	HC7/56	273	34	45	45.620	270	27	00	339	26	45	45.620	EAST BANK OF CREEK
61	HC7/57	260	10	00	46.143	271	06	30	326	02	00	46.135	EAST BANK OF CREEK
62	HC7/58	257	51	30	65.677	270	23	00	323	43	30	65.677	EAST BANK OF CREEK
63	HC7/59	256	41	15	86.878	270	12	00	322	33	15	86.878	EAST BANK OF CREEK
64	HC7/60	130	30	00	145.831	270	14	00	196	22	00	145.831	Western Edge of Alluvium
65	HC7/61	133	11	45	122.928	270	20	00	199	03	45	122.928	Western Edge of Alluvium
66	HC7/62	141	09	00	104.091	270	35	00	207	01	00	104.091	Western Edge of Alluvium

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
68	HC7/63	148	52	30	93.852	270	41	00	214	44	30	93.852	Western Edge of Alluvium
69	HC7/64	183	21	30	63.153	270	58	00	249	13	30	63.153	Western Edge of Alluvium
70	HC7/65	207	17	00	61.217	270	58	00	273	09	00	61.217	Western Edge of Alluvium
71	HC7/66	227	14	30	84.850	270	53	30	293	06	30	84.850	Western Edge of Alluvium
72	HC7/67	232	03	00	101.140	270	47	00	297	55	00	101.140	Western Edge of Alluvium
73	HC7/68	231	30	00	111.514	270	42	00	297	22	00	111.514	Western Edge of Alluvium
74	HC7/69	233	51	30	127.073	270	39	00	299	43	30	127.073	Western Edge of Alluvium
75	HC7/70	239	00	00	143.860	270	36	00	304	52	00	143.860	Western Edge of Alluvium
76	HC7/71	283	39	00	87.234	270	36	00	349	31	00	87.234	Eastern Edge of Alluvium
77	HC7/72	298	01	30	73.563	270	32	30	003	53	30	73.563	Eastern Edge of Alluvium
78	HC7/73	323	43	30	64.602	270	56	30	029	35	30	64.602	Eastern Edge of Alluvium
79	HC7/74	349	53	00	54.726	270	28	45	055	45	00	54.726	Eastern Edge of Alluvium
80	HC7/75	015	22	30	54.264	270	30	00	081	14	30	54.264	Eastern Edge of Alluvium
81	HC7/76	036	07	45	53.676	270	48	00	101	59	45	53.676	Eastern Edge of Alluvium
82	HC7/77	056	50	30	70.439	270	36	00	122	42	30	70.439	Eastern Edge of Alluvium
83	HC7/78	046	42	00	111.628	270	47	00	113	34	00	111.628	Eastern Edge of Alluvium
84	HC2/1	126	1	30	30.556	268	10	30	132	41	0	30.538	Cut Spoil Heap
85	HC2/2	104	20	45	12.865	264	54	0	111	0	15	12.796	Cut Spoil Heap
86	HC2/3	66	28	0	15.88	266	30	30	73	7	30	15.842	Cut Spoil Heap
87	HC2/4	013	10	15	21.807	267	12	00	019	49	45	21.778	Cut Spoil Heap
88	HC2/5	348	50	30	26.148	267	37	30	355	30	00	26.114	Cut Spoil Heap
89	HC2/6	021	18	00	20.276	267	05	30	027	57	30	20.249	Cut Spoil Heap 2
90	HC2/7	026	31	00	28.152	268	32	30	053	10	30	28.136	Cut Spoil Heap 2
91	HC2/8	040	55	00	32.478	269	15	00	047	34	30	32.474	Cut Spoil Heap 2
92	HC2/9	054	11	15	23.102	268	16	00	060	50	45	23.089	Cut Spoil Heap 2

EL 7902 & 8241 EXPENDITURE

Date	Cheque	Amount	Income	Balance
16/11/94		$65.68		
16/11/94			$1,000.00	$1,065.68
16/11/94	000706	$80.00		$920.00
18/11/94			$7,500.00	$8,420.00
18/11/94	000707	$100.00		$8,320.00
21/11/94	000708	$200.00		$8,120.00
23/11/94	000709	$40.00		$8,080.00
24/11/94	000710	$33.34		$8,046.66
24/11/94	000711	$100.00		$7,946.66
25/11/94	000712	$100.00		$7,846.66
25/11/94	000713	$500.00		$7,346.66
29/11/94	000714	$180.96		$7,165.70
29/11/94	000715	$122.79		$7,042.91
29/11/94	000716	$80.10		$6,962.81
29/11/94	000717	$200.00		$6,762.81
30/11/94	000718	$40.00		$6,722.81
30/11/94	000719	$197.00		$6,525.81
30/11/94	000720	$45.00		$6,480.81
30/11/94	000721	$294.85		$6,185.96
1/12/94		$9.20		$6,176.76
1/12/94		$5.10		$6,171.66
1/12/94		$7.35		$6,164.31
1/12/94	000722	$44.00		$6,120.31
1/12/94	000723	$280.00		$5,840.31
2/12/94	000724	$15.00		$5,825.31
2/12/94	000725	$530.00		$5,295.31
2/12/94	000726	$100.00		$5,195.31
5/12/94	000727	$800.00		$4,395.31
5/12/94	000728	$228.80		$4,166.51
5/12/94	000729	$73.60		$4,092.91
5/12/94	000730	$80.00		$4,012.91
5/12/94	000731	$500.00		$3,512.91
5/12/94	000732	$60.00		$3,452.91
6/12/94	000733	$44.72		$3,408.19
9/12/94	000734	$290.00		$3,118.19
9/12/94	000735	$45.00		$3,073.19
12/12/94	000736	$131.04		$2,942.15
12/12/94	000737	$1,000.00		$1,942.15
12/12/94	000738	$66.00		$1,876.15
12/12/94	000739	$110.20		$1,765.95
13/12/94	000740	$284.00		$1,481.95
13/12/94	000741	$280.00		$1,201.95
14/12/94	000742	$178.64		$1,023.31
19/12/94	000743	$148.01		$875.30
19/12/94	000744	$200.00		$675.30
19/12/94	000745	$140.00		$535.30
20/12/94	000746	$112.00		$423.30
28/12/94	000747	$200.00		$223.30
30/12/94		$13.10		$210.20

EL 7902 & 8241 EXPENDITURE

Date	Cheque	Amount	Income	Balance
3/12/95		$20.10		$190.10
7/1/95	000748	$150.00		$40.10
9/1/95	000749	$52.00		($11.90)
13/1/95			$3,000.00	$2,988.10
13/1/95	000750	$1,225.00		$1,763.10
13/1/95	000751	$191.30		$1,571.80
13/1/95	000752	$92.47		$1,479.33
13/1/95	000753	$252.25		$1,227.08
13/1/95	000754	$35.00		$1,192.08
13/1/95	000755	$107.50		$1,084.58
18/1/95	000756	$575.00		$509.58
18/1/95	000757	$105.00		$404.58
20/1/95	000758	$280.00		$124.58
30/1/95			$648.34	$772.92
31/1/95		$7.40		$765.52
1/2/95		$2.19		$763.33
1/2/95		$7.80		$755.53
6/2/95	000759	$304.50		$468.42
6/2/95	000760	$330.00		$138.42
7/2/95			$1,500.00	$1,638.42
8/2/95	000761	$130.15		$1,508.27
9/2/95	000762	$87.50		$1,420.77
9/2/95	000763	$143.05		$1,277.72
9/2/95	000764	$300.00		$977.72
24/2/95	000765	$100.00		$877.72
24/2/95	000766	$160.00		$717.72
25/2/95	000767	$52.90		$664.82
25/2/95	000768	$305.90		$358.92
25/2/95	000769	$101.05		$257.87
		$13,473.54	$13,648.34	$174.80

PINE CREEK EXPLORATION TENEMENT PARCEL
CHRONOLOGY OF EVENTS

Period from 10th. of November, 1994, to 1st of January, 1995.

10-Nov-94	Sanpage Option Expires
16-Nov-94	Niddrie transfers $1,000.00 to AEM's account for running expenses
17-Nov-94	Niddrie negotiates the formation of Target Exploration Pty. Ltd. with T. Roy
18-Nov-94	T. Roy transfers $7,500.00 to AEM's account
20-Nov-94	Cullen Minerals N.L. Extended Option Period Expires
21-Nov-94	Niddrie arranges for Dr. Orridge to inspect EL's 7902,8219 & 8241
22-Nov-94	Niddrie & Dr. Orridge to inspect EL's 7902,8219 & 8241
23-Nov-94	Niddrie & assistant commences preparation for Pine Creek Parcel field work
24-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
25-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
26-Nov-94	Preparation for Pine Creek Parcel field work, prep. & maint. of gear
27-Nov-94	Bruce Hyman arrives in Darwin
28-Nov-94	Hyman & Niddrie meet with senior Dept. of Mines & Energy officials
29-Nov-94	Hyman departs. Total cost of visit $2,112.00
30-Nov-94	Preparation for Pine Creek
01-Dec-94	Establishment of Pine Creek Base in van on powered site @ $70.00 per week
02-Dec-94	Bogged overnight. Return to Darwin, upgrade field computer & prepare programme
03-Dec-94	Purchase & repair of field & camp equipment, general preparation
04-Dec-94	Purchase & repair of field & camp equipment, general preparation
05-Dec-94	Purchase & repair of field & camp equipment, general preparation
06-Dec-94	Return to Pine Creek, commence road survey
07-Dec-94	Road Survey
08-Dec-94	Road Survey
09-Dec-94	Return to Darwin, Freezer & gear repair
10-Dec-94	Consultant & Niddrie upgrade computer survey programme
11-Dec-94	Niddrie prepares 1:1,000 map sheets for EL 8241
12-Dec-94	Return to Pine Creek, Commence Woolybutt extended survey
13-Dec-94	Woolybutt extended survey
14-Dec-94	Woolybutt extended survey
15-Dec-94	Highway Copper Prospect Survey
16-Dec-94	Completion of Road Survey
17-Dec-94	Completion of sundry survey & Return to Darwin. Wife & Daughter arrive in Darwin
18-Dec-94	Day off
19-Dec-94	Return to Pine Creek, commenced Southern Traverse
20-Dec-94	Southern Traverse
21-Dec-94	Survey west of Highway Copper Prospect
22-Dec-94	Survey south of Highway Copper Prospect
23-Dec-94	Survey of Camp Creek Structure
24-Dec-94	Return to Darwin
25-Dec-94	Christmas
26-Dec-94	General Office Duties, Talked to T. Roy re further funding
27-Dec-94	Sick with 'flu
28-Dec-94	Sick with 'flu
29-Dec-94	General Office Duties
30-Dec-94	Sick with 'flu, no work
31-Dec-94	Sick with 'flu, no work
01-Jan-95	Production of Progress Report

ROAD SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
001			12,815.174	12,390.822	Starting Bearing
1/2	317º 29' 30"	258.807	13,005.961	12,215.947	Centerline of Stuart H/way
1/3	318º 15' 00"	258.965	13,008.377	12,218.382	North Side of Highway
1/4	316º 45' 00"	258.525	13,003.476	12,213.685	South Side of Highway
1/5	041º 15' 00"	15.301	12,826.678	12,400.911	North Side of Highway
1/6	042º 20' 00"	8.443	12,821.415	12,396.508	South Side of Highway
1/7	131º 42' 00"	208.321	12,676.593	12,546.362	Centerline of Stuart H/way
1/8	130º 41' 00"	208.368	12,679.344	12,548.832	North Side of Highway
1/9	132º 33' 00"	207.995	12,674.521	12,544.049	South Side of Highway
1/10	169º 47' 00"	172.899	12,645.017	12,421.489	Edge of Track
1/11	171º 14' 00"	171.215	12,645.959	12,416.917	Edge of Track
1/12	167º 58' 00"	149.657	12,668.806	12,422.023	Edge of Track
1/13	169º 28' 00"	148.626	12,669.053	12,417.992	Edge of Track
1/14	166º 20' 30"	130.135	12,688.719	12,421.551	Edge of Track
1/15	167º 59' 00"	128.551	12,689.440	12,417.586	Edge of Track
1/16	163º 21' 00"	107.550	12,712.133	12,421.638	Edge of Track
1/17	165º 28' 00"	106.237	12,712.336	12,417.481	Edge of Track
1/18	159º 33' 00"	85.181	12,735.361	12,420.584	Edge of Track
1/19	162º 34' 00"	83.673	12,735.344	12,415.890	Edge of Track
1/20	152º 57' 00"	61.744	12,760.185	12,418.901	Edge of Track
1/21	156º 24' 30"	59.903	12,760.278	12,414.796	Edge of Track
1/22	114º 25' 30"	24.344	12,805.108	12,412.987	Track-H/way (C/L track)
002	168º 43' 30"	174.815	12,643.733	12,425.002	Back sight to 001
2/1	223º 12' 30"	14.902	12,632.871	12,380.619	Edge of Track
2/2	207º 15' 30"	13.259	12,631.946	12,384.749	Edge of Track
2/3	211º 54' 30"	34.779	12,614.209	12,372.439	Edge of Track
2/4	201º 54' 30"	36.274	12,610.078	12,377.287	Edge of Track
2/5	210º 31' 00"	79.093	12,575.596	12,350.659	Edge of Track
2/6	206º 25' 00"	79.850	12,572.221	12,355.297	Edge of Track
2/7	210º 07' 00"	134.744	12,527.179	12,323.213	Edge of Track
2/8	208º 01' 00"	134.947	12,524.600	12,327.434	Edge of Track
2/9	209º 53' 00"	179.886	12,487.765	12,301.197	Edge of Track
2/10	208º 16' 30"	180.097	12,485.125	12,305.510	Edge of Track
2/11	209º 48' 00"	275.837	12,404.372	12,253.738	Bank of Creek
2/12	209º 57' 30"	279.159	12,401.873	12,251.419	Bank of Creek
2/13	208º 44' 30"	280.595	12,397.708	12,255.895	Bank of Creek
2/14	208º 45' 00"	283.261	12,395.390	12,254.577	Bank of Creek
2/15	209º 37' 00"	366.154	12,325.417	12,209.871	Bank of Creek
2/16	208º 48' 30"	366.182	12,322.871	12,214.366	Bank of Creek
2/17	057º 40' 00"	34.820	12,662.356	12,420.243	Edge of Old Track
2/18	067º 26' 30"	36.984	12,657.921	12,424.976	Edge of Old Track
2/19	133º 19' 30"	13.495	12,634.473	12,400.639	Edge of Old Track
2/20	133º 09' 30"	7.242	12,638.779	12,396.105	Edge of Old Track
HC1	243º 35' 00"	111.755	12,594.014	12,290.737	Highway Copper HC1
HC2	186º 39' 30"	124.164	12,520.406	12,376.425	Highway Copper HC2
003	208º 41' 15"	435.815	12,261.414	12,215.796	Back sight to 002
3/1	212º 29' 45"	43.398	12,224.811	12,192.481	Edge of Track
3/1	205º 13' 15"	44.880	12,220.812	12,196.673	Edge of Track
3/3	209º 28' 45"	115.919	12,160.502	12,158.752	Edge of Track
3/4	206º 55' 45"	117.184	12,156.936	12,162.725	Edge of Track
3/5	208º 57' 15"	174.584	12,108.651	12,131.278	Centre of Creek
3/6	206º 57' 45"	177.345	12,103.346	12,135.387	Centre of Creek
004	208º 46' 15"	249.464	12,042.745	12,095.727	Back sight to 003

ROAD SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
4/1	374º 04' 15"	16.047	12,058.311	12,099.629	Edge of Track
4/2	035º 09' 45"	17.026	12,056.664	12,105.532	Edge of Track
4/3	213º 36' 15"	80.158	11,975.983	12,051.364	Edge of Track
4/4	208º 51' 45"	81.406	11,971.452	12,056.432	Edge of Track
005	210º 14' 15"	319.470	11,766.741	11,934.847	Back sight to 004
5/1	213º 39' 30"	59.057	11,717.584	11,902.115	Edge of Track
5/2	206º 03' 15"	59.248	11,713.514	11,908.824	Edge of Track
5/3	211º 03' 30"	125.019	11,659.644	11,870.348	Centre of Creek
5/4	208º 34' 30"	125.023	11,656.947	11;875.047	Centre of Creek
5/5	210º 39' 15"	188.320	11,604.737	11,838.831	Edge of Track
5/6	208º 59' 15"	188.374	11,601.965	11,843.557	Edge of Track
006	210º 11' 00"	319.470	11,490.584	11,774.227	Back sight to 005
6/1	028º 10' 15"	75.212	11,556.887	11,809.735	Edge of Track
6/2	032º 49' 00"	74.818	11,553.462	11,814.775	Edge of Track
6/3	222º 51' 30"	41.604	11,460.087	11,745.929	Edge of Track
6/4	215º 22' 15"	41.428	11,456.803	11,750.246	Edge of Track
6/5	216º 41' 15"	199.052	11,330.964	11,655.304	Centre of Creek
6/6	215º 27' 30"	200.576	11,327.208	11,657.871	Centre of Creek
6/7	216º 27' 00"	280.594	11,264.881	11,607.520	Edge of Track
6/8	215º 20' 00"	280.741	11,261.555	11,611.866	Edge of Track
007	215º 23' 00"	393.354	11,169.884	11,546.458	Back sight to 006
008	223º 03' 00"	69.003	11,119.460	11,499.354	Back sight to 007
8/1	223º 51' 00"	262.754	10,929.973	11,317.326	Edge of Track
8/2	225º 18' 00"	262.714	10,934.668	11,312.617	Edge of Track
8/3	224º 16' 00"	218.897	10,962.708	11,346.564	Edge of Track
8/4	225º 24' 15"	218.910	10,965.763	11,343.474	Edge of Track
8/5	224º 40' 30"	168.885	10,999.365	11,380.614	Edge of Track
8/6	225º 50' 00"	168.646	11,001.956	11,378.382	Edge of Track
8/7	224º 13' 00"	123.216	11,031.150	11,413.427	Edge of Track
8/8	226º 28' 30"	114.642	11,040.509	11,416.230	Edge of Track
8/9	222º 13' 30"	86.048	11,055.740	11,441.526	Edge of Track
8/10	225º 13' 00"	84.250	11,060.112	11,439.555	Creek
8/11	218º 49' 45"	51.506	11,079.336	11,467.060	Creek
8/12	225º 21' 00"	50.877	11,083.705	11,463.160	Edge of Track
8/13	206º 27' 00"	21.392	11,100.307	11,489.826	Edge of Track
8/14	220º 43' 00"	19.619	11,104.590	11,486.557	Edge of Track
8/15	058º 28' 00"	27.071	11,133.618	11,522.428	Edge of Track
8/16	045º 17' 30"	26.706	11,138.248	11,518.334	Edge of Track
009	181º 46' 30"	318.786	10,800.827	11,489.480	Back sight to 008

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	001					12,815.174	12,390.822	Starting Bearing
3	1/2	317	29	30	258.807	13,005.961	12,215.947	Centerline of Stuart H/way
4	1/3	318	15	00	258.965	13,008.377	12,218.382	North Side of Highway
5	1/4	316	45	00	258.525	13,003.476	12,213.685	South Side of Highway
6	1/5	041	15	00	15.301	12,826.678	12,400.911	North Side of Highway
7	1/6	042	20	00	8.443	12,821.415	12,396.508	South Side of Highway
8	1/7	131	42	00	208.321	12,676.593	12,546.362	Centerline of Stuart H/way
9	1/8	130	41	00	208.368	12,679.344	12,548.832	North Side of Highway
10	1/9	132	33	00	207.995	12,674.521	12,544.049	South Side of Highway
11	1/10	169	47	00	172.899	12,645.017	12,421.489	Edge of Track
12	1/11	171	14	00	171.215	12,645.959	12,416.917	Edge of Track
13	1/12	167	58	00	149.657	12,668.806	12,422.023	Edge of Track
14	1/13	169	28	00	148.626	12,669.053	12,417.992	Edge of Track
15	1/14	166	20	30	130.135	12,688.719	12,421.551	Edge of Track
16	1/15	167	59	00	128.551	12,689.440	12,417.586	Edge of Track
17	1/16	163	21	00	107.550	12,712.133	12,421.638	Edge of Track
18	1/17	165	28	00	106.237	12,712.336	12,417.481	Edge of Track
19	1/18	159	33	00	85.181	12,735.361	12,420.584	Edge of Track
20	1/19	162	34	00	83.673	12,735.344	12,415.890	Edge of Track
21	1/20	152	57	00	61.744	12,760.185	12,418.901	Edge of Track
22	1/21	156	24	30	59.903	12,760.278	12,414.796	Edge of Track
23	1/22	114	25	30	24.344	12,805.108	12,412.987	Track-H/way (C/L track)
24	002	168	43	30	174.815	12,643.733	12,425.002	Back sight to 001
25	2/1	223	12	30	14.902	12,632.871	12,380.619	Edge of Track
26	2/2	207	15	30	13.259	12,631.946	12,384.749	Edge of Track
27	2/3	211	54	30	34.779	12,614.209	12,372.439	Edge of Track
28	2/4	201	54	30	36.274	12,610.078	12,377.287	Edge of Track
29	2/5	210	31	00	79.093	12,575.596	12,350.659	Edge of Track
30	2/6	206	25	00	79.850	12,572.221	12,355.297	Edge of Track
31	2/7	210	07	00	134.744	12,527.179	12,323.213	Edge of Track
32	2/8	208	01	00	134.947	12,524.600	12,327.434	Edge of Track
33	2/9	209	53	00	179.886	12,487.765	12,301.197	Edge of Track

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
34	Station	True bearing			True dist	Northing	Easting	Description
35	2/10	208	16	30	180.097	12,485.125	12,305.510	Edge of Track
36	2/11	209	48	00	275.837	12,404.372	12,253.738	Bank of Creek
37	2/12	209	57	30	279.159	12,401.873	12,251.419	Bank of Creek
38	2/13	208	44	30	280.595	12,397.708	12,255.895	Bank of Creek
39	2/14	208	45	00	283.261	12,395.390	12,254.577	Bank of Creek
40	2/15	209	37	00	366.154	12,325.417	12,209.871	Bank of Creek
41	2/16	208	48	30	366.182	12,322.871	12,214.366	Bank of Creek
42	2/17	057	40	00	34.820	12,662.356	12,420.243	Edge of Old Track
43	2/18	067	26	30	36.984	12,657.921	12,424.976	Edge of Old Track
44	2/19	133	19	30	13.495	12,634.473	12,400.639	Edge of Old Track
45	2/20	133	09	30	7.242	12,638.779	12,396.105	Edge of Old Track
46	HC1	243	35	00	111.755	12,594.014	12,290.737	Highway Copper HC1
47	HC2	186	39	30	124.164	12,520.406	12,376.425	Highway Copper HC2
48	003	208	41	15	435.815	12,261.414	12,215.796	Back sight to 002
49	3/1	212	29	45	43.398	12,224.811	12,192.481	Edge of Track
50	3/1	205	13	15	44.880	12,220.812	12,196.673	Edge of Track
51	3/3	209	28	45	115.919	12,160.502	12,158.752	Edge of Track
52	3/4	206	55	45	117.184	12,156.936	12,162.725	Edge of Track
53	3/5	208	57	15	174.584	12,108.651	12,131.278	Centre of Creek
54	3/6	206	57	45	177.345	12,103.346	12,135.387	Centre of Creek
55	004	208	046	015	249.464	12,042.745	12,095.727	Back sight to 003
56	4/1	374	04	15	16.047	12,058.311	12,099.629	Edge of Track
57	4/2	035	09	45	17.026	12,056.664	12,105.532	Edge of Track
58	4/3	213	36	15	80.158	11,975.983	12,051.364	Edge of Track
59	4/4	208	51	45	81.406	11,971.452	12,056.432	Edge of Track
60	005	210	14	15	319.470	11,766.741	11,934.847	Back sight to 004
61	5/1	213	39	30	59.057	11,717.584	11,902.115	Edge of Track
62	5/2	206	03	15	59.248	11,713.514	11,908.824	Edge of Track
63	5/3	211	03	30	125.019	11,659.644	11,870.348	Centre of Creek
64	5/4	208	34	30	125.023	11,656.947	11,875.047	Centre of Creek
65	5/5	210	39	15	188.320	11,604.737	11,838.831	Edge of Track
66	5/6	208	59	15	188.374	11,601.965	11,843.557	Edge of Track

ROAD TRAVERSE 1

	A	B	C	D	E	F	G	H
67	Station	True bearing			True dist	Northing	Easting	Description
68	006	210	11	00	319.470	11,490.584	11,774.227	Back sight to 005
69	6/1	028	10	15	75.212	11,556.887	11,809.735	Edge of Track
70	6/2	032	49	00	74.818	11,553.462	11,814.775	Edge of Track
71	6/3	222	51	30	41.604	11,460.087	11,745.929	Edge of Track
72	6/4	215	22	15	41.428	11,456.803	11,750.246	Edge of Track
73	6/5	216	41	15	199.052	11,330.964	11,655.304	Centre of Creek
74	6/6	215	27	30	200.576	11,327.208	11,657.871	Centre of Creek
75	6/7	216	27	00	280.594	11,264.881	11,607.520	Edge of Track
76	6/8	215	20	00	280.741	11,261.555	11,611.866	Edge of Track
77	007	215	23	00	393.354	11,169.884	11,546.458	Back sight to 006
78	008	223	03	00	69.003	11,119.460	11,499.354	Back sight to 007
79	8/1	223	51	00	262.754	10,929.973	11,317.326	Edge of Track
80	8/2	225	18	00	262.714	10,934.668	11,312.617	Edge of Track
81	8/3	224	16	00	218.897	10,962.708	11,346.564	Edge of Track
82	8/4	225	24	15	218.910	10,965.763	11,343.474	Edge of Track
83	8/5	224	40	30	168.885	10,999.365	11,380.614	Edge of Track
84	8/6	225	50	00	168.646	11,001.956	11,378.382	Edge of Track
85	8/7	224	13	00	123.216	11,031.150	11,413.427	Edge of Track
86	8/8	226	28	30	114.642	11,040.509	11,416.230	Edge of Track
87	8/9	222	13	30	86.048	11,055.740	11,441.526	Edge of Track
88	8/10	225	13	00	84.250	11,060.112	11,439.555	Creek
89	8/11	218	49	45	51.506	11,079.336	11,467.060	Creek
90	8/12	225	21	00	50.877	11,083.705	11,463.160	Edge of Track
91	8/13	206	27	00	21.392	11,100.307	11,489.826	Edge of Track
92	8/14	220	43	00	19.619	11,104.590	11,486.557	Edge of Track
93	8/15	058	28	00	27.071	11,133.618	11,522.428	Edge of Track
94	8/16	045	17	30	26.706	11,138.248	11,518.334	Edge of Track
95	009	181	46	30	318.786	10,800.827	11,489.480	Back sight to 008

ROAD TRAVERSE 1

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
2	001	008	30	00					008	30	00		Starting Bearing
3	1/1	308	59	30	258.807	270	24	00	317	29	30	258.807	Centerline of Stuart H/way
4	1/2	309	45	00	258.965	270	22	30	318	15	00	258.965	North Side of Highway
5	1/3	308	15	00	258.525	270	23	00	316	45	00	258.525	South Side of Highway
6	1/4	032	45	00	15.303	269	32	00	041	15	00	15.301	North Side of Highway
7	1/5	035	50	00	8.444	269	14	00	042	20	00	8.443	South Side of Highway
8	1/6	123	12	00	208.321	270	05	30	131	42	00	208.321	Centerline of Stuart H/way
9	1/7	122	11	00	208.368	270	04	30	130	41	00	208.368	North Side of Highway
10	1/8	124	03	00	207.995	270	04	30	132	33	00	207.995	South Side of Highway
11	1/9	161	17	00	172.899	270	01	00	169	47	00	172.899	Edge of Track
12	1/10	162	44	00	171.215	270	01	00	171	14	00	171.215	Edge of Track
13	1/11	159	28	00	149.657	270	05	00	167	58	00	149.657	Edge of Track
14	1/12	160	58	00	148.626	270	05	00	169	28	00	148.626	Edge of Track
15	1/13	157	50	30	130.135	270	07	00	166	20	30	130.135	Edge of Track
16	1/14	159	29	00	128.551	270	07	00	167	59	00	128.551	Edge of Track
17	1/15	154	51	00	107.550	270	04	00	163	21	00	107.550	Edge of Track
18	1/16	156	58	00	106.237	270	06	00	165	28	00	106.237	Edge of Track
19	1/17	151	03	00	85.193	269	57	30	159	33	00	85.181	Edge of Track
20	1/18	154	04	00	83.673	270	00	00	162	34	00	83.673	Edge of Track
21	1/19	144	27	00	61.752	269	50	00	152	57	00	61.744	Edge of Track
22	1/20	147	54	30	59.911	269	51	00	156	24	30	59.903	Edge of Track
23	1/21	105	55	30	24.347	269	37	30	114	25	30	24.344	Track - H/way (C/L track)
24	002	160	13	30	174.815	270	04	00	168	43	30	174.815	Back sight to 001
25	2/1	234	29	00	14.922	267	51	00	223	12	30	14.902	Edge of Track
26	2/2	218	32	00	13.277	267	41	00	207	15	30	13.259	Edge of Track
27	2/3	223	11	00	34.799	268	05	30	211	54	30	34.779	Edge of Track
28	2/4	213	11	00	36.295	268	04	30	201	54	30	36.274	Edge of Track
29	2/5	221	47	30	79.139	268	25	00	210	31	00	79.093	Edge of Track
30	2/6	217	41	30	79.896	268	23	00	206	25	00	79.850	Edge of Track
31	2/7	221	23	30	134.821	268	24	30	210	07	00	134.744	Edge of Track
32	2/8	219	17	30	135.025	268	28	00	208	01	00	134.947	Edge of Track
33	2/9	221	09	30	179.990	268	24	00	209	53	00	179.886	Edge of Track

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
35	2/10	219	33	00	180.201	268	27	00	208	16	30	180.097	Edge of Track
36	2/11	221	04	30	275.995	268	24	30	209	48	00	275.837	Bank of Creek
37	2/12	221	14	00	279.319	268	24	30	209	57	30	279.159	Bank of Creek
38	2/13	220	01	00	280.756	268	24	30	208	44	30	280.595	Bank of Creek
39	2/14	220	01	30	283.424	268	24	30	208	45	00	283.261	Bank of Creek
40	2/15	220	53	30	366.364	268	54	30	209	37	00	366.154	Bank of Creek
41	2/16	220	05	00	366.394	268	54	00	208	48	30	366.182	Bank of Creek
42	2/17	068	56	30	34.820	270	02	00	057	40	00	34.820	Edge of Old Track
43	2/18	078	43	00	36.989	269	53	30	067	26	30	36.984	Edge of Old Track
44	2/19	144	36	00	13.503	268	35	00	133	19	30	13.495	Edge of Old Track
45	2/20	144	26	00	7.252	267	18	00	133	09	30	7.242	Edge of Old Track
46	HC1	254	51	30	111.770	269	22	00	243	35	00	111.755	Highway Copper HC1
47	HC2	197	56	00	124.181	269	49	30	186	39	30	124.164	Highway Copper HC2
48	003	219	57	45	435.874	269	51	30	208	41	15	435.815	Back sight to 002
49	3/1	183	48	30	43.404	269	23	00	212	29	45	43.398	Edge of Track
50	3/2	176	32	00	44.886	269	23	00	205	13	15	44.880	Edge of Track
51	3/3	180	47	30	115.935	269	30	00	209	28	45	115.919	Edge of Track
52	3/4	178	14	30	117.200	269	27	00	206	55	45	117.184	Edge of Track
53	3/5	180	16	00	174.608	269	11	00	208	57	15	174.584	Centre of Creek
54	3/6	178	16	30	177.369	269	13	00	206	57	45	177.345	Centre of Creek
55	004	180	005	000	249	269	051	030	208	046	015	249	Back sight to 003
56	4/1	345	18	00	16.068	267	23	30	374	04	15	16.047	Edge of Track
57	4/2	006	23	30	17.048	267	11	30	035	09	45	17.026	Edge of Track
58	4/3	184	50	00	80.158	270	41	30	213	36	15	80.158	Edge of Track
59	4/4	180	05	30	81.406	270	34	30	208	51	45	81.406	Edge of Track
60	005	181	28	00	319.470	270	33	00	210	14	15	319.470	Back sight to 004
61	5/1	183	25	15	59.091	268	35	00	213	39	30	59.057	Edge of Track
62	5/2	175	49	00	59.282	268	21	00	206	03	15	59.248	Edge of Track
63	5/3	180	49	15	125.091	268	40	30	211	03	30	125.019	Centre of Creek
64	5/4	178	20	15	125.095	268	35	00	208	34	30	125.023	Centre of Creek
65	5/5	180	25	00	188.346	269	59	00	210	39	15	188.320	Edge of Track
66	006	178	45	00	188.374	270	02	00	208	59	15	188.374	Edge of Track

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	Station	Observed Bearing			Distance		Slope		True Bearing			True dist	Description
68	6/6	179	56	45	319.470	270	29	30	210	11	00	319.470	Back sight to 005
69	6/1	357	59	15	75.222	269	28	00	028	10	15	75.212	Edge of Track
70	6/2	002	38	00	74.828	269	24	00	032	49	00	74.818	Edge of Track
71	6/3	192	40	30	41.610	269	02	30	222	51	30	41.604	Edge of Track
72	6/4	185	11	15	41.452	268	42	00	215	22	15	41.428	Edge of Track
73	6/5	186	30	15	199.167	268	42	00	216	41	15	199.052	Centre of Creek
74	6/6	185	16	30	200.691	268	39	30	215	27	30	200.576	Centre of Creek
75	6/7	186	16	00	280.633	269	25	00	216	27	00	280.594	Edge of Track
76	6/8	185	09	00	280.780	269	24	00	215	20	00	280.741	Edge of Track
77	007	185	12	00	393.407	269	36	30	215	23	00	393.354	Back sight to 006
78	008	187	40	00	69.043	268	56	00	223	03	00	69.003	Back sight to 007
79	8/1	216	11	00	262.754	270	16	30	223	51	00	262.754	Edge of Track
80	8/2	217	28	00	262.714	270	17	00	225	18	00	262.714	Edge of Track
81	8/3	216	26	00	218.897	270	07	30	224	16	00	218.897	Edge of Track
82	8/4	217	44	15	218.910	270	08	30	225	24	15	218.910	Edge of Track
83	8/5	216	40	30	168.908	269	26	00	224	40	30	168.885	Edge of Track
84	8/6	218	10	00	168.669	269	27	00	225	50	00	168.646	Edge of Track
85	8/7	216	33	00	123.233	269	11	00	224	13	00	123.216	Edge of Track
86	8/8	218	48	30	114.708	268	01	30	226	28	30	114.642	Edge of Track
87	8/9	214	33	30	86.253	266	41	00	222	13	30	86.048	Edge of Track
88	8/10	217	33	00	84.450	266	48	30	225	13	00	84.250	Creek
89	8/11	211	09	45	51.628	266	11	30	218	49	45	51.506	Creek
90	8/12	217	41	00	50.998	266	05	00	225	21	00	50.877	Edge of Track
91	8/13	198	47	00	21.472	265	45	30	206	27	00	21.392	Edge of Track
92	8/14	213	03	00	19.692	265	45	30	220	43	00	19.619	Edge of Track
93	8/15	050	48	00	27.071	270	41	00	058	28	00	27.071	Edge of Track
94	8/16	037	37	30	26.706	270	42	00	045	17	30	26.706	Edge of Track
95	009	174	06	30	318.786	270	21	00	181	46	30	318.786	Back sight to 008

CAMP CREEK SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
004	208º 46' 15"		12,042.666	12,095.684	004
004/A	274º 49' 15"	95.483	12,050.690	12,000.538	004 -004/A
004/B	104º 50' 45"	109.866	12,014.516	12,201.882	004 -004/B
4/5	288º 55' 00"	78.024	12,065.369	12,021.036	CAMP CREEK STRUCTURE
4/6	291º 59' 15"	55.109	12,063.299	12,044.583	CAMP CREEK STRUCTURE
4/7	297º 06' 15"	44.031	12,062.727	12,056.488	CAMP CREEK STRUCTURE
4/8	010º 23' 15"	14.726	12,057.151	12,098.339	CAMP CREEK STRUCTURE
4/9	038º 53' 15"	17.526	12,056.308	12,106.686	CAMP CREEK STRUCTURE
4/10	059º 01' 15"	23.294	12,054.656	12,115.654	CAMP CREEK STRUCTURE
4/11	027º 48' 15"	135.481	12,162.505	12,158.879	EDGE OF ROAD
4/12	030º 41' 30"	126.379	12,151.342	12,160.189	EDGE OF ROAD
4/13	027º 35' 15"	106.789	12,137.313	12,145.138	EDGE OF ROAD
4/14	031º 31' 15"	90.693	12,119.977	12,143.098	EDGE OF ROAD
4/15	028º 17' 45"	86.439	12,118.776	12,136.658	EDGE OF ROAD
4/16	032º 55' 00"	47.939	12,082.909	12,121.735	EDGE OF ROAD
4/17	026º 51' 15"	49.225	12,086.583	12,117.920	EDGE OF ROAD
4/18	036º 36' 15"	22.747	12,060.926	12,109.247	EDGE OF ROAD
4/19	017º 33' 15"	23.116	12,064.706	12,102.656	EDGE OF ROAD
4/20	192º 30' 15"	10.747	12,032.174	12,093.357	EDGE OF ROAD
4/21	216º 14' 00"	54.438	11,998.755	12,063.507	EDGE OF ROAD
4/22	207º 36' 15"	54.344	11,994.508	12,070.503	EDGE OF ROAD
4/23	213º 28' 15"	90.917	11,966.826	12,045.542	EDGE OF ROAD
4/24	155º 58' 15"	79.880	11,969.709	12,128.211	EDGE OF ALLUVIUM
4/25	154º 12' 15"	73.889	11,976.140	12,127.838	EDGE OF ALLUVIUM
4/26	153º 09' 15"	59.877	11,989.242	12,122.724	EDGE OF ALLUVIUM
4/27	153º 56' 15"	46.340	12,001.038	12,116.043	EDGE OF ALLUVIUM
4/28	143º 52' 00"	29.631	12,018.735	12,113.156	EDGE OF ALLUVIUM
4/29	127º 22' 45"	26.438	12,026.616	12,116.692	EDGE OF ALLUVIUM
4/30	102º 23' 15"	27.084	12,036.856	12,122.137	EDGE OF ALLUVIUM
4/31	049º 57' 15"	21.423	12,056.449	12,112.084	EDGE OF ALLUVIUM
004/1	153º 17' 45"	52.253	11,995.986	12,119.165	004/1
004/2	156º 57' 15"	50.127	11,996.539	12,115.307	004/2
004/B	104º 50' 45"		12,014.516	12,201.882	004/B
4/B/1	085º 54' 30"	95.141	12,021.305	12,296.781	004/C
4/B/2	210º 52' 00"	94.861	11,933.091	12,153.214	004/D
4/B/3	006º 08' 45"	22.225	12,036.613	12,204.261	CAMP CREEK STRUCTURE
4/B/4	020º 50' 45"	23.179	12,036.178	12,210.130	CAMP CREEK STRUCTURE
4/B/5	041º 41' 45"	27.841	12,035.305	12,220.401	CAMP CREEK STRUCTURE
4/B/6	056º 34' 00"	34.216	12,033.368	12,230.436	CAMP CREEK STRUCTURE
4/B/7	068º 34' 50"	46.793	12,031.605	12,245.443	CAMP CREEK STRUCTURE
4/B/8	071º 30' 15"	55.099	12,031.995	12,254.135	CAMP CREEK STRUCTURE
4/B/9	073º 41' 15"	66.708	12,033.253	12,265.904	CAMP CREEK STRUCTURE
4/B/10	039º 00' 15"	87.975	12,082.881	12,257.251	EAST BANK OF CREEK
4/B/11	037º 56' 15"	92.049	12,087.113	12,258.474	EAST BANK OF CREEK
4/B/12	037º 50' 15"	120.081	12,109.350	12,275.543	EAST BANK OF CREEK
4/B/13	031º 45' 45"	129.014	12,124.209	12,269.795	EAST BANK OF CREEK
4/B/14	027º 42' 45"	124.310	12,124.567	12,259.690	EAST BANK OF CREEK
4/B/15	024º 27' 45"	114.475	12,118.715	12,249.286	EAST BANK OF CREEK
4/B/16	021º 25' 45"	116.540	12,123.000	12,244.460	EAST BANK OF CREEK
4/B/17	017º 25' 45"	117.286	12,126.417	12,237.012	EAST BANK OF CREEK
4/B/18	013º 05' 90"	116.428	12,127.910	12,228.287	EAST BANK OF CREEK
4/B/19	009º 46' 45"	112.467	12,125.349	12,220.985	EAST BANK OF CREEK
4/B/20	001º 03' 45"	100.837	12,115.336	12,203.752	EAST BANK OF CREEK

CAMP CREEK SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
4/B/21	355º 16' 45"	101.533	12,115.705	12,193.526	EAST BANK OF CREEK
4/B/22	000º 01' 75"	113.786	12,128.302	12,201.956	EAST BANK OF CREEK
4/B/23	359º 46' 45"	122.559	12,137.074	12,201.410	EAST BANK OF CREEK
4/B/24	358º 30' 00"	124.497	12,138.970	12,198.623	EAST BANK OF CREEK
4/B/25	351º 45' 15"	124.701	12,137.928	12,183.997	EAST BANK OF CREEK
4/B/26	348º 15' 45"	123.485	12,135.419	12,176.762	EAST BANK OF CREEK
4/B/27	346º 29' 15"	113.530	12,124.903	12,175.355	EAST BANK OF CREEK
4/B/28	342º 02' 45"	113.811	12,122.785	12,166.799	EAST BANK OF CREEK
4/B/29	345º 07' 45"	101.368	12,112.489	12,175.867	EAST BANK OF CREEK
4/B/30	347º 26' 45"	100.770	12,112.877	12,179.978	EAST BANK OF CREEK
4/B/31	346º 50' 45"	90.534	12,102.675	12,181.279	EAST BANK OF CREEK
4/B/32	347º 36' 45"	77.572	12,090.282	12,185.241	EAST BANK OF CREEK
4/B/33	335º 27' 00"	79.162	12,086.522	12,168.991	EAST BANK OF CREEK
4/B/34	342º 11' 15"	50.107	12,062.221	12,186.554	EAST BANK OF CREEK
4/B/35	342º 18' 45"	39.215	12,051.877	12,189.967	EAST BANK OF CREEK
4/B/36	333º 44' 45"	35.820	12,046.641	12,186.037	EAST BANK OF CREEK
4/B/37	334º 24' 75"	28.751	12,040.449	12,189.468	EAST BANK OF CREEK
4/B/38	354º 23' 45"	38.622	12,052.953	12,198.110	EAST BANK OF CREEK
4/B/39	001º 46' 15"	40.381	12,054.877	12,203.130	EAST BANK OF CREEK
4/B/40	012º 04' 45"	34.620	12,048.370	12,209.127	EAST BANK OF CREEK
4/B/41	016º 12' 45"	31.388	12,044.656	12,210.645	EAST BANK OF CREEK
4/B/42	050º 52' 45"	31.906	12,034.647	12,226.635	EAST BANK OF CREEK
4/B/43	053º 23' 45"	44.373	12,040.975	12,237.503	EAST BANK OF CREEK
4/B/44	053º 25' 25"	33.244	12,034.326	12,228.579	EAST BANK OF CREEK
4/B/45	073º 16' 15"	28.400	12,022.691	12,229.080	EAST BANK OF CREEK
4/B/46	083º 56' 45"	19.200	12,016.541	12,220.975	EAST BANK OF CREEK
4/B/47	112º 38' 15"	15.783	12,008.441	12,216.449	EAST BANK OF CREEK
4/B/48	137º 38' 15"	18.451	12,000.883	12,214.314	EAST BANK OF CREEK
4/B/49	144º 52' 15"	23.329	11,995.436	12,215.306	EAST BANK OF CREEK
4/B/50	178º 10' 45"	32.392	11,982.140	12,202.911	EAST BANK OF CREEK
4/B/51	185º 21' 45"	39.537	11,975.153	12,198.187	EAST BANK OF CREEK
4/B/52	194º 01' 45"	47.146	11,968.777	12,190.453	EAST BANK OF CREEK
4/B/53	217º 39' 45"	74.154	11,955.814	12,156.573	EAST BANK OF CREEK
4/B/54	222º 30' 45"	93.017	11,945.950	12,139.026	EAST BANK OF CREEK
4/B/55	226º 57' 45"	97.760	11,947.797	12,130.429	EAST BANK OF CREEK
4/B/56	296º 45' 45"	127.578	12,071.964	12,087.970	WEST BANK OF CREEK
4/B/57	031º 16' 45"	132.417	12,127.686	12,270.634	WEST BANK OF CREEK
4/B/58	025º 09' 00"	126.064	12,128.629	12,255.458	WEST BANK OF CREEK
4/B/59	024º 09' 45"	116.445	12,120.759	12,249.546	WEST BANK OF CREEK
4/B/60	013º 32' 15"	119.420	12,130.618	12,229.836	WEST BANK OF CREEK
4/B/61	356º 28' 45"	104.415	12,118.734	12,195.470	WEST BANK OF CREEK
4/B/62	001º 51' 45"	-0.125	12,014.392	12,201.878	WEST BANK OF CREEK
4/B/63	354º 18' 15"	126.959	12,140.848	12,189.282	WEST BANK OF CREEK
4/B/64	344º 17' 15"	119.454	12,129.506	12,169.533	WEST BANK OF CREEK
4/B/65	341º 50' 45"	102.695	12,112.099	12,169.885	WEST BANK OF CREEK
4/B/66	344º 27' 45"	86.743	12,098.089	12,178.646	CAMP CREEK
4/B/67	333º 24' 45"	81.791	12,087.658	12,165.275	CAMP CREEK
4/B/68	327º 09' 45"	92.392	12,092.145	12,151.782	CAMP CREEK
4/B/69	326º 02' 15"	90.412	12,089.504	12,151.374	CAMP CREEK
4/B/70	332º 57' 45"	80.34	12,086.076	12,165.362	WEST BANK OF CREEK
4/B/71	333º 16' 45"	48.717	12,058.030	12,179.977	WEST BANK OF CREEK
4/B/72	335º 36' 15"	40.644	12,035.731	12,188.339	WEST BANK OF CREEK
4/B/73	327º 05' 15"	38.361	12,046.720	12,181.038	WEST BANK OF CREEK

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	001	8	30	00		12,815.174	12,390.822	Starting Bearing
3	1/1	317	29	30	258.801	13,005.956	12,215.951	Centerline of Stuart H/way
4	1/2	318	15	00	258.959	13,008.373	12,218.386	North Side of Highway
5	1/3	316	45	00	258.519	13,003.472	12,213.689	South Side of Highway
6	1/4	41	15	00	15.302	12,826.679	12,400.912	North Side of Highway
7	1/5	42	20	00	8.443	12,821.416	12,396.508	South Side of Highway
8	1/6	131	42	00	208.321	12,676.593	12,546.362	Centerline of Stuart H/way
9	1/7	130	41	00	208.368	12,679.344	12,548.832	North Side of Highway
10	1/8	132	33	00	207.995	12,674.521	12,544.049	South Side of Highway
11	1/9	169	47	00	172.899	12,645.016	12,421.489	Track
12	1/10	171	14	00	171.215	12,645.959	12,416.917	Track
13	1/11	167	58	00	149.657	12,668.806	12,422.023	Track
14	1/12	169	28	00	148.626	12,669.053	12,417.992	Track
15	1/13	166	20	30	130.135	12,688.719	12,421.551	Track
16	1/14	167	59	00	128.551	12,689.440	12,417.586	Track
17	1/15	163	21	00	107.550	12,712.133	12,421.638	Track
18	1/16	165	28	00	106.237	12,712.337	12,417.481	Track
19	1/17	159	33	00	85.193	12,735.350	12,420.588	Track
20	1/18	162	34	00	83.673	12,735.344	12,415.890	Track
21	1/19	152	57	00	61.752	12,760.177	12,418.905	Track
22	1/20	156	24	30	59.911	12,760.270	12,414.799	Track
23	1/21	114	25	30	24.346	12,805.107	12,412.990	Track-H/way (C/L track)
24								
25	002	168	43	30	174.815	12,643.733	12,425.002	Back sight to 001
26	2/1	223	12	30	14.911	12,632.865	12,414.792	Edge of Track
27	2/2	207	15	30	13.266	12,631.940	12,418.926	Edge of Track
28	2/3	211	54	30	34.780	12,614.209	12,406.618	Edge of Track
29	2/4	201	54	30	36.275	12,610.078	12,411.467	Edge of Track
30	2/5	210	31	00	79.109	12,575.582	12,384.831	Edge of Track
31	2/6	206	25	00	79.864	12,572.208	12,389.470	Edge of Track
32	2/7	210	07	00	134.769	12,527.157	12,357.379	Edge of Track
33	2/8	208	01	00	134.977	12,524.574	12,361.599	Edge of Track

CAMP CK MAPPING 1

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	004	208	46	15		12,042.666	12,095.684	004
3	004/A	274	49	15	95.483	12,050.690	12,000.538	004 -004/A
4	004/B	104	50	45	109.866	12,014.516	12,201.882	004 -004/B
5	4/5	286	55	00	78.024	12,065.369	12,021.036	CAMP CREEK STRUCTURE
6	4/6	291	59	15	55.109	12,063.299	12,044.583	CAMP CREEK STRUCTURE
7	4/7	297	06	15	44.031	12,062.727	12,056.488	CAMP CREEK STRUCTURE
8	4/8	010	23	15	14.726	12,057.151	12,098.339	CAMP CREEK STRUCTURE
9	4/9	038	53	15	17.526	12,056.308	12,106.686	CAMP CREEK STRUCTURE
10	4/10	059	01	15	23.294	12,054.656	12,115.654	CAMP CREEK STRUCTURE
11	4/11	027	48	15	135.481	12,162.505	12,158.879	EDGE OF ROAD
12	4/12	030	41	30	126.379	12,151.342	12,160.189	EDGE OF ROAD
13	4/13	027	35	15	106.789	12,137.313	12,145.138	EDGE OF ROAD
14	4/14	031	31	15	90.693	12,119.977	12,143.098	EDGE OF ROAD
15	4/15	028	17	45	86.439	12,118.776	12,136.658	EDGE OF ROAD
16	4/16	032	55	00	47.939	12,082.909	12,121.735	EDGE OF ROAD
17	4/17	026	51	15	49.225	12,086.583	12,117.920	EDGE OF ROAD
18	4/18	036	36	15	22.747	12,060.926	12,109.247	EDGE OF ROAD
19	4/19	017	33	15	23.116	12,064.706	12,102.656	EDGE OF ROAD
20	4/20	192	30	15	10.747	12,032.174	12,093.357	EDGE OF ROAD
21	4/21	216	14	00	54.438	11,998.755	12,063.507	EDGE OF ROAD
22	4/22	207	36	15	54.344	11,994.508	12,070.503	EDGE OF ROAD
23	4/23	213	28	15	90.917	11,966.826	12,045.542	EDGE OF ROAD
24	4/24	155	58	15	79.880	11,969.709	12,128.211	EDGE OF ALLUVIUM
25	4/25	154	12	15	73.889	11,976.140	12,127.838	EDGE OF ALLUVIUM
26	4/26	153	09	15	59.877	11,989.242	12,122.724	EDGE OF ALLUVIUM
27	4/27	153	56	15	46.340	12,001.038	12,116.043	EDGE OF ALLUVIUM
28	4/28	143	52	00	29.631	12,018.735	12,113.156	EDGE OF ALLUVIUM
29	4/29	127	22	45	26.438	12,026.616	12,116.692	EDGE OF ALLUVIUM
30	4/30	102	23	15	27.084	12,036.856	12,122.137	EDGE OF ALLUVIUM
31	4/31	049	57	15	21.423	12,056.449	12,112.084	EDGE OF ALLUVIUM
32	004/1	153	17	45	52.253	11,995.986	12,119.165	004/1
33	004/2	156	57	15	50.127	11,996.539	12,115.307	004/2

	A	B	C	D	E	F	G	H
34	Station	True bearing			True dist	Northing	Easting	Description
35	004/B	104	50	45		12,014.516	12,201.882	004/B
36	4/B/1	085	54	30	95.141	12,021.305	12,296.781	004/C
37	4/B/2	210	52	00	94.861	11,933.091	12,153.214	004/D
38	4/B/3	006	08	45	22.225	12,036.613	12,204.261	CAMP CREEK STRUCTURE
39	4/B/4	020	50	45	23.179	12,036.178	12,210.130	CAMP CREEK STRUCTURE
40	4/B/5	041	41	45	27.841	12,035.305	12,220.401	CAMP CREEK STRUCTURE
41	4/B/6	056	34	00	34.216	12,033.368	12,230.436	CAMP CREEK STRUCTURE
42	4/B/7	068	34	50	46.793	12,031.605	12,245.443	CAMP CREEK STRUCTURE
43	4/B/8	071	30	15	55.099	12,031.995	12,254.135	CAMP CREEK STRUCTURE
44	4/B/9	073	41	15	66.708	12,033.253	12,265.904	CAMP CREEK STRUCTURE
45	4/B/10	039	00	15	87.975	12,082.881	12,257.251	EAST BANK OF CREEK
46	4/B/11	037	56	15	92.049	12,087.113	12,258.474	EAST BANK OF CREEK
47	4/B/12	037	50	15	120.081	12,109.350	12,275.543	EAST BANK OF CREEK
48	4/B/13	031	45	45	129.014	12,124.209	12,269.795	EAST BANK OF CREEK
49	4/B/14	027	42	45	124.310	12,124.567	12,259.690	EAST BANK OF CREEK
50	4/B/15	024	27	45	114.475	12,118.715	12,249.286	EAST BANK OF CREEK
51	4/B/16	021	25	45	116.540	12,123.000	12,244.460	EAST BANK OF CREEK
52	4/B/17	017	25	45	117.286	12,126.417	12,237.012	EAST BANK OF CREEK
53	4/B/18	013	05	90	116.428	12,127.910	12,228.287	EAST BANK OF CREEK
54	4/B/19	009	46	45	112.467	12,125.349	12,220.985	EAST BANK OF CREEK
55	4/B/20	001	03	45	100.837	12,115.336	12,203.752	EAST BANK OF CREEK
56	4/B/21	355	16	45	101.533	12,115.705	12,193.526	EAST BANK OF CREEK
57	4/B/22	000	01	75	113.786	12,128.302	12,201.956	EAST BANK OF CREEK
58	4/B/23	359	46	45	122.559	12,137.074	12,201.410	EAST BANK OF CREEK
59	4/B/24	358	30	00	124.497	12,138.970	12,198.623	EAST BANK OF CREEK
60	4/B/25	351	45	15	124.701	12,137.928	12,183.997	EAST BANK OF CREEK
61	4/B/26	348	15	45	123.485	12,135.419	12,176.762	EAST BANK OF CREEK
62	4/B/27	346	29	15	113.530	12,124.903	12,175.355	EAST BANK OF CREEK
63	4/B/28	342	02	45	113.811	12,122.785	12,166.799	EAST BANK OF CREEK
64	4/B/29	345	07	45	101.368	12,112.489	12,175.867	EAST BANK OF CREEK
65	4/B/30	347	26	45	100.770	12,112.877	12,179.978	EAST BANK OF CREEK
66	4/B/31	346	50	45	90.534	12,102.675	12,181.279	EAST BANK OF CREEK

	A	B	C	D	E	F	G	H
67	Statien	True bearing			True dist	Northing	Easting	Description
68	4/B/32	347	36	45	77.572	12,090.282	12,185.241	EAST BANK OF CREEK
69	4/B/33	335	27	00	79.162	12,086.522	12,168.991	EAST BANK OF CREEK
70	4/B/34	342	11	15	50.107	12,062.221	12,186.554	EAST BANK OF CREEK
71	4/B/35	342	18	45	39.215	12,051.877	12,189.967	EAST BANK OF CREEK
72	4/B/36	333	44	45	35.820	12,046.641	12,186.037	EAST BANK OF CREEK
73	4/B/37	334	24	75	28.751	12,040.449	12,189.468	EAST BANK OF CREEK
74	4/B/38	354	23	45	38.622	12,052.953	12,198.110	EAST BANK OF CREEK
75	4/B/39	001	46	15	40.381	12,054.877	12,203.130	EAST BANK OF CREEK
76	4/B/40	012	04	45	34.620	12,048.370	12,209.127	EAST BANK OF CREEK
77	4/B/41	016	12	45	31.388	12,044.656	12,210.645	EAST BANK OF CREEK
78	4/B/42	050	52	45	31.906	12,034.647	12,226.635	EAST BANK OF CREEK
79	4/B/43	053	23	45	44.373	12,040.975	12,237.503	EAST BANK OF CREEK
80	4/B/44	053	25	25	33.244	12,034.326	12,228.579	EAST BANK OF CREEK
81	4/B/45	073	16	15	28.400	12,022.691	12,229.080	EAST BANK OF CREEK
82	4/B/46	083	56	45	19.200	12,016.541	12,220.975	EAST BANK OF CREEK
83	4/B/47	112	38	15	15.783	12,008.441	12,216.449	EAST BANK OF CREEK
84	4/B/48	137	38	15	18.451	12,000.883	12,214.314	EAST BANK OF CREEK
85	4/B/49	144	52	15	23.329	11,995.436	12,215.306	EAST BANK OF CREEK
86	4/B/50	178	10	45	32.392	11,982.140	12,202.911	EAST BANK OF CREEK
87	4/B/51	185	21	45	39.537	11,975.153	12,198.187	EAST BANK OF CREEK
88	4/B/52	194	01	45	47.146	11,968.777	12,190.453	EAST BANK OF CREEK
89	4/B/53	217	39	45	74.154	11,955.814	12,156.573	EAST BANK OF CREEK
90	4/B/54	222	30	45	93.017	11,945.950	12,139.026	EAST BANK OF CREEK
91	4/B/55	226	57	45	97.760	11,947.797	12,130.429	EAST BANK OF CREEK
92	4/B/56	296	45	45	127.578	12,071.964	12,087.970	WEST BANK OF CREEK
93	4/B/57	031	16	45	132.417	12,127.686	12,270.634	WEST BANK OF CREEK
94	4/B/58	025	09	00	126.064	12,128.629	12,255.458	WEST BANK OF CREEK
95	4/B/59	024	09	45	116.445	12,120.759	12,249.546	WEST BANK OF CREEK
96	4/B/60	013	32	15	119.420	12,130.618	12,229.836	WEST BANK OF CREEK
97	4/B/61	356	28	45	104.415	12,118.734	12,195.470	WEST BANK OF CREEK
98	4/B/62	001	51	45	-0.125	12,014.392	12,201.878	WEST BANK OF CREEK
99	4/B/63	354	18	15	126.959	12,140.848	12,189.282	WEST BANK OF CREEK

CAMP CK MAPPING 1

	A	B	C	D	E	F	G	H
100	Station	True bearing			True dist	Northing	Easting	Description
101	4/B/64	344	17	15	119.454	12,129.506	12,169.533	WEST BANK OF CREEK
102	4/B/65	341	50	45	102.695	12,112.099	12,169.885	WEST BANK OF CREEK
103	4/B/66	344	27	45	86.743	12,098.089	12,178.646	CAMP CREEK
104	4/B/67	333	24	45	81.791	12087.658	12165.275	CAMP CREEK
105	4/B/68	327	09	45	92.392	12092.145	12151.782	CAMP CREEK
106	4/B/69	326	02	15	90.412	12089.504	12151.374	CAMP CREEK
107	4/B/70	332	57	45	80.34	12086.076	12165.362	WEST BANK OF CREEK
108	4/B/71	333	16	45	48.717	12058.03	12179.977	WEST BANK OF CREEK
109	4/B/72	334	96	15	40.644	12051.531	12185.094	WEST BANK OF CREEK
110	4/B/73	327	05	15	38.361	12046.72	12181.038	WEST BANK OF CREEK
111	4/B/74	327	26	45	25.169	12035.73	12188.339	WEST BANK OF CREEK
112	4/B/75	000	37	00	36.889	12051.403	12202.279	WEST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	Observed Bearing			Distance		Slope	True bearing			True dist		Description
2	04	000	00	00					208	46	15		4
3	01	246	03	00	95.499	271	24	00	274	49	15	95.483	004 -004/A
4	02	076	04	30	109.881	269	21	00	104	50	45	109.866	004 -004/B
5	03	258	08	45	78.037	271	25	00	286	55	00	78.024	CAMP CREEK STRUCTURE
6	04	263	13	00	55.118	271	19	45	291	59	15	55.109	CAMP CREEK STRUCTURE
7	05	268	20	00	44.039	271	20	45	297	06	15	44.031	CAMP CREEK STRUCTURE
8	06	341	37	00	14.735	268	02	00	010	23	15	14.726	CAMP CREEK STRUCTURE
9	07	010	07	00	17.549	267	56	15	038	53	15	17.526	CAMP CREEK STRUCTURE
10	08	030	15	00	23.349	266	27	00	059	01	15	23.294	CAMP CREEK STRUCTURE
11	09	359	02	00	135.500	269	46	00	027	48	15	135.481	EDGE OF ROAD
12	10	001	55	15	126.396	269	37	00	030	41	30	126.379	EDGE OF ROAD
13	11	358	49	00	106.789	270	00	00	027	35	15	106.789	EDGE OF ROAD
14	12	002	45	00	90.705	269	09	00	031	31	15	90.693	EDGE OF ROAD
15	13	359	31	30	86.451	269	01	00	028	17	45	86.439	EDGE OF ROAD
16	14	004	08	45	47.967	268	56	00	032	55	00	47.939	EDGE OF ROAD
17	15	358	05	00	49.232	269	03	15	026	51	15	49.225	EDGE OF ROAD
18	16	007	50	00	22.777	267	17	00	036	36	15	22.747	EDGE OF ROAD
19	17	348	47	00	23.147	267	21	30	017	33	15	23.116	EDGE OF ROAD
20	18	163	44	00	10.748	269	10	30	192	30	15	10.747	EDGE OF ROAD
21	19	187	27	45	54.447	271	00	00	216	14	00	54.438	EDGE OF ROAD
22	20	178	50	00	54.344	270	34	00	207	36	15	54.344	EDGE OF ROAD
23	21	184	42	00	90.917	270	40	00	213	28	15	90.917	EDGE OF ROAD
24	22	127	12	00	79.926	268	34	00	155	58	15	79.880	EDGE OF ALLUVIUM
25	23	125	26	00	73.932	268	35	00	154	12	15	73.889	EDGE OF ALLUVIUM
26	24	124	23	00	59.912	268	35	00	153	09	15	59.877	EDGE OF ALLUVIUM
27	25	125	10	00	46.401	267	42	00	153	56	15	46.340	EDGE OF ALLUVIUM
28	26	115	05	45	29.670	267	06	00	143	52	00	29.631	EDGE OF ALLUVIUM
29	27	098	36	30	26.473	267	21	15	127	22	45	26.438	EDGE OF ALLUVIUM
30	28	073	37	00	27.100	268	00	00	102	23	15	27.084	EDGE OF ALLUVIUM
31	29	021	11	00	21.426	269	03	30	049	57	15	21.423	EDGE OF ALLUVIUM
32	30	124	31	30	52.283	268	15	00	153	17	45	52.253	004/1
33	31	128	11	00	50.156	268	40	00	156	57	15	50.127	004/2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	Station	Observed Bearing			Distance		Slope	True bearing			True dist		Description
35	004/B	000	00	00					104	50	45		004/B
36	01	161	03	45	95.157	271	21	00	085	54	30	95.141	004/C
37	02	286	01	15	94.874	269	55	45	210	52	00	94.861	004/D
38	03	081	18	00	22.238	268	35	00	006	08	45	22.225	CAMP CREEK STRUCTURE
39	04	096	00	00	23.182	269	32	30	020	50	45	23.179	CAMP CREEK STRUCTURE
40	05	116	51	00	27.945	265	37	30	041	41	45	27.841	CAMP CREEK STRUCTURE
41	06	131	43	15	34.236	268	58	00	056	34	00	34.216	CAMP CREEK STRUCTURE
42	07	143	44	05	46.793	270	55	15	068	34	50	46.793	CAMP CREEK STRUCTURE
43	08	146	39	30	55.099	270	55	45	071	30	15	55.099	CAMP CREEK STRUCTURE
44	09	148	50	30	66.719	271	04	30	073	41	15	66.708	CAMP CREEK STRUCTURE
45	10	114	09	30	87.975	270	49	30	039	00	15	87.975	EAST BANK OF CREEK
46	11	113	05	30	92.049	270	40	00	037	56	15	92.049	EAST BANK OF CREEK
47	12	112	59	30	120.081	270	32	15	037	50	15	120.081	EAST BANK OF CREEK
48	13	106	55	00	129.014	270	31	00	031	45	45	129.014	EAST BANK OF CREEK
49	14	102	52	00	124.310	270	26	30	027	42	45	124.310	EAST BANK OF CREEK
50	15	099	37	00	114.475	270	29	15	024	27	45	114.475	EAST BANK OF CREEK
51	16	096	35	00	116.540	270	24	00	021	25	45	116.540	EAST BANK OF CREEK
52	17	092	35	00	117.286	270	21	00	017	25	45	117.286	EAST BANK OF CREEK
53	18	088	15	45	116.428	270	16	50	013	05	90	116.428	EAST BANK OF CREEK
54	19	084	56	00	112.467	270	20	00	009	46	45	112.467	EAST BANK OF CREEK
55	20	076	13	00	100.837	270	19	00	001	03	45	100.837	EAST BANK OF CREEK
56	21	070	26	00	101.533	270	22	00	355	16	45	101.533	EAST BANK OF CREEK
57	22	075	11	30	113.786	270	19	30	000	01	75	113.786	EAST BANK OF CREEK
58	23	074	56	00	122.559	270	09	30	359	46	45	122.559	EAST BANK OF CREEK
59	24	073	39	15	124.497	270	13	15	358	30	00	124.497	EAST BANK OF CREEK
60	25	066	54	30	124.701	270	11	00	351	45	15	124.701	EAST BANK OF CREEK
61	26	063	25	00	123.485	270	11	00	348	15	45	123.485	EAST BANK OF CREEK
62	27	061	38	30	113.530	270	11	30	346	29	15	113.530	EAST BANK OF CREEK
63	28	057	12	00	113.811	270	08	15	342	02	45	113.811	EAST BANK OF CREEK
64	29	060	17	00	101.368	270	03	00	345	07	45	101.368	EAST BANK OF CREEK
65	30	062	36	00	100.770	270	15	30	347	26	45	100.770	EAST BANK OF CREEK
66	31	062	00	00	90.534	270	01	30	346	50	45	90.534	EAST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	Station	Observed Bearing			Distance		Slope	True bearing				True dist	Description
68	32	062	46	00	77.572	270	03	00	347	36	45	77.572	EAST BANK OF CREEK
69	33	050	36	15	79.173	269	50	30	335	27	00	79.162	EAST BANK OF CREEK
70	34	057	20	30	50.107	270	07	00	342	11	15	50.107	EAST BANK OF CREEK
71	35	057	28	00	39.215	270	00	30	342	18	45	39.215	EAST BANK OF CREEK
72	36	048	54	00	35.825	269	47	00	333	44	45	35.820	EAST BANK OF CREEK
73	37	049	34	30	28.755	269	34	30	334	24	75	28.751	EAST BANK OF CREEK
74	38	069	33	00	38.627	269	53	30	354	23	45	38.622	EAST BANK OF CREEK
75	39	076	55	30	40.386	269	40	30	001	46	15	40.381	EAST BANK OF CREEK
76	40	087	14	00	34.625	269	25	00	012	04	45	34.620	EAST BANK OF CREEK
77	41	091	22	00	31.392	269	17	00	016	12	45	31.388	EAST BANK OF CREEK
78	42	126	02	00	31.924	268	48	00	050	52	45	31.906	EAST BANK OF CREEK
79	43	128	33	00	44.373	270	00	00	053	23	45	44.373	EAST BANK OF CREEK
80	44	128	34	30	33.248	269	57	30	053	25	25	33.244	EAST BANK OF CREEK
81	45	148	27	30	28.404	269	38	00	073	16	15	28.400	EAST BANK OF CREEK
82	46	159	06	00	19.211	268	58	00	083	56	45	19.200	EAST BANK OF CREEK
83	47	187	47	30	15.785	269	15	00	112	38	15	15.783	EAST BANK OF CREEK
84	48	212	47	30	18.475	267	52	30	137	38	15	18.451	EAST BANK OF CREEK
85	49	220	01	30	23.332	269	53	00	144	52	15	23.329	EAST BANK OF CREEK
86	50	255	20	00	32.411	268	31	00	178	10	45	32.392	EAST BANK OF CREEK
87	51	260	31	00	39.542	269	34	00	185	21	45	39.537	EAST BANK OF CREEK
88	52	269	11	00	47.152	269	33	30	194	01	45	47.146	EAST BANK OF CREEK
89	53	292	49	00	74.164	269	30	00	217	39	45	74.154	EAST BANK OF CREEK
90	54	297	40	00	93.030	269	39	00	222	30	45	93.017	EAST BANK OF CREEK
91	55	302	07	00	97.773	269	30	00	226	57	45	97.760	EAST BANK OF CREEK
92	56	011	55	00	127.578	270	35	00	296	45	45	127.578	WEST BANK OF CREEK
93	57	106	26	00	132.417	270	32	30	031	16	45	132.417	WEST BANK OF CREEK
94	58	100	18	15	126.064	270	30	00	025	09	00	126.064	WEST BANK OF CREEK
95	59	099	19	00	116.445	270	26	00	024	09	45	116.445	WEST BANK OF CREEK
96	60	089	41	30	119.420	270	23	00	013	32	15	119.420	WEST BANK OF CREEK
97	61	072	38	00	104.415	270	16	30	356	28	45	104.415	WEST BANK OF CREEK
98	62	077	01	00	120.000	360	270	34	001	51	45	-0.125	WEST BANK OF CREEK
99	63	070	27	30	126.959	270	13	30	354	18	15	126.959	WEST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
100	Station	Observed Bearing			Distance		Slope	True bearing				True dist	Description
101	64	060	26	30	119.454	270	11	30	344	17	15	119.454	WEST BANK OF CREEK
102	65	057	00	00	102.695	270	14	30	341	50	45	102.695	WEST BANK OF CREEK
103	66	060	37	00	86.743	270	07	00	344	27	45	86.743	CAMP CREEK
104	67	049	34	00	81.791	270	01	00	333	24	45	81.791	CAMP CREEK
105	68	043	19	00	92.392	270	01	00	327	09	45	92.392	CAMP CREEK
106	69	042	11	30	90.424	269	55	00	326	02	15	90.412	CAMP CREEK
107	70	048	07	00	80.351	269	57	00	332	57	45	80.340	WEST BANK OF CREEK
108	71	049	26	00	48.717	270	11	30	333	16	45	48.717	WEST BANK OF CREEK
109	72	050	45	30	40.650	269	42	00	334	96	15	40.644	WEST BANK OF CREEK
110	73	043	14	30	38.361	270	00	00	327	05	15	38.361	WEST BANK OF CREEK
111	74	043	36	00	25.173	271	54	00	327	26	45	25.169	WEST BANK OF CREEK
112	75	076	46	15	36.894	269	13	30	000	37	00	36.889	WEST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC1	243º 35' 00"	111.763	12,594.010	12,324.909	HC1
HC3	009º 58' 30"	8.823	12,602.700	12,326.437	HC1-HC3
HC5	155º 52' 00"	9.947	12,593.622	12,330.504	HC3-HC5
HC5/1	174º 37' 00"	9.193	12,584.470	12,331.367	EDGE OF MULLOCK
HC5/2	011º 08' 45"	7.484	12,600.965	12,331.951	EDGE OF MULLOCK
HC5/3	035º 66' 15"	0.000	12,593.622	12,330.504	EDGE OF MULLOCK
HC5/4	099º 25' 30"	3.386	12,593.068	12,333.845	EDGE OF MULLOCK
HC5/5	148º 41' 00"	3.421	12,590.700	12,332.282	EDGE OF MULLOCK
HC5/6	236º 15' 30"	6.616	12,589.947	12,325.003	EDGE OF MULLOCK
HC5/7	257º 08' 30"	8.946	12,591.631	12,321.783	EDGE OF MULLOCK
HC5/8	287º 00' 00"	11.105	12,596.869	12,319.885	EDGE OF MULLOCK
HC5/9	308º 51' 30"	11.122	12,600.600	12,321.844	EDGE OF MULLOCK
HC5/10	326º 15' 00"	10.341	12,602.220	12,324.759	END OF STOPE
HC5/11	334º 41' 00"	8.970	12,601.731	12,326.669	END OF STOPE
HC5/12	022º 32' 00"	8.941	12,601.881	12,333.931	ORE PILE
HC5/13	099º 57' 00"	5.779	12,592.624	12,336.196	ORE PILE
HC5/14	071º 34' 30"	5.183	12,595.260	12,335.422	SHAFT MULLOCK
HC5/15	169º 01' 00"	5.256	12,588.462	12,331.506	SHAFT MULLOCK
HC5/16	139º 35' 00"	7.392	12,587.994	12,335.297	SHAFT MULLOCK
HC5/17	142º 06' 00"	13.936	12,582.625	12,339.065	SHAFT MULLOCK
HC5/18	158º 02' 30"	16.025	12,578.760	12,336.497	SHAFT MULLOCK
HC5/19	180º 03' 00"	14.219	12,579.403	12,330.492	SHAFT MULLOCK
HC5/20	195º 53' 45"	11.236	12,582.816	12,327.427	SHAFT MULLOCK
HC5/21	200º 31' 00"	6.443	12,587.588	12,328.246	EDGE OF SHAFT
HC5/22	161º 23' 00"	6.702	12,587.271	12,332.644	EDGE OF SHAFT
HC5/23	147º 16' 00"	11.076	12,584.305	12,336.493	EDGE OF SHAFT
HC5/24	163º 06' 45"	13.055	12,581.130	12,334.297	EDGE OF SHAFT
HC5/25	183º 22' 30"	10.345	12,583.295	12,329.895	EDGE OF SHAFT
HC5/26	165º 55' 00"	10.054	12,583.870	12,332.951	CENTRE OF SHAFT
HC5/27	121º 45' 00"	8.383	12,589.211	12,337.633	WASTE DUMP
HC5/28	127º 15' 00"	11.440	12,586.698	12,339.611	WASTE DUMP
HC5/29	134º 39' 00"	14.466	12,583.456	12,340.796	WASTE DUMP
HC5/30	081º 18' 30"	12.437	12,595.502	12,342.798	WASTE DUMP 2
HC5/31	090º 26' 30"	15.271	12,593.504	12,345.775	WASTE DUMP 2
HC5/32	097º 55' 30"	13.723	12,591.730	12,344.096	WASTE DUMP 2
HC5/33	091º 34' 00"	10.932	12,593.323	12,341.432	WASTE DUMP 2
HC5/34	154º 44' 00"	34.699	12,562.243	12,345.315	PIT
HC5/35	154º 55' 00"	36.275	12,560.768	12,345.883	PIT
HC5/36	157º 02' 30"	36.319	12,560.180	12,344.671	PIT
HC5/37	157º 10' 00"	34.526	12,561.802	12,343.902	PIT
HC5/38	152º 09' 15"	34.066	12,563.501	12,346.416	EAST DUMP
HC5/39	149º 57' 30"	36.471	12,562.051	12,348.763	EAST DUMP
HC5/40	152º 55' 15"	38.320	12,559.503	12,347.948	EAST DUMP
HC5/41	153º 56' 45"	35.742	12,561.512	12,346.203	EAST DUMP
HC5/42	159º 30' 30"	33.345	12,562.387	12,342.177	WEST DUMP
HC5/43	161º 02' 30"	37.686	12,557.980	12,342.748	WEST DUMP
HC5/44	163º 32' 00"	35.251	12,559.817	12,340.496	WEST DUMP
HC5/45	163º 42' 45"	25.378	12,569.263	12,337.622	PIT
HC5/46	163º 57' 00"	27.244	12,567.440	12,338.037	PIT
HC5/47	165º 08' 30"	27.469	12,567.072	12,337.548	PIT
HC5/48	171º 54' 00"	25.646	12,568.232	12,334.118	PIT
HC5/49	141º 57' 00"	49.695	12,554.489	12,361.134	WASTE
HC5/50	139º 16' 30"	51.132	12,554.872	12,363.864	WASTE

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC5/51	141º 34' 30"	53.280	12,551.881	12,363.617	WASTE
HC5/52	143º 43' 00"	51.148	12,552.392	12,360.773	WASTE
HC5/53	137º 16' 00"	58.784	12,550.444	12,370.394	ROAD
HC5/54	137º 11' 00"	65.937	12,545.255	12,375.319	ROAD
HC5/55	141º 51' 00"	67.810	12,540.297	12,372.392	ROAD
HC5/56	142º 56' 00"	61.196	12,544.792	12,367.390	ROAD
HC6	155º 52' 00"	84.873	12,516.167	12,365.206	HC5-HC6
HC7	245º 52' 00"	129.282	12,540.764	12,212.522	HC5-HC7
HC8	335º 52' 00"	146.079	12,726.933	12,270.778	HC5-HC8
HC9	065º 52' 00"	89.772	12,630.326	12,412.430	HC5-HC9
HC6/1	019º 48' 45"	75.058	12,586.782	12,390.646	North side of Track from HC6
HC6/2	018º 40' 00"	67.072	12,579.711	12,386.673	North side of Track from HC6
HC6/3	016º 51' 15"	59.024	12,572.656	12,382.319	North side of Track from HC6
HC6/4	013º 46' 30"	48.147	12,562.930	12,376.670	North side of Track from HC6
HC6/5	010º 26' 30"	39.959	12,555.465	12,372.448	North side of Track from HC6
HC6/6	005º 16' 15"	31.867	12,547.900	12,368.133	North side of Track from HC6
HC6/7	353º 41' 45"	22.063	12,538.097	12,362.783	North side of Track from HC6
HC6/8	335º 39' 15"	15.774	12,530.539	12,358.703	North side of Track from HC6
HC6/9	304º 56' 30"	12.540	12,523.350	12,354.926	North side of Track from HC6
HC6/10	269º 20' 15"	14.509	12,516.000	12,350.698	North side of Track from HC6
HC6/11	249º 11' 00"	20.101	12,509.024	12,346.417	North side of Track from HC6
HC6/12	237º 45' 15"	26.822	12,501.856	12,342.520	North side of Track from HC6
HC6/13	231º 06' 00"	34.421	12,494.552	12,338.418	North side of Track from HC6
HC6/14	226º 39' 30"	42.125	12,487.255	12,334.569	North side of Track from HC6
HC6/15	215º 49' 30"	41.247	12,482.724	12,341.063	South side of Track / HC6
HC6/16	220º 04' 30"	25.834	12,496.399	12,348.574	South side of Track / HC6
HC6/17	224º 41' 30"	17.902	12,503.441	12,352.615	South side of Track / HC6
HC6/18	239º 37' 00"	9.884	12,511.168	12,356.679	South side of Track / HC6
HC6/19	303º 09' 30"	4.830	12,518.809	12,361.162	South side of Track / HC6
HC6/20	005º 59' 30"	12.369	12,528.469	12,366.497	South side of Track / HC6
HC6/21	016º 19' 30"	19.716	12,535.088	12,370.747	South side of Track / HC6
HC6/22	019º 32' 15"	27.914	12,542.474	12,374.541	South side of Track / HC6
HC6/23	022º 54' 30"	40.335	12,553.321	12,380.906	South side of Track / HC6
HC6/24	023º 11' 00"	49.189	12,561.384	12,384.570	South side of Track / HC6
HC6/25	025º 09' 45"	63.884	12,573.989	12,392.368	South side of Track / HC6
HC6/26	025º 57' 00"	74.144	12,582.836	12,397.650	South side of Track / HC6
HC6/27	037º 44' 30"	49.498	12,555.309	12,395.503	Road Cutting Spoil Heap
HC6/28	032º 21' 30"	41.542	12,551.259	12,387.439	Road Cutting Spoil Heap
HC6/29	057º 09' 30"	32.732	12,533.919	12,392.706	Road Cutting Spoil Heap
HC6/30	092º 39' 45"	36.525	12,514.471	12,401.691	Road Cutting Spoil Heap
HC6/31	103º 54' 00"	46.991	12,504.879	12,410.821	Road Cutting Spoil Heap
HC6/32	111º 04' 45"	68.757	12,491.438	12,429.362	Road Cutting Spoil Heap
HC6/33	105º 56' 30"	74.678	12,495.656	12,437.012	Road Cutting Spoil Heap
HC10	155º 52' 00"	190.017	12,342.759	12,442.896	HC6-HC10
HC11	223º 06' 00"	105.903	12,265.432	12,370.535	HC10-HC11
HC11/1	310º 37' 15"	92.376	12,325.574	12,300.418	EAST BANK OF CREEK
HC11/2	315º 10' 15"	91.414	12,330.264	12,306.088	EAST BANK OF CREEK
HC11/3	313º 16' 45"	82.435	12,321.946	12,310.521	EAST BANK OF CREEK
HC11/4	314º 52' 45"	73.425	12,317.242	12,318.507	EAST BANK OF CREEK
HC11/5	318º 28' 00"	78.445	12,324.154	12,318.522	EAST BANK OF CREEK
HC11/6	315º 19' 00"	76.128	12,319.560	12,317.003	EAST BANK OF CREEK
HC11/7	310º 42' 00"	61.175	12,305.324	12,324.156	EAST BANK OF CREEK
HC11/8	305º 11' 00"	53.996	12,296.545	12,326.403	EAST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC11/9	296º 10' 45"	50.906	12,287.891	12,324.851	EAST BANK OF CREEK
HC11/10	274º 19' 00"	40.319	12,268.467	12,330.331	EAST BANK OF CREEK
HC11/11	255º 00' 00"	40.708	12,254.896	12,331.214	EAST BANK OF CREEK
HC11/12	237º 50' 30"	44.188	12,241.913	12,333.127	EAST BANK OF CREEK
HC11/13	229º 20' 00"	53.943	12,230.280	12,329.619	EAST BANK OF CREEK
HC11/14	228º 19' 30"	66.043	12,221.520	12,321.206	EAST BANK OF CREEK
HC11/15	223º 21' 30"	72.623	12,212.630	12,320.675	EAST BANK OF CREEK
HC11/16	217º 15' 00"	85.425	12,197.434	12,318.828	EAST BANK OF CREEK
HC11/17	212º 41' 30"	99.640	12,181.408	12,316.610	EAST BANK OF CREEK
HC11/18	208º 32' 30"	122.053	12,158.213	12,312.219	EAST BANK OF CREEK
HC11/19	207º 23' 30"	128.472	12,151.364	12,311.429	EAST BANK OF CREEK
HC11/20	208º 31' 30"	130.553	12,150.727	12,308.191	WEST BANK OF CREEK
HC11/21	212º 16' 15"	107.350	12,174.664	12,313.219	WEST BANK OF CREEK
HC11/22	215º 45' 00"	98.568	12,185.437	12,312.947	WEST BANK OF CREEK
HC11/23	222º 24' 15"	78.957	12,207.130	12,317.290	WEST BANK OF CREEK
HC11/24	229º 48' 30"	68.019	12,221.536	12,318.576	WEST BANK OF CREEK
HC11/25	231º 11' 00"	59.170	12,228.343	12,324.433	WEST BANK OF CREEK
HC11/26	239º 43' 00"	50.802	12,239.814	12,326.666	WEST BANK OF CREEK
HC11/27	255º 59' 30"	44.746	12,254.601	12,327.120	WEST BANK OF CREEK
HC11/28	274º 01' 00"	44.141	12,268.524	12,326.503	WEST BANK OF CREEK
HC11/29	190º 01' 00"	51.051	12,215.159	12,361.656	WEST BANK OF CREEK
HC11/30	310º 49' 00"	64.874	12,307.837	12,321.438	WEST BANK OF CREEK
HC11/31	311º 21' 15"	82.227	12,319.760	12,308.813	WEST BANK OF CREEK
HC11/32	312º 57' 30"	90.132	12,326.854	12,304.572	WEST BANK OF CREEK
HC11/33	309º 50' 30"	90.781	12,323.593	12,300.832	WEST BANK OF CREEK
HC11/34	342º 21' 30"	68.629	12,330.833	12,349.736	East Edge of Alluvium
HC11/35	331º 40' 15"	40.520	12,301.100	12,351.307	East Edge of Alluvium
HC11/36	303º 16' 45"	30.020	12,281.905	12,345.439	East Edge of Alluvium
HC11/37	262º 43' 00"	27.960	12,261.888	12,342.801	East Edge of Alluvium
HC11/38	236º 07' 15"	31.866	12,247.669	12,344.080	East Edge of Alluvium
HC11/39	223º 09' 30"	42.870	12,234.160	12,341.211	East Edge of Alluvium
HC11/40	223º 12' 00"	58.494	12,222.792	12,330.493	East Edge of Alluvium
HC11/41	214º 51' 00"	70.206	12,207.817	12,330.417	East Edge of Alluvium
HC11/42	211º 00' 30"	73.849	12,202.137	12,332.491	East Edge of Alluvium
HC11/43	361º 47' 30"	4.478	12,269.908	12,370.675	FAULT ZONE CONTROL
HC11/44	178º 18' 00"	4.793	12,260.641	12,370.677	FAULT ZONE CONTROL
HC11/45	178º 35' 45"	11.690	12,253.746	12,370.822	FAULT ZONE CONTROL
HC11/46	178º 57' 00"	18.472	12,246.963	12,370.874	FAULT ZONE CONTROL
HC11/47	179º 34' 30"	24.795	12,240.638	12,370.719	FAULT ZONE CONTROL
HC11/48	182º 41' 00"	48.190	12,217.295	12,368.279	FAULT ZONE CONTROL
HC11/49	181º 21' 00"	65.125	12,200.325	12,369.001	FAULT ZONE CONTROL
HC12	179º 12' 30"	81.166	12,184.274	12,371.657	HC11-HC12
HC12/1	283º 31' 30"	34.184	12,192.269	12,338.421	EDGE OF ALLUVIUM
HC12/2	311º 53' 00"	18.580	12,196.679	12,357.823	EDGE OF ALLUVIUM
HC12/3	345º 41' 00"	12.915	12,196.788	12,368.463	EDGE OF ALLUVIUM
HC12/4	305º 56' 15"	14.055	12,192.523	12,360.277	EDGE OF ALLUVIUM
HC12/5	289º 38' 30"	11.671	12,188.197	12,360.665	EDGE OF ALLUVIUM
HC12/6	262º 21' 30"	30.621	12,180.202	12,341.307	EDGE OF ALLUVIUM
HC12/7	238º 26' 30"	29.582	12,168.792	12,346.450	EDGE OF ALLUVIUM
HC12/8	203º 05' 30"	33.023	12,153.897	12,358.705	EDGE OF ALLUVIUM
HC12/9	182º 40' 00"	41.206	12,143.113	12,369.740	EDGE OF ALLUVIUM
HC12/10	176º 28' 30"	56.902	12,127.480	12,375.155	EDGE OF ALLUVIUM
HC12/11	171º 21' 00"	62.920	12,122.069	12,381.120	EDGE OF ALLUVIUM

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC12/12	162º 26' 00"	84.913	12,103.321	12,397.285	EDGE OF ALLUVIUM
HC12/13	156º 41' 30"	102.220	12,090.396	12,412.103	EDGE OF ALLUVIUM
HC12/14	160º 27' 30"	96.792	12,093.057	12,404.033	EDGE OF ALLUVIUM
HC12/15	162º 24' 00"	87.128	12,101.224	12,398.002	EDGE OF ALLUVIUM
HC12/16	171º 25' 30"	76.012	12,109.112	12,382.990	EDGE OF ALLUVIUM
HC12/17	179º 43' 00"	65.169	12,119.106	12,371.979	EDGE OF ALLUVIUM
HC12/18	185º 52' 00"	52.034	12,132.513	12,366.338	EDGE OF ALLUVIUM
HC12/19	187º 24' 30"	43.609	12,141.029	12,366.034	EDGE OF ALLUVIUM
HC12/20	207º 65' 00"	42.768	12,146.541	12,351.523	EDGE OF ALLUVIUM
HC12/21	239º 59' 30"	69.639	12,149.446	12,311.353	EAST BANK OF CREEK
HC12/22	224º 35' 00"	108.552	12,106.960	12,295.459	EAST BANK OF CREEK
HC12/23	223º 25' 00"	123.519	12,094.553	12,286.762	EAST BANK OF CREEK
HC12/24	223º 12' 00"	140.153	12,082.107	12,275.716	EAST BANK OF CREEK
HC12/25	225º 03' 30"	137.549	12,087.111	12,274.296	WEST BANK OF CREEK
HC12/26	235º 57' 45"	80.379	12,139.283	12,305.049	WEST BANK OF CREEK
HC12/27	178º 20' 30"	27.735	12,156.551	12,372.459	1
HC12/28	161º 32' 30"	42.650	12,143.818	12,385.160	2
HC12/29	173º 54' 30"	38.114	12,146.375	12,375.701	SMALL CREEK
HC12/30	140º 54' 00"	58.661	12,138.750	12,408.653	SMALL CREEK
HC7/1	327º 15' 00"	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
HC7/2	327º 22' 00"	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
HC7/3	331º 42' 30"	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
HC7/4	342º 43' 00"	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
HC7/5	341º 30' 30"	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
HC7/6	347º 32' 00"	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
HC7/7	354º 40' 30"	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
HC7/8	358º 59' 30"	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
HC7/9	374º 34' 00"	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
HC7/10	039º 11' 30"	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
HC7/11	061º 15' 00"	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
HC7/12	083º 56' 00"	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
HC7/13	097º 42' 00"	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
HC7/14	115º 18' 00"	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
HC7/15	132º 14' 30"	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
HC7/16	138º 53' 00"	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
HC7/17	148º 37' 00"	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
HC7/18	154º 48' 00"	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
HC7/19	159º 45' 45"	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
HC7/20	163º 42' 30"	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
HC7/21	167º 59' 30"	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
HC7/22	168º 27' 30"	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
HC7/23	167º 50' 30"	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
HC7/24	164º 37' 00"	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
HC7/25	162º 40' 00"	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
HC7/26	162º 41' 15"	111.121	12,434.677	12,245.590	EAST BANK OF CREEK
HC7/27	161º 12' 30"	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
HC7/28	156º 09' 00"	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
HC7/29	150º 05' 00"	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
HC7/30	147º 31' 30"	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
HC7/31	145º 37' 30"	115.058	12,445.799	12,277.485	EAST BANK OF CREEK
HC7/32	146º 21' 00"	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
HC7/32	148º 28' 30"	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
HC7/33	149º 35' 45"	107.645	12,447.922	12,267.001	WEST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/34	151º 43' 30"	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
HC7/35	158º 35' 00"	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
HC7/36	159º 50' 30"	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
HC7/37	157º 37' 30"	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
HC7/38	159º 39' 00"	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
HC7/39	163º 53' 00"	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
HC7/40	167º 23' 30"	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
HC7/41	170º 40' 00"	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
HC7/42	168º 56' 00"	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
HC7/43	162º 57' 30"	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
HC7/44	146º 50' 00"	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
HC7/45	138º 59' 30"	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
HC7/46	122º 36' 00"	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
HC7/47	083º 11' 30"	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
HC7/48	059º 06' 30"	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
HC7/49	039º 04' 30"	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
HC7/50	033º 04' 00"	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
HC7/51	015º 58' 00"	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
HC7/52	353º 56' 00"	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
HC7/53	349º 30' 00"	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
HC7/54	346º 01' 00"	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
HC7/55	341º 19' 30"	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
HC7/56	339º 26' 45"	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
HC7/57	326º 02' 00"	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
HC7/58	323º 43' 30"	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
HC7/59	322º 33' 15"	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
HC7/60	196º 22' 00"	145.831	12,400.842	12,171.429	Western Edge of Alluvium
HC7/61	199º 03' 45"	122.928	12,424.577	12,172.374	Western Edge of Alluvium
HC7/62	207º 01' 00"	104.091	12,448.032	12,165.239	Western Edge of Alluvium
HC7/63	214º 44' 30"	93.852	12,463.643	12,159.038	Western Edge of Alluvium
HC7/64	249º 13' 30"	63.153	12,518.363	12,153.475	Western Edge of Alluvium
HC7/65	273º 09' 00"	61.217	12,544.128	12,151.397	Western Edge of Alluvium
HC7/66	293º 06' 30"	84.850	12,574.065	12,134.480	Western Edge of Alluvium
HC7/67	297º 55' 00"	101.140	12,588.116	12,123.152	Western Edge of Alluvium
HC7/68	297º 22' 00"	111.514	12,592.025	12,113.488	Western Edge of Alluvium
HC7/69	299º 43' 30"	127.073	12,603.771	12,102.170	Western Edge of Alluvium
HC7/70	304º 52' 00"	143.860	12,623.004	12,094.487	Western Edge of Alluvium
HC7/71	349º 31' 00"	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
HC7/72	003º 53' 30"	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
HC7/73	029º 35' 30"	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
HC7/74	055º 45' 00"	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium
HC7/75	081º 14' 30"	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
HC7/76	101º 59' 45"	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
HC7/77	122º 42' 30"	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
HC7/78	113º 34' 00"	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
HC2/1	132º 41' 00"	30.538	12,499.687	12,433.052	Cut Spoil Heap
HC2/2	111º 00' 15"	12.796	12,515.804	12,422.548	Cut Spoil Heap
HC2/3	073º 07' 30"	15.842	12,524.989	12,425.763	Cut Spoil Heap
HC2/4	019º 49' 45"	21.778	12,540.877	12,417.990	Cut Spoil Heap
HC2/5	355º 30' 00"	26.114	12,546.423	12,408.554	Cut Spoil Heap
HC2/6	027º 57' 30"	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
HC2/7	053º 10' 30"	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
HC2/8	047º 34' 30"	32.474	12,542.298	12,434.574	Cut Spoil Heap 2

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC2/9	060º 50' 45"	23.089	12,531.638	12,430.767	Cut Spoil Heap 2
HC11/1	310º 37' 15"	92.376	12,325.574	12,300.418	EAST BANK OF CREEK
HC11/2	315º 10' 15"	91.414	12,330.264	12,306.088	EAST BANK OF CREEK
HC11/3	313º 16' 45"	82.435	12,321.946	12,310.521	EAST BANK OF CREEK
HC11/4	314º 52' 45"	73.425	12,317.242	12,318.507	EAST BANK OF CREEK
HC11/5	318º 28' 00"	78.445	12,324.154	12,318.522	EAST BANK OF CREEK
HC11/6	315º 19' 00"	76.128	12,319.560	12,317.003	EAST BANK OF CREEK
HC11/7	310º 42' 00"	61.175	12,305.324	12,324.156	EAST BANK OF CREEK
HC11/8	305º 11' 00"	53.996	12,296.545	12,326.403	EAST BANK OF CREEK
HC11/9	296º 10' 45"	50.906	12,287.891	12,324.851	EAST BANK OF CREEK
HC11/10	274º 19' 00"	40.319	12,268.467	12,330.331	EAST BANK OF CREEK
HC11/11	255º 00' 00"	40.708	12,254.896	12,331.214	EAST BANK OF CREEK
HC11/12	237º 50' 30"	44.188	12,241.913	12,333.127	EAST BANK OF CREEK
HC11/13	229º 20' 00"	53.943	12,230.280	12,329.619	EAST BANK OF CREEK
HC11/14	228º 19' 30"	66.043	12,221.520	12,321.206	EAST BANK OF CREEK
HC11/15	223º 21' 30"	72.623	12,212.630	12,320.675	EAST BANK OF CREEK
HC11/16	217º 15' 00"	85.425	12,197.434	12,318.828	EAST BANK OF CREEK
HC11/17	212º 41' 30"	99.840	12,181.408	12,316.610	EAST BANK OF CREEK
HC11/18	208º 32' 30"	122.053	12,158.213	12,312.219	EAST BANK OF CREEK
HC11/19	207º 23' 30"	128.472	12,151.364	12,311.429	EAST BANK OF CREEK
HC11/20	208º 31' 30"	130.553	12,150.727	12,308.191	WEST BANK OF CREEK
HC11/21	212º 16' 15"	107.350	12,174.664	12,313.219	WEST BANK OF CREEK
HC11/22	215º 45' 00"	98.568	12,185.437	12,312.947	WEST BANK OF CREEK
HC11/23	222º 24' 15"	78.957	12,207.130	12,317.290	WEST BANK OF CREEK
HC11/24	229º 48' 30"	68.019	12,221.536	12,318.576	WEST BANK OF CREEK
HC11/25	231º 11' 00"	59.170	12,228.343	12,324.433	WEST BANK OF CREEK
HC11/26	239º 43' 00"	50.802	12,239.814	12,326.666	WEST BANK OF CREEK
HC11/27	255º 59' 30"	44.746	12,254.601	12,327.120	WEST BANK OF CREEK
HC11/28	274º 01' 00"	44.141	12,268.524	12,326.503	WEST BANK OF CREEK
HC11/29	190º 01' 00"	51.051	12,215.159	12,361.656	WEST BANK OF CREEK
HC11/30	310º 49' 00"	64.874	12,307.837	12,321.438	WEST BANK OF CREEK
HC11/31	311º 21' 15"	82.227	12,319.760	12,308.813	WEST BANK OF CREEK
HC11/32	312º 57' 30"	90.132	12,326.854	12,304.572	WEST BANK OF CREEK
HC11/33	309º 50' 30"	90.781	12,323.593	12,300.832	WEST BANK OF CREEK
HC11/34	342º 21' 30"	68.629	12,330.833	12,349.736	East Edge of Alluvium
HC11/35	331º 40' 15"	40.520	12,301.100	12,351.307	East Edge of Alluvium
HC11/36	303º 16' 45"	30.020	12,281.905	12,345.439	East Edge of Alluvium
HC11/37	262º 43' 00"	27.960	12,261.888	12,342.801	East Edge of Alluvium
HC11/38	236º 07' 15"	31.866	12,247.669	12,344.080	East Edge of Alluvium
HC11/39	223º 09' 30"	42.870	12,234.160	12,341.211	East Edge of Alluvium
HC11/40	223º 12' 00"	58.494	12,222.792	12,330.493	East Edge of Alluvium
HC11/41	214º 51' 00"	70.206	12,207.817	12,330.417	East Edge of Alluvium
HC11/42	211º 00' 30"	73.849	12,202.137	12,332.491	East Edge of Alluvium
HC11/43	361º 47' 30"	4.478	12,269.908	12,370.675	FAULT ZONE CONTROL
HC11/44	178º 18' 00"	4.793	12,260.641	12,370.677	FAULT ZONE CONTROL
HC11/45	178º 35' 45"	11.690	12,253.746	12,370.822	FAULT ZONE CONTROL
HC11/46	178º 57' 00"	18.472	12,246.963	12,370.874	FAULT ZONE CONTROL
HC11/47	179º 34' 30"	24.795	12,240.638	12,370.719	FAULT ZONE CONTROL
HC11/48	182º 41' 00"	48.190	12,217.295	12,368.279	FAULT ZONE CONTROL
HC11/49	181º 21' 00"	65.125	12,200.325	12,369.001	FAULT ZONE CONTROL
HC12/1	283º 31' 30"	34.184	12,192.269	12,338.421	EDGE OF ALLUVIUM
HC12/2	311º 53' 00"	18.580	12,196.679	12,357.823	EDGE OF ALLUVIUM
HC12/3	345º 41' 00"	12.915	12,196.788	12,368.463	EDGE OF ALLUVIUM

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC12/4	305º 56' 15"	14.055	12,192.523	12,360.277	EDGE OF ALLUVIUM
HC12/5	289º 38' 30"	11.671	12,188.197	12,360.665	EDGE OF ALLUVIUM
HC12/6	262º 21' 30"	30.621	12,180.202	12,341.307	EDGE OF ALLUVIUM
HC12/7	238º 26' 30"	29.582	12,168.792	12,346.450	EDGE OF ALLUVIUM
HC12/8	203º 05' 30"	33.023	12,153.897	12,358.705	EDGE OF ALLUVIUM
HC12/9	182º 40' 00"	41.206	12,143.113	12,369.740	EDGE OF ALLUVIUM
HC12/10	176º 28' 30"	56.902	12,127.480	12,375.155	EDGE OF ALLUVIUM
HC12/11	171º 21' 00"	62.920	12,122.069	12,381.120	EDGE OF ALLUVIUM
HC12/12	162º 26' 00"	84.913	12,103.321	12,397.285	EDGE OF ALLUVIUM
HC12/13	156º 41' 30"	102.220	12,090.396	12,412.103	EDGE OF ALLUVIUM
HC12/14	160º 27' 30"	96.792	12,093.057	12,404.033	EDGE OF ALLUVIUM
HC12/15	162º 24' 00"	87.128	12,101.224	12,398.002	EDGE OF ALLUVIUM
HC12/16	171º 25' 30"	76.012	12,109.112	12,382.990	EDGE OF ALLUVIUM
HC12/17	179º 43' 00"	65.169	12,119.106	12,371.979	EDGE OF ALLUVIUM
HC12/18	185º 52' 00"	52.034	12,132.513	12,366.338	EDGE OF ALLUVIUM
HC12/19	187º 24' 30"	43.609	12,141.029	12,366.034	EDGE OF ALLUVIUM
HC12/20	207º 65' 00"	42.768	12,146.541	12,351.523	EDGE OF ALLUVIUM
HC12/21	239º 59' 30"	69.639	12,149.446	12,311.353	EAST BANK OF CREEK
HC12/22	224º 35' 00"	108.552	12,106.960	12,295.459	EAST BANK OF CREEK
HC12/23	223º 25' 00"	123.519	12,094.553	12,286.762	EAST BANK OF CREEK
HC12/24	223º 12' 00"	140.153	12,082.107	12,275.716	EAST BANK OF CREEK
HC12/25	225º 03' 30"	137.549	12,087.111	12,274.296	WEST BANK OF CREEK
HC12/26	235º 57' 45"	80.379	12,139.283	12,305.049	WEST BANK OF CREEK
HC12/27	178º 20' 30"	27.735	12,156.551	12,372.459	1
HC12/28	161º 32' 30"	42.650	12,143.818	12,385.160	2
HC12/29	173º 54' 30"	38.114	12,146.375	12,375.701	SMALL CREEK
HC12/30	140º 54' 00"	58.661	12,138.750	12,408.653	SMALL CREEK
HC7/1	327º 15' 00"	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
HC7/2	327º 22' 00"	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
HC7/3	331º 42' 30"	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
HC7/4	342º 43' 00"	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
HC7/5	341º 30' 30"	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
HC7/6	347º 32' 00"	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
HC7/7	354º 40' 30"	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
HC7/8	358º 59' 30"	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
HC7/9	374º 34' 00"	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
HC7/10	039º 11' 30"	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
HC7/11	061º 15' 00"	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
HC7/12	083º 56' 00"	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
HC7/13	097º 42' 00"	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
HC7/14	115º 18' 00"	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
HC7/15	132º 14' 30"	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
HC7/16	138º 53' 00"	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
HC7/17	148º 37' 00"	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
HC7/18	154º 48' 00"	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
HC7/19	159º 45' 45"	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
HC7/20	163º 42' 30"	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
HC7/21	167º 59' 30"	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
HC7/22	168º 27' 30"	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
HC7/23	167º 50' 30"	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
HC7/24	164º 37' 00"	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
HC7/25	162º 40' 00"	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
HC7/26	162º 41' 15"	111.121	12,434.677	12,245.590	EAST BANK OF CREEK

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/27	161º 12' 30"	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
HC7/28	156º 09' 00"	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
HC7/29	150º 05' 00"	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
HC7/30	147º 31' 30"	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
HC7/31	145º 37' 30"	115.058	12,445.799	12,277.485	EAST BANK OF CREEK
HC7/32	146º 21' 00"	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
HC7/33	148º 28' 30"	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
HC7/34	149º 35' 45"	107.645	12,447.922	12,267.001	WEST BANK OF CREEK
HC7/35	151º 43' 30"	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
HC7/36	158º 35' 00"	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
HC7/37	159º 50' 30"	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
HC7/38	157º 37' 30"	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
HC7/39	159º 39' 00"	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
HC7/40	163º 53' 00"	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
HC7/41	167º 23' 30"	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
HC7/42	170º 40' 00"	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
HC7/43	168º 56' 00"	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
HC7/44	162º 57' 30"	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
HC7/45	146º 50' 00"	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
HC7/46	138º 59' 30"	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
HC7/47	122º 36' 00"	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
HC7/48	083º 11' 30"	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
HC7/49	059º 06' 30"	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
HC7/50	039º 04' 30"	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
HC7/51	033º 04' 00"	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
HC7/52	015º 58' 00"	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
HC7/53	353º 56' 00"	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
HC7/54	349º 30' 00"	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
HC7/55	346º 01' 00"	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
HC7/56	341º 19' 30"	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
HC7/57	339º 26' 45"	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
HC7/58	326º 02' 00"	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
HC7/59	323º 43' 30"	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
HC7/60	322º 33' 15"	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
HC7/61	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/62	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/63	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/64	065º 52' 00"	0.000	12,540.764	12,212.522	WEST BANK OF CREEK
HC7/65	196º 22' 00"	145.831	12,400.842	12,171.429	Western Edge of Alluvium
HC7/66	199º 03' 45"	122.928	12,424.577	12,172.374	Western Edge of Alluvium
HC7/67	207º 01' 00"	104.091	12,448.032	12,165.239	Western Edge of Alluvium
HC7/68	214º 44' 30"	93.852	12,463.643	12,159.038	Western Edge of Alluvium
HC7/69	249º 13' 30"	63.153	12,518.363	12,153.475	Western Edge of Alluvium
HC7/70	273º 09' 00"	61.217	12,544.128	12,151.397	Western Edge of Alluvium
HC7/71	293º 06' 30"	84.850	12,574.065	12,134.480	Western Edge of Alluvium
HC7/72	297º 55' 00"	101.140	12,588.116	12,123.152	Western Edge of Alluvium
HC7/73	297º 22' 00"	111.514	12,592.025	12,113.488	Western Edge of Alluvium
HC7/74	299º 43' 30"	127.073	12,603.771	12,102.170	Western Edge of Alluvium
HC7/75	304º 52' 00"	143.860	12,623.004	12,094.487	Western Edge of Alluvium
HC7/76	349º 31' 00"	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
HC7/77	003º 53' 30"	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
HC7/78	029º 35' 30"	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
HC7/79	055º 45' 00"	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium

HIGHWAY COPPER SURVEY

Co-ordinate Calculations

Station	True Bearing	True Distance	Northing	Easting	Description
HC7/80	081º 14' 30"	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
HC7/81	101º 59' 45"	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
HC7/82	122º 42' 30"	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
HC7/83	113º 34' 00"	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
HC2/1	132º 41' 00"	30.538	12,499.687	12,433.052	Cut Spoil Heap
HC2/2	111º 00' 15"	12.796	12,515.804	12,422.548	Cut Spoil Heap
HC2/3	073º 07' 30"	15.842	12,524.989	12,425.763	Cut Spoil Heap
HC2/4	019º 49' 45"	21.778	12,540.877	12,417.990	Cut Spoil Heap
HC2/5	355º 30' 00"	26.114	12,546.423	12,408.554	Cut Spoil Heap
HC2/6	027º 57' 30"	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
HC2/7	053º 10' 30"	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
HC2/8	047º 34' 30"	32.474	12,542.298	12,434.574	Cut Spoil Heap 2
HC2/9	060º 50' 45"	23.089	12,531.638	12,430.767	Cut Spoil Heap 2
HC13	177º 27' 30"	137.620	12,046.790	12,377.760	HC12-HC13
HC14	168º 20' 30"	104.960	11,943.995	12,398.969	HC13-HC14
HC15	116º 03' 00"	96.540	11,901.599	12,485.702	HC14-HC15
HC16	157º 28' 45"	132.252	11,779.432	12,536.357	HC15-HC16
HC17	114º 46' 15"	116.523	11,730.610	12,642.159	HC16-HC17
HC18	151º 44' 15"	100.559	11,642.039	12,689.775	HC17-HC18
HC19	167º 47' 15"	91.652	11,552.462	12,709.163	HC18-HC19
HC20	156º 59' 30"	247.541	11,324.613	12,805.918	HC19-HC20

H/WAY COPPER MAP 1

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	002	000	00	00		12,643.733	12,425.002	Starting Bearing
3	HC1	243	35	00	111.763	12,594.010	12,324.909	Highway Copper HC1
4	HC3	009	58	30	8.823	12,602.700	12,326.437	HC1-HC3
5	HC5	155	52	00	9.947	12,593.622	12,330.504	HC3-HC5
6	HC5/1	174	37	00	9.193	12,584.470	12,331.367	EDGE OF MULLOCK
7	HC5/2	011	08	45	7.484	12,600.965	12,331.951	EDGE OF MULLOCK
8	HC5/3	035	66	15	0.000	12,593.622	12,330.504	EDGE OF MULLOCK
9	HC5/4	099	25	30	3.386	12,593.068	12,333.845	EDGE OF MULLOCK
10	HC5/5	148	41	00	3.421	12,590.700	12,332.282	EDGE OF MULLOCK
11	HC5/6	236	15	30	6.616	12,589.947	12,325.003	EDGE OF MULLOCK
12	HC5/7	257	08	30	8.946	12,591.631	12,321.783	EDGE OF MULLOCK
13	HC5/8	287	00	00	11.105	12,596.869	12,319.885	EDGE OF MULLOCK
14	HC5/9	308	51	30	11.122	12,600.600	12,321.844	EDGE OF MULLOCK
15	HC5/10	326	15	00	10.341	12,602.220	12,324.759	END OF STOPE
16	HC5/11	334	41	00	8.970	12,601.731	12,326.669	END OF STOPE
17	HC5/12	022	32	00	8.941	12,601.881	12,333.931	ORE PILE
18	HC5/13	099	57	00	5.779	12,592.624	12,336.196	ORE PILE
19	HC5/14	071	34	30	5.183	12,595.260	12,335.422	SHAFT MULLOCK
20	HC5/15	169	01	00	5.256	12,588.462	12,331.506	SHAFT MULLOCK
21	HC5/16	139	35	00	7.392	12,587.994	12,335.297	SHAFT MULLOCK
22	HC5/17	142	06	00	13.936	12,582.625	12,339.065	SHAFT MULLOCK
23	HC5/18	158	02	30	16.025	12,578.760	12,336.497	SHAFT MULLOCK
24	HC5/19	180	03	00	14.219	12,579.403	12,330.492	SHAFT MULLOCK
25	HC5/20	195	53	45	11.236	12,582.816	12,327.427	SHAFT MULLOCK
26	HC5/21	200	31	00	6.443	12,587.588	12,328.246	EDGE OF SHAFT
27	HC5/22	161	23	00	6.702	12,587.271	12,332.644	EDGE OF SHAFT
28	HC5/23	147	16	00	11.076	12,584.305	12,336.493	EDGE OF SHAFT
29	HC5/24	163	06	45	13.055	12,581.130	12,334.297	EDGE OF SHAFT
30	HC5/25	183	22	30	10.345	12,583.295	12,329.895	EDGE OF SHAFT
31	HC5/26	165	55	00	10.054	12,583.870	12,332.951	CENTRE OF SHAFT
32	HC5/27	121	45	00	8.383	12,589.211	12,337.633	WASTE DUMP
33	HC5/28	127	15	00	11.440	12,586.698	12,339.611	WASTE DUMP

H/WAY COPPER MAP 1

	A	B	C	D	E	F	G	H
34	HC5/29	134	39	00	14.466	12,583.456	12,340.796	WASTE DUMP
35	HC5/30	081	18	30	12.437	12,595.502	12,342.798	WASTE DUMP 2
36	HC5/31	090	26	30	15.271	12,593.504	12,345.775	WASTE DUMP 2
37	HC5/32	097	55	30	13.723	12,591.730	12,344.096	WASTE DUMP 2
38	HC5/33	091	34	00	10.932	12,593.323	12,341.432	WASTE DUMP 2
39	HC5/34	154	44	00	34.699	12,562.243	12,345.315	PIT
40	HC5/35	154	55	00	36.275	12,560.768	12,345.883	PIT
41	HC5/36	157	02	30	36.319	12,560.180	12,344.671	PIT
42	HC5/37	157	10	00	34.526	12,561.802	12,343.902	PIT
43	HC5/38	152	09	15	34.066	12,563.501	12,346.416	EAST DUMP
44	HC5/39	149	57	30	36.471	12,562.051	12,348.763	EAST DUMP
45	HC5/40	152	55	15	38.320	12,559.503	12,347.948	EAST DUMP
46	HC5/41	153	56	45	35.742	12,561.512	12,346.203	EAST DUMP
47	HC5/42	159	30	30	33.345	12,562.387	12,342.177	WEST DUMP
48	HC5/43	161	02	30	37.686	12,557.980	12,342.748	WEST DUMP
49	HC5/44	163	32	00	35.251	12,559.817	12,340.496	WEST DUMP
50	HC5/45	163	42	45	25.378	12,569.263	12,337.622	PIT
51	HC5/46	163	57	00	27.244	12,567.440	12,338.037	PIT
52	HC5/47	165	08	30	27.469	12,567.072	12,337.548	PIT
53	HC5/48	171	54	00	25.646	12,568.232	12,334.118	PIT
54	HC5/49	141	57	00	49.695	12,554.489	12,361.134	WASTE
55	HC5/50	139	16	30	51.132	12,554.872	12,363.864	WASTE
56	HC5/51	141	34	30	53.280	12,551.881	12,363.617	WASTE
57	HC5/52	143	43	00	51.148	12,552.392	12,360.773	WASTE
58	HC5/53	137	16	00	58.784	12,550.444	12,370.394	ROAD
59	HC5/54	137	11	00	65.937	12,545.255	12,375.319	ROAD
60	HC5/55	141	51	00	67.810	12,540.297	12,372.392	ROAD
61	HC5/56	142	56	00	61.196	12,544.792	12,367.390	ROAD
62	HC6	155	52	00	84.873	12,516.167	12,365.206	HC5-HC6
63	HC7	245	52	00	129.282	12,540.764	12,212.522	HC5-HC7
64	HC8	335	52	00	146.079	12,726.933	12,270.778	HC5-HC8
65	HC9	065	52	00	89.772	12,630.326	12,412.430	HC5-HC9
66	HC6/1	019	48	45	75.058	12,586.782	12,390.646	North side of Track from HC6

H/WAY COPPER MAP 1

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	Observed Bearing			Distance		Slope		True bearing			True dist	Description
2	02	160	13	30	174.815	270	04	00	000	00	00	175.000	Back sight to 001
3	HC1	254	51	30	111.770	269	22	00	243	35	00	112.000	Highway Copper HC1
4	HC3	009	58	30	8.852	265	21	30	009	58	30	8.823	HC1-HC3
5	HC5	155	52	00	9.962	273	08	45	155	52	00	9.947	HC3-HC5
6	01	018	45	00	9.194	270	46	30	174	37	00	9.193	EDGE OF MULLOCK
7	02	035	16	45	7.484	270	26	30	011	08	45	7.484	EDGE OF MULLOCK
8	03	060	14	15	0.000	000	00	00	035	66	15	0.000	EDGE OF MULLOCK
9	04	123	33	30	3.388	267	53	00	099	25	30	3.386	EDGE OF MULLOCK
10	05	172	49	00	3.426	266	55	00	148	41	00	3.421	EDGE OF MULLOCK
11	06	260	23	30	6.627	266	43	30	236	15	30	6.616	EDGE OF MULLOCK
12	07	281	16	30	8.953	267	47	30	257	08	30	8.946	EDGE OF MULLOCK
13	08	311	08	00	11.107	268	52	00	287	00	00	11.105	EDGE OF MULLOCK
14	09	332	59	30	11.123	269	15	00	308	51	30	11.122	EDGE OF MULLOCK
15	10	350	23	00	10.342	269	20	00	326	15	00	10.341	END OF STOPE
16	11	358	49	00	8.970	269	29	30	334	41	00	8.970	END OF STOPE
17	12	004	40	00	8.941	269	29	30	022	32	00	8.941	ORE PILE
18	13	124	05	00	5.779	269	52	00	099	57	00	5.779	ORE PILE
19	14	095	42	30	5.183	269	52	00	071	34	30	5.183	SHAFT MULLOCK
20	15	193	09	00	5.261	267	24	00	169	01	00	5.256	SHAFT MULLOCK
21	16	163	43	00	7.394	268	41	00	139	35	00	7.392	SHAFT MULLOCK
22	17	166	14	00	13.939	268	49	00	142	06	00	13.936	SHAFT MULLOCK
23	18	182	16	30	16.029	268	44	00	158	02	30	16.025	SHAFT MULLOCK
24	19	204	11	00	14.231	267	41	00	180	03	00	14.219	SHAFT MULLOCK
25	20	220	01	45	11.246	267	37	30	195	53	45	11.236	SHAFT MULLOCK
26	21	224	39	00	6.451	267	05	30	200	31	00	6.443	EDGE OF SHAFT
27	22	185	31	00	6.703	270	52	00	161	23	00	6.702	EDGE OF SHAFT
28	23	171	24	00	11.092	273	07	00	147	16	00	11.076	EDGE OF SHAFT
29	24	187	14	45	13.065	272	17	30	163	06	45	13.055	EDGE OF SHAFT
30	25	207	30	30	10.359	273	01	30	183	22	30	10.345	EDGE OF SHAFT
31	26	190	03	00	10.116	263	39	00	165	55	00	10.054	CENTRE OF SHAFT
32	27	145	53	00	8.385	268	47	30	121	45	00	8.383	WASTE DUMP
33	28	151	23	00	11.442	268	55	30	127	15	00	11.440	WASTE DUMP

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	29	158	47	00	14.468	268	58	00	134	39	00	14.466	WASTE DUMP
35	30	105	26	30	12.437	269	51	30	081	18	30	12.437	WASTE DUMP 2
36	31	114	34	30	15.271	269	46	00	090	26	30	15.271	WASTE DUMP 2
37	32	122	03	30	13.724	269	30	00	097	55	30	13.723	WASTE DUMP 2
38	33	115	42	00	10.932	269	30	00	091	34	00	10.932	WASTE DUMP 2
39	34	178	52	00	34.707	268	45	30	154	44	00	34.699	PIT
40	35	179	03	00	36.284	268	43	30	154	55	00	36.275	PIT
41	36	181	10	30	36.334	268	21	30	157	02	30	36.319	PIT
42	37	181	18	00	34.538	268	28	30	157	10	00	34.526	PIT
43	38	176	17	15	34.070	269	09	00	152	09	15	34.066	EAST DUMP
44	39	174	05	30	36.475	269	08	00	149	57	30	36.471	EAST DUMP
45	40	177	03	15	38.325	269	03	00	152	55	15	38.320	EAST DUMP
46	41	178	04	45	35.748	268	59	00	153	56	45	35.742	EAST DUMP
47	42	183	38	30	33.353	268	43	30	159	30	30	33.345	WEST DUMP
48	43	185	10	30	37.698	268	34	00	161	02	30	37.686	WEST DUMP
49	44	187	40	00	35.262	268	34	00	163	32	00	35.251	WEST DUMP
50	45	187	50	45	25.385	268	36	30	163	42	45	25.378	PIT
51	46	187	65	00	27.251	268	42	00	163	57	00	27.244	PIT
52	47	189	16	30	27.476	268	43	30	165	08	30	27.469	PIT
53	48	196	02	00	25.653	268	41	30	171	54	00	25.646	PIT
54	49	166	05	00	49.700	269	09	00	141	57	00	49.695	WASTE
55	50	163	24	30	51.137	269	13	30	139	16	30	51.132	WASTE
56	51	165	42	30	53.286	269	09	30	141	34	30	53.280	WASTE
57	52	167	51	00	51.148	269	64	30	143	43	00	51.148	WASTE
58	53	161	24	00	58.789	269	13	00	137	16	00	58.784	ROAD
59	54	161	19	00	65.943	269	14	00	137	11	00	65.937	ROAD
60	55	165	59	00	67.818	269	06	00	141	51	00	67.810	ROAD
61	56	167	04	00	61.203	269	08	30	142	56	00	61.196	ROAD
62	HC6	180	00	00	84.900	268	33	30	155	52	00	84.873	HC5-HC6
63	HC7	270	00	00	129.419	267	22	00	245	52	00	129.282	HC5-HC7
64	HC8	000	00	00	146.079	270	00	00	335	52	00	146.079	HC5-HC8
65	HC9	090	00	00	89.776	270	34	00	065	52	00	89.772	HC5-HC9
66	HC6/1	019	50	15	75.072	271	06	30	019	48	45	75.058	North side of Track from HC6

H/WAY COPPER MAP 2

	A	B	C	D	E	F	G	H
1	HC6/2	018	40	00	67.072	12,579.711	12,386.673	North side of Track from HC6
2	HC6/3	016	51	15	59.024	12,572.656	12,382.319	North side of Track from HC6
3	HC6/4	013	46	30	48.147	12,562.930	12,376.670	North side of Track from HC6
4	HC6/5	010	26	30	39.959	12,555.465	12,372.448	North side of Track from HC6
5	HC6/6	005	16	15	31.867	12,547.900	12,368.133	North side of Track from HC6
6	HC6/7	353	41	45	22.063	12,538.097	12,362.783	North side of Track from HC6
7	HC6/8	335	39	15	15.774	12,530.539	12,358.703	North side of Track from HC6
8	HC6/9	304	56	30	12.540	12,523.350	12,354.926	North side of Track from HC6
9	HC6/10	269	20	15	14.509	12,516.000	12,350.698	North side of Track from HC6
10	HC6/11	249	11	00	20.101	12,509.024	12,346.417	North side of Track from HC6
11	HC6/12	237	45	15	26.822	12,501.856	12,342.520	North side of Track from HC6
12	HC6/13	231	06	00	34.421	12,494.552	12,338.418	North side of Track from HC6
13	HC6/14	226	39	30	42.125	12,487.255	12,334.569	North side of Track from HC6
14	HC6/15	215	49	30	41.247	12,482.724	12,341.063	South side of Track from HC6
15	HC6/16	220	04	30	25.834	12,496.399	12,348.574	South side of Track from HC6
16	HC6/17	224	41	30	17.902	12,503.441	12,352.615	South side of Track from HC6
17	HC6/18	239	37	00	9.884	12,511.168	12,356.679	South side of Track from HC6
18	HC6/19	303	09	30	4.830	12,518.809	12,361.162	South side of Track from HC6
19	HC6/20	005	59	30	12.369	12,528.469	12,366.497	South side of Track from HC6
20	HC6/21	016	19	30	19.716	12,535.088	12,370.747	South side of Track from HC6
21	HC6/22	019	32	15	27.914	12,542.474	12,374.541	South side of Track from HC6
22	HC6/23	022	54	30	40.335	12,553.321	12,380.906	South side of Track from HC6
23	HC6/24	023	11	00	49.189	12,561.384	12,384.570	South side of Track from HC6
24	HC6/25	025	09	45	63.884	12,573.989	12,392.368	South side of Track from HC6
25	HC6/26	025	57	00	74.144	12,582.836	12,397.650	South side of Track from HC6
26	HC6/27	037	44	30	49.498	12,555.309	12,395.503	Road Cutting Spoil Heap
27	HC6/28	032	21	30	41.542	12,551.259	12,387.439	Road Cutting Spoil Heap
28	HC6/29	057	09	30	32.732	12,533.919	12,392.706	Road Cutting Spoil Heap
29	HC6/30	092	39	45	36.525	12,514.471	12,401.691	Road Cutting Spoil Heap
30	HC6/31	103	54	00	46.991	12,504.879	12,410.821	Road Cutting Spoil Heap
31	HC6/32	111	04	45	68.757	12491.438	12429.362	Road Cutting Spoil Heap
32	HC6/33	105	56	30	74.678	12495.656	12437.012	Road Cutting Spoil Heap
33	HC10	155	52	00	190.017	12342.759	12442.896	HC6-HC10

H/WAY COPPER MAP 2

	A	B	C	D	E	F	G	H
34	HC11/1	310	37	15	92.376	12325.574	12300.418	EAST BANK OF CREEK
35	HC11/2	315	10	15	91.414	12330.264	12306.088	EAST BANK OF CREEK
36	HC11/3	313	16	45	82.435	12321.946	12310.521	EAST BANK OF CREEK
37	HC11/4	314	52	45	73.425	12317.242	12318.507	EAST BANK OF CREEK
38	HC11/5	318	28	0	78.445	12324.154	12318.522	EAST BANK OF CREEK
39	HC11/6	315	19	0	76.128	12319.56	12317.003	EAST BANK OF CREEK
40	HC11/7	310	42	0	61.175	12305.324	12324.156	EAST BANK OF CREEK
41	HC11/8	305	11	0	53.996	12296.545	12326.403	EAST BANK OF CREEK
42	HC11/9	296	10	45	50.906	12287.891	12324.851	EAST BANK OF CREEK
43	HC11/10	274	19	0	40.319	12268.467	12330.331	EAST BANK OF CREEK
44	HC11/11	255	00	00	40.708	12254.896	12331.214	EAST BANK OF CREEK
45	HC11/12	237	50	30	44.188	12241.913	12333.127	EAST BANK OF CREEK
46	HC11/13	229	20	00	53.943	12230.28	12329.619	EAST BANK OF CREEK
47	HC11/14	228	19	30	66.043	12221.52	12321.206	EAST BANK OF CREEK
48	HC11/15	223	21	30	72.623	12212.63	12320.675	EAST BANK OF CREEK
49	HC11/16	217	15	00	85.425	12197.434	12318.828	EAST BANK OF CREEK
50	HC11/17	212	41	30	99.84	12181.408	12316.61	EAST BANK OF CREEK
51	HC11/18	208	32	30	122.053	12158.213	12312.219	EAST BANK OF CREEK
52	HC11/19	207	23	30	128.472	12151.364	12311.429	EAST BANK OF CREEK
53	HC11/20	208	31	30	130.553	12150.727	12308.191	WEST BANK OF CREEK
54	HC11/21	212	16	15	107.35	12174.664	12313.219	WEST BANK OF CREEK
55	HC11/22	215	45	00	98.568	12185.437	12312.947	WEST BANK OF CREEK
56	HC11/23	222	24	15	78.957	12207.13	12317.29	WEST BANK OF CREEK
57	HC11/24	229	48	30	68.019	12221.536	12318.576	WEST BANK OF CREEK
58	HC11/25	231	11	00	59.17	12228.343	12324.433	WEST BANK OF CREEK
59	HC11/26	239	43	00	50.802	12239.814	12326.666	WEST BANK OF CREEK
60	HC11/27	255	59	30	44.746	12254.601	12327.12	WEST BANK OF CREEK
61	HC11/28	274	01	00	44.141	12268.524	12326.503	WEST BANK OF CREEK
62	HC11/29	190	01	00	51.051	12215.159	12361.656	WEST BANK OF CREEK
63	HC11/30	310	49	00	64.874	12307.837	12321.438	WEST BANK OF CREEK
64	HC11/31	311	21	15	82.227	12319.76	12308.813	WEST BANK OF CREEK
65	HC11/32	312	57	30	90.132	12326.854	12304.572	WEST BANK OF CREEK
66	HC11/33	309	50	30	90.781	12323.593	12300.832	WEST BANK OF CREEK

	A	B	C	D	E	F	G	H
67	HC11/34	342	21	30	68.629	12330.833	12349.736	East Edge of Alluvium
68	HC11/35	331	40	15	40.52	12301.1	12351.307	East Edge of Alluvium
69	HC11/36	303	16	45	30.02	12281.905	12345.439	East Edge of Alluvium
70	HC11/37	262	43	00	27.96	12261.888	12342.801	East Edge of Alluvium
71	HC11/38	236	07	15	31.866	12247.669	12344.08	East Edge of Alluvium
72	HC11/39	223	09	30	42.87	12234.16	12341.211	East Edge of Alluvium
73	HC11/40	223	12	00	58.494	12222.792	12330.493	East Edge of Alluvium
74	HC11/41	214	51	00	70.206	12207.817	12330.417	East Edge of Alluvium
75	HC11/42	211	00	30	73.849	12202.137	12332.491	East Edge of Alluvium
76	HC11/43	361	47	30	4.478	12269.908	12370.675	FAULT ZONE CONTROL
77	HC11/44	178	18	00	4.793	12260.641	12370.677	FAULT ZONE CONTROL
78	HC11/45	178	35	45	11.69	12253.746	12370.822	FAULT ZONE CONTROL
79	HC11/46	178	57	00	18.472	12246.963	12370.874	FAULT ZONE CONTROL
80	HC11/47	179	34	30	24.795	12240.638	12370.719	FAULT ZONE CONTROL
81	HC11/48	182	41	00	48.19	12217.295	12368.279	FAULT ZONE CONTROL
82	HC11/49	181	21	00	65.125	12200.325	12369.001	FAULT ZONE CONTROL
83	HC12/1	283	31	30	34.184	12192.269	12338.421	EDGE OF ALLUVIUM
84	HC12/2	311	53	00	18.58	12196.679	12357.823	EDGE OF ALLUVIUM
85	HC12/3	345	41	00	12.915	12196.788	12368.463	EDGE OF ALLUVIUM
86	HC12/4	305	56	15	14.055	12192.523	12360.277	EDGE OF ALLUVIUM
87	HC12/5	289	38	30	11.671	12188.197	12360.665	EDGE OF ALLUVIUM
88	HC12/6	262	21	30	30.621	12180.202	12341.307	EDGE OF ALLUVIUM
89	HC12/7	238	26	30	29.582	12168.792	12346.45	EDGE OF ALLUVIUM
90	HC12/8	203	05	30	33.023	12153.897	12358.705	EDGE OF ALLUVIUM
91	HC12/9	182	40	00	41.206	12143.113	12369.74	EDGE OF ALLUVIUM
92	HC12/10	176	28	30	56.902	12127.48	12375.155	EDGE OF ALLUVIUM
93	HC12/11	171	21	00	62.92	12122.069	12381.12	EDGE OF ALLUVIUM
94	HC12/12	162	26	00	84.913	12103.321	12397.285	EDGE OF ALLUVIUM
95	HC12/13	156	41	30	102.22	12090.396	12412.103	EDGE OF ALLUVIUM
96	HC12/14	160	27	30	96.792	12093.057	12404.033	EDGE OF ALLUVIUM
97	HC12/15	162	24	00	87.128	12101.224	12398.002	EDGE OF ALLUVIUM
98	HC12/16	171	25	30	76.012	12109.112	12382.99	EDGE OF ALLUVIUM
99	HC12/17	179	43	00	65.169	12119.106	12371.979	EDGE OF ALLUVIUM

	A	B	C	D	E	F	G	H
100	HC12/18	185	52	00	52.034	12132.513	12366.338	EDGE OF ALLUVIUM
101	HC12/19	187	24	30	43.609	12141.029	12366.034	EDGE OF ALLUVIUM
102	HC12/20	207	65	00	42.768	12146.541	12351.523	EDGE OF ALLUVIUM
103	HC12/21	239	59	30	69.639	12149.446	12311.353	EAST BANK OF CREEK
104	HC12/22	224	35	00	108.552	12106.96	12295.459	EAST BANK OF CREEK
105	HC12/23	223	25	00	123.519	12094.553	12286.762	EAST BANK OF CREEK
106	HC12/24	223	12	00	140.153	12082.107	12275.716	EAST BANK OF CREEK
107	HC12/25	225	03	30	137.549	12087.111	12274.296	WEST BANK OF CREEK
108	HC12/26	235	57	45	80.379	12139.283	12305.049	WEST BANK OF CREEK
109	HC12/27	178	20	30	27.735	12156.551	12372.459	1
110	HC12/28	161	32	30	42.65	12143.818	12385.16	2
111	HC12/29	173	54	30	38.114	12146.375	12375.701	SMALL CREEK
112	HC12/30	140	54	00	58.661	12138.75	12408.653	SMALL CREEK

H/WAY COPPER MAP 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	HC6/2	018	41	30	67.085	271	07	00	018	40	00	67.072	North side of Track from HC6
2	HC6/3	016	52	45	59.035	271	05	00	016	51	15	59.024	North side of Track from HC6
3	HC6/4	013	48	00	48.155	271	02	00	013	46	30	48.147	North side of Track from HC6
4	HC6/5	010	28	00	39.963	270	50	00	010	26	30	39.959	North side of Track from HC6
5	HC6/6	005	17	45	31.869	270	40	30	005	16	15	31.867	North side of Track from HC6
6	HC6/7	353	43	15	22.063	270	11	00	353	41	45	22.063	North side of Track from HC6
7	HC6/8	355	40	45	15.775	269	23	30	335	39	15	15.774	North side of Track from HC6
8	HC6/9	304	58	00	12.541	269	13	30	304	56	30	12.540	North side of Track from HC6
9	HC6/10	269	21	45	14.522	267	35	00	269	20	15	14.509	North side of Track from HC6
10	HC6/11	249	12	30	20.118	267	38	00	249	11	00	20.101	North side of Track from HC6
11	HC6/12	237	46	45	26.845	267	38	00	237	45	15	26.822	North side of Track from HC6
12	HC6/13	231	07	30	34.447	267	46	00	231	06	00	34.421	North side of Track from HC6
13	HC6/14	226	41	00	42.159	267	42	00	226	39	30	42.125	North side of Track from HC6
14	HC6/15	215	51	00	41.274	267	55	15	215	49	30	41.247	South side of Track from HC6
15	HC6/16	220	06	00	25.859	267	27	45	220	04	30	25.834	South side of Track from HC6
16	HC6/17	224	43	00	17.920	267	27	45	224	41	30	17.902	South side of Track from HC6
17	HC6/18	239	38	30	9.912	265	43	30	239	37	00	9.884	South side of Track from HC6
18	HC6/19	303	11	00	4.850	264	44	00	303	09	30	4.830	South side of Track from HC6
19	HC6/20	006	01	00	12.369	269	36	00	005	59	30	12.369	South side of Track from HC6
20	HC6/21	016	21	00	19.717	270	41	30	016	19	30	19.716	South side of Track from HC6
21	HC6/22	019	34	15	27.917	270	50	00	019	32	15	27.914	South side of Track from HC6
22	HC6/23	022	56	00	40.341	271	00	00	022	54	30	40.335	South side of Track from HC6
23	HC6/24	023	12	30	49.196	270	57	00	023	11	00	49.189	South side of Track from HC6
24	HC6/25	025	11	15	63.895	271	04	00	025	09	45	63.884	South side of Track from HC6
25	HC6/26	025	58	30	74.157	271	04	00	025	57	00	74.144	South side of Track from HC6
26	HC6/27	037	46	00	49.507	271	07	00	037	44	30	49.498	Road Cutting Spoil Heap
27	HC6/28	032	23	00	41.550	271	07	00	032	21	30	41.542	Road Cutting Spoil Heap
28	HC6/29	057	11	00	32.738	271	05	00	057	09	30	32.732	Road Cutting Spoil Heap
29	HC6/30	092	41	15	36.530	270	56	30	092	39	45	36.525	Road Cutting Spoil Heap
30	HC6/31	103	55	30	46.996	270	51	00	103	54	00	46.991	Road Cutting Spoil Heap
31	HC6/32	111	06	15	68.764	270	48	30	111	04	45	68.757	Road Cutting Spoil Heap
32	HC6/33	105	58	00	74.687	270	54	15	105	56	30	74.678	Road Cutting Spoil Heap
33	HC10	180	00	00	190.017	270	06	00	155	52	00	190.017	HC6–HC10

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	HC11/1	267	31	15	92.389	269	11	0	310	37	15	92.376	EAST BANK OF CREEK
35	HC11/2	272	4	15	91.427	269	27	0	315	10	15	91.414	EAST BANK OF CREEK
36	HC11/3	270	10	45	82.446	269	8	30	313	16	45	82.435	EAST BANK OF CREEK
37	HC11/4	271	46	45	73.467	268	52	15	314	52	45	73.425	EAST BANK OF CREEK
38	HC11/5	275	22	0	78.49	268	51	0	318	28	0	78.445	EAST BANK OF CREEK
39	HC11/6	272	13	0	76.172	268	50	0	315	19	0	76.128	EAST BANK OF CREEK
40	HC11/7	267	36	0	61.21	268	43	30	310	42	0	61.175	EAST BANK OF CREEK
41	HC11/8	262	5	0	54.068	267	58	0	305	11	0	53.996	EAST BANK OF CREEK
42	HC11/9	253	4	45	50.913	269	0	0	296	10	45	50.906	EAST BANK OF CREEK
43	HC11/10	231	13	0	40.372	267	46	0	274	19	0	40.319	EAST BANK OF CREEK
44	HC11/11	211	54	00	40.732	268	38	00	255	00	00	40.708	EAST BANK OF CREEK
45	HC11/12	194	44	30	44.213	268	46	15	237	50	30	44.188	EAST BANK OF CREEK
46	HC11/13	186	14	00	53.950	269	03	00	229	20	00	53.943	EAST BANK OF CREEK
47	HC11/14	185	13	30	66.081	268	43	00	228	19	30	66.043	EAST BANK OF CREEK
48	HC11/15	180	15	30	72.665	268	52	00	223	21	30	72.623	EAST BANK OF CREEK
49	HC11/16	174	09	00	85.437	269	07	00	217	15	00	85.425	EAST BANK OF CREEK
50	HC11/17	169	35	30	99.854	269	26	00	212	41	30	99.840	EAST BANK OF CREEK
51	HC11/18	165	26	30	122.069	269	23	30	208	32	30	122.053	EAST BANK OF CREEK
52	HC11/19	164	17	30	128.490	269	25	00	207	23	30	128.472	EAST BANK OF CREEK
53	HC11/20	165	25	30	130.571	269	29	00	208	31	30	130.553	WEST BANK OF CREEK
54	HC11/21	169	10	15	107.365	269	19	00	212	16	15	107.350	WEST BANK OF CREEK
55	HC11/22	172	39	00	98.582	269	22	00	215	45	00	98.568	WEST BANK OF CREEK
56	HC11/23	179	18	15	78.968	269	11	00	222	24	15	78.957	WEST BANK OF CREEK
57	HC11/24	186	42	30	68.058	268	45	30	229	48	30	68.019	WEST BANK OF CREEK
58	HC11/25	188	05	00	59.204	268	26	00	231	11	00	59.170	WEST BANK OF CREEK
59	HC11/26	196	37	00	50.831	268	53	00	239	43	00	50.802	WEST BANK OF CREEK
60	HC11/27	212	53	30	44.772	268	39	00	255	59	30	44.746	WEST BANK OF CREEK
61	HC11/28	230	55	0	44.166	268	35	30	274	1	0	44.141	WEST BANK OF CREEK
62	HC11/29	146	55	0	51.081	268	50	0	190	1	0	51.051	WEST BANK OF CREEK
63	HC11/30	267	43	0	64.912	268	50	0	310	49	0	64.874	WEST BANK OF CREEK
64	HC11/31	268	15	15	82.274	268	54	30	311	21	15	82.227	WEST BANK OF CREEK
65	HC11/32	269	51	30	90.144	269	20	30	312	57	30	90.132	WEST BANK OF CREEK
66	HC11/33	266	44	30	90.793	269	03	30	309	50	30	90.781	WEST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	HC11/34	299	15	30	68.638	269	46	15	342	21	30	68.629	East Edge of Alluvium
68	HC11/35	288	34	15	40.526	269	34	15	331	40	15	40.520	East Edge of Alluvium
69	HC11/36	260	10	45	30.037	268	32	30	303	16	45	30.020	East Edge of Alluvium
70	HC11/37	219	37	00	27.976	268	12	00	262	43	00	27.960	East Edge of Alluvium
71	HC11/38	193	01	15	31.908	267	59	30	236	07	15	31.866	East Edge of Alluvium
72	HC11/39	180	03	30	42.895	268	20	00	223	09	30	42.870	East Edge of Alluvium
73	HC11/40	180	06	00	58.528	268	43	00	223	12	00	58.494	East Edge of Alluvium
74	HC11/41	171	45	00	70.216	269	04	00	214	51	00	70.206	East Edge of Alluvium
75	HC11/42	167	54	30	73.859	269	09	00	211	00	30	73.849	East Edge of Alluvium
76	HC11/43	318	41	30	4.484	267	36	15	361	47	30	4.478	FAULT ZONE CONTROL
77	HC11/44	135	12	00	4.794	269	17	00	178	18	00	4.793	FAULT ZONE CONTROL
78	HC11/45	135	29	45	11.690	270	51	30	178	35	45	11.690	FAULT ZONE CONTROL
79	HC11/46	135	51	00	18.472	270	46	30	178	57	00	18.472	FAULT ZONE CONTROL
80	HC11/47	136	28	30	24.795	270	32	15	179	34	30	24.795	FAULT ZONE CONTROL
81	HC11/48	139	35	00	48.190	270	21	00	182	41	00	48.190	FAULT ZONE CONTROL
82	HC11/49	138	15	00	65.134	269	58	30	181	21	00	65.125	FAULT ZONE CONTROL
83	HC12/1	284	19	00	34.229	267	53	00	283	31	30	34.184	EDGE OF ALLUVIUM
84	HC12/2	312	40	30	18.583	269	52	15	311	53	00	18.580	EDGE OF ALLUVIUM
85	HC12/3	346	28	30	12.917	271	50	00	345	41	00	12.915	EDGE OF ALLUVIUM
86	HC12/4	306	43	45	14.057	269	49	30	305	56	15	14.055	EDGE OF ALLUVIUM
87	HC12/5	470	26	00	11.678	268	58	30	289	38	30	11.671	EDGE OF ALLUVIUM
88	HC12/6	263	09	00	30.662	267	50	00	262	21	30	30.621	EDGE OF ALLUVIUM
89	HC12/7	239	14	00	29.621	267	53	00	238	26	30	29.582	EDGE OF ALLUVIUM
90	HC12/8	203	53	00	33.067	267	22	00	203	05	30	33.023	EDGE OF ALLUVIUM
91	HC12/9	183	27	30	41.230	268	13	00	182	40	00	41.206	EDGE OF ALLUVIUM
92	HC12/10	177	16	00	56.910	269	06	00	176	28	30	56.902	EDGE OF ALLUVIUM
93	HC12/11	172	08	30	62.929	269	00	00	171	21	00	62.920	EDGE OF ALLUVIUM
94	HC12/12	163	13	30	84.925	269	52	00	162	26	00	84.913	EDGE OF ALLUVIUM
95	HC12/13	157	29	00	102.220	270	06	00	156	41	30	102.220	EDGE OF ALLUVIUM
96	HC12/14	161	15	00	96.792	270	06	30	160	27	30	96.792	EDGE OF ALLUVIUM
97	HC12/15	163	11	30	87.140	269	58	00	162	24	00	87.128	EDGE OF ALLUVIUM
98	HC12/16	172	13	00	76.022	269	39	00	171	25	30	76.012	EDGE OF ALLUVIUM
99	HC12/17	180	30	30	65.178	269	30	00	179	43	00	65.169	EDGE OF ALLUVIUM

H/WAY COPPER MAP 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
100	HC12/18	186	39	30	52.064	268	55	00	185	52	00	52.034	EDGE OF ALLUVIUM
101	HC12/19	188	12	00	43.634	268	22	00	187	24	30	43.609	EDGE OF ALLUVIUM
102	HC12/20	208	52	30	42.793	268	05	00	207	65	00	42.768	EDGE OF ALLUVIUM
103	HC12/21	240	47	00	69.679	268	35	00	239	59	30	69.639	EAST BANK OF CREEK
104	HC12/22	225	22	30	108.567	269	02	00	224	35	00	108.552	EAST BANK OF CREEK
105	HC12/23	224	12	30	123.536	269	13	30	223	25	00	123.519	EAST BANK OF CREEK
106	HC12/24	223	59	30	140.172	269	17	00	223	12	00	140.153	EAST BANK OF CREEK
107	HC12/25	225	51	00	137.568	269	19	00	225	03	30	137.549	WEST BANK OF CREEK
108	HC12/26	236	45	15	80.425	268	43	30	235	57	45	80.379	WEST BANK OF CREEK
109	HC12/27	179	08	00	27.735	270	34	00	178	20	30	27.735	1
110	HC12/28	162	20	00	42.675	268	56	30	161	32	30	42.650	2
111	HC12/29	174	42	00	38.136	268	02	30	173	54	30	38.114	SMALL CREEK
112	HC12/30	141	41	30	58.661	270	35	00	140	54	00	58.661	SMALL CREEK

H/WAY COPPER MAP 3

	A	B	C	D	E	F	G	H
1	Station	True bearing			True dist	Northing	Easting	Description
2	HC7	000	00	00		12,540.764	12,212.522	HC7
3	HC7/1	327	15	00	78.470	12,606.760	12,170.072	EAST BANK OF CREEK
4	HC7/2	327	22	00	61.080	12,592.201	12,179.584	EAST BANK OF CREEK
5	HC7/3	331	42	30	53.254	12,587.656	12,187.282	EAST BANK OF CREEK
6	HC7/4	342	43	00	67.430	12,605.149	12,192.489	EAST BANK OF CREEK
7	HC7/5	341	30	30	74.198	12,611.131	12,188.989	EAST BANK OF CREEK
8	HC7/6	347	32	00	77.670	12,616.603	12,195.755	EAST BANK OF CREEK
9	HC7/7	354	40	30	77.814	12,618.242	12,205.300	EAST BANK OF CREEK
10	HC7/8	358	59	30	71.725	12,612.478	12,211.260	EAST BANK OF CREEK
11	HC7/9	374	34	00	61.842	12,600.618	12,228.076	EAST BANK OF CREEK
12	HC7/10	039	11	30	57.479	12,585.312	12,248.844	EAST BANK OF CREEK
13	HC7/11	061	15	00	48.041	12,563.871	12,254.641	EAST BANK OF CREEK
14	HC7/12	083	56	00	48.159	12,545.853	12,260.411	EAST BANK OF CREEK
15	HC7/13	097	42	00	43.480	12,534.938	12,255.610	EAST BANK OF CREEK
16	HC7/14	115	18	00	44.003	12,521.959	12,252.304	EAST BANK OF CREEK
17	HC7/15	132	14	30	49.261	12,507.648	12,248.991	EAST BANK OF CREEK
18	HC7/16	138	53	00	58.118	12,496.979	12,250.740	EAST BANK OF CREEK
19	HC7/17	148	37	00	64.895	12,485.363	12,246.317	EAST BANK OF CREEK
20	HC7/18	154	48	00	69.952	12,477.469	12,242.306	EAST BANK OF CREEK
21	HC7/19	159	45	45	75.173	12,470.231	12,238.525	EAST BANK OF CREEK
22	HC7/20	163	42	30	84.511	12,459.646	12,236.230	EAST BANK OF CREEK
23	HC7/21	167	59	30	114.086	12,429.174	12,236.258	EAST BANK OF CREEK
24	HC7/22	168	27	30	123.892	12,419.377	12,237.310	EAST BANK OF CREEK
25	HC7/23	167	50	30	126.234	12,417.361	12,239.109	EAST BANK OF CREEK
26	HC7/24	164	37	00	128.671	12,416.703	12,246.655	EAST BANK OF CREEK
27	HC7/25	162	40	00	123.218	12,423.141	12,249.232	EAST BANK OF CREEK
28	HC7/26	162	41	15	111.121	12,434.677	12,245.590	EAST BANK OF CREEK
29	HC7/27	161	12	30	100.607	12,445.520	12,244.930	EAST BANK OF CREEK
30	HC7/28	156	09	00	100.776	12,448.593	12,253.270	EAST BANK OF CREEK
31	HC7/29	150	05	00	100.923	12,453.289	12,262.856	EAST BANK OF CREEK
32	HC7/30	147	31	30	103.474	12,453.470	12,268.080	EAST BANK OF CREEK
33	HC7/31	145	37	30	115.058	12,445.799	12,277.485	EAST BANK OF CREEK

	A	B	C	D	E	F	G	H
34	Station	True bearing			True dist	Northing	Easting	Description
35	HC7/32	146	21	00	125.361	12,436.409	12,281.987	EAST BANK OF CREEK
36	HC7/32	148	28	30	122.832	12,436.060	12,276.747	WEST BANK OF CREEK
37	HC7/33	149	35	45	107.645	12,447.922	12,267.001	WEST BANK OF CREEK
38	HC7/34	151	43	30	104.958	12,448.329	12,262.241	WEST BANK OF CREEK
39	HC7/35	158	35	00	104.870	12,443.135	12,250.815	WEST BANK OF CREEK
40	HC7/36	159	50	30	109.724	12,437.761	12,250.335	WEST BANK OF CREEK
41	HC7/37	157	37	30	115.074	12,434.353	12,256.327	WEST BANK OF CREEK
42	HC7/38	159	39	00	125.901	12,422.721	12,256.305	WEST BANK OF CREEK
43	HC7/39	163	53	00	134.108	12,411.926	12,249.750	WEST BANK OF CREEK
44	HC7/40	167	23	30	137.798	12,406.289	12,242.601	WEST BANK OF CREEK
45	HC7/41	170	40	00	129.574	12,412.905	12,233.536	WEST BANK OF CREEK
46	HC7/42	168	56	00	105.538	12,437.188	12,232.780	WEST BANK OF CREEK
47	HC7/43	162	57	30	72.744	12,471.214	12,233.841	WEST BANK OF CREEK
48	HC7/44	146	50	00	58.592	12,491.717	12,244.576	WEST BANK OF CREEK
49	HC7/45	138	59	30	49.662	12,503.288	12,245.109	WEST BANK OF CREEK
50	HC7/46	122	36	00	40.396	12,519.000	12,246.554	WEST BANK OF CREEK
51	HC7/47	083	11	30	43.887	12,545.966	12,256.099	WEST BANK OF CREEK
52	HC7/48	059	06	30	44.411	12,563.565	12,250.633	WEST BANK OF CREEK
53	HC7/49	039	04	30	53.233	12,582.090	12,246.077	WEST BANK OF CREEK
54	HC7/50	033	04	00	54.765	12,586.659	12,242.403	WEST BANK OF CREEK
55	HC7/51	015	58	00	57.710	12,596.248	12,228.397	WEST BANK OF CREEK
56	HC7/52	353	56	00	73.925	12,614.275	12,204.709	WEST BANK OF CREEK
57	HC7/53	349	30	00	72.251	12,611.805	12,199.355	WEST BANK OF CREEK
58	HC7/54	346	01	00	65.198	12,604.030	12,196.768	WEST BANK OF CREEK
59	HC7/55	341	19	30	57.640	12,595.369	12,194.066	WEST BANK OF CREEK
60	HC7/56	339	26	45	45.620	12,583.480	12,196.505	WEST BANK OF CREEK
61	HC7/57	326	02	00	46.135	12,579.026	12,186.746	WEST BANK OF CREEK
62	HC7/58	323	43	30	65.677	12,593.712	12,173.663	WEST BANK OF CREEK
63	HC7/59	322	33	15	86.878	12,609.739	12,159.699	WEST BANK OF CREEK
64	HC7/60	196	22	00	145.831	12,400.842	12,171.429	Western Edge of Alluvium
65	HC7/61	199	03	45	122.928	12,424.577	12,172.374	Western Edge of Alluvium
66	HC7/62	207	01	00	104.091	12,448.032	12,165.239	Western Edge of Alluvium

	A	B	C	D	E	F	G	H
67	Station	True bearing			True dist	Northing	Easting	Description
68	HC7/63	214	44	30	93.852	12,463.643	12,159.038	Western Edge of Alluvium
69	HC7/64	249	13	30	63.153	12,518.363	12,153.475	Western Edge of Alluvium
70	HC7/65	273	09	00	61.217	12,544.128	12,151.397	Western Edge of Alluvium
71	HC7/66	293	06	30	84.850	12,574.065	12,134.480	Western Edge of Alluvium
72	HC7/67	297	55	00	101.140	12,588.116	12,123.152	Western Edge of Alluvium
73	HC7/68	297	22	00	111.514	12,592.025	12,113.488	Western Edge of Alluvium
74	HC7/69	299	43	30	127.073	12,603.771	12,102.170	Western Edge of Alluvium
75	HC7/70	304	52	00	143.860	12,623.004	12,094.487	Western Edge of Alluvium
76	HC7/71	349	31	00	87.234	12,626.542	12,196.650	Eastern Edge of Alluvium
77	HC7/72	003	53	30	73.563	12,614.157	12,217.515	Eastern Edge of Alluvium
78	HC7/73	029	35	30	64.602	12,596.939	12,244.423	Eastern Edge of Alluvium
79	HC7/74	055	45	00	54.726	12,571.564	12,257.758	Eastern Edge of Alluvium
80	HC7/75	081	14	30	54.264	12,549.026	12,266.153	Eastern Edge of Alluvium
81	HC7/76	101	59	45	53.676	12,529.608	12,265.026	Eastern Edge of Alluvium
82	HC7/77	122	42	30	70.439	12,502.701	12,271.792	Eastern Edge of Alluvium
83	HC7/78	113	34	00	111.628	12,496.133	12,314.840	Eastern Edge of Alluvium
84	HC2/1	132	41	0	30.538	12499.687	12433.052	Cut Spoil Heap
85	HC2/2	111	0	15	12.796	12515.804	12422.548	Cut Spoil Heap
86	HC2/3	73	7	30	15.842	12524.989	12425.763	Cut Spoil Heap
87	HC2/4	019	49	45	21.778	12,540.877	12,417.990	Cut Spoil Heap
88	HC2/5	355	30	00	26.114	12,546.423	12,408.554	Cut Spoil Heap
89	HC2/6	027	57	30	20.249	12,538.276	12,420.096	Cut Spoil Heap 2
90	HC2/7	053	10	30	28.136	12,537.254	12,433.125	Cut Spoil Heap 2
91	HC2/8	047	34	30	32.474	12,542.298	12,434.574	Cut Spoil Heap 2
92	HC2/9	060	50	45	23.089	12,531.638	12,430.767	Cut Spoil Heap 2

	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
2	HC7	000	00	00					065	52	00		Starting Bearing
3	HC7/1	261	23	00	78.470	270	01	00	327	15	00	78.470	EAST BANK OF CREEK
4	HC7/2	261	30	00	61.088	269	52	30	327	22	00	61.080	EAST BANK OF CREEK
5	HC7/3	265	50	30	53.261	269	53	30	331	42	30	53.254	EAST BANK OF CREEK
6	HC7/4	276	51	00	67.439	269	48	30	342	43	00	67.430	EAST BANK OF CREEK
7	HC7/5	279	38	30	74.208	269	42	30	341	30	30	74.198	EAST BANK OF CREEK
8	HC7/6	281	40	00	77.681	269	32	00	347	32	00	77.670	EAST BANK OF CREEK
9	HC7/7	288	48	30	77.825	269	59	00	354	40	30	77.814	EAST BANK OF CREEK
10	HC7/8	293	07	30	71.735	269	54	00	358	59	30	71.725	EAST BANK OF CREEK
11	HC7/9	308	42	00	61.842	270	18	00	374	34	00	61.842	EAST BANK OF CREEK
12	HC7/10	333	19	30	57.479	270	19	00	039	11	30	57.479	EAST BANK OF CREEK
13	HC7/11	355	23	00	48.048	269	56	00	061	15	00	48.041	EAST BANK OF CREEK
14	HC7/12	018	04	00	48.159	270	31	00	083	56	00	48.159	EAST BANK OF CREEK
15	HC7/13	031	50	00	43.480	270	12	30	097	42	00	43.480	EAST BANK OF CREEK
16	HC7/14	049	26	00	44.003	270	33	00	115	18	00	44.003	EAST BANK OF CREEK
17	HC7/15	066	22	30	49.261	270	18	30	132	14	30	49.261	EAST BANK OF CREEK
18	HC7/16	073	01	00	58.118	270	27	30	138	53	00	58.118	EAST BANK OF CREEK
19	HC7/17	082	45	00	64.895	270	11	30	148	37	00	64.895	EAST BANK OF CREEK
20	HC7/18	088	56	00	69.952	270	21	30	154	48	00	69.952	EAST BANK OF CREEK
21	HC7/19	093	53	45	75.173	270	16	30	159	45	45	75.173	EAST BANK OF CREEK
22	HC7/20	097	50	30	84.511	270	14	00	163	42	30	84.511	EAST BANK OF CREEK
23	HC7/21	102	07	30	114.086	270	10	00	167	59	30	114.086	EAST BANK OF CREEK
24	HC7/22	102	35	30	123.892	270	03	00	168	27	30	123.892	EAST BANK OF CREEK
25	HC7/23	101	58	30	126.234	270	00	30	167	50	30	126.234	EAST BANK OF CREEK
26	HC7/24	098	45	00	128.671	270	02	30	164	37	00	128.671	EAST BANK OF CREEK
27	HC7/25	096	48	00	123.218	270	06	00	162	40	00	123.218	EAST BANK OF CREEK
28	HC7/26	096	49	15	111.121	270	07	00	162	41	15	111.121	EAST BANK OF CREEK
29	HC7/27	095	20	30	100.607	270	06	30	161	12	30	100.607	EAST BANK OF CREEK
30	HC7/28	090	17	00	100.776	270	02	00	156	09	00	100.776	EAST BANK OF CREEK
31	HC7/29	084	13	00	100.923	270	00	00	150	05	00	100.923	EAST BANK OF CREEK
32	HC7/30	081	39	30	103.474	270	00	30	147	31	30	103.474	EAST BANK OF CREEK
33	HC7/31	079	45	30	115.058	270	01	00	145	37	30	115.058	EAST BANK OF CREEK

	I	J	K	L	M	N	O	P	Q	R	S	T	U
34	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
35	HC7/32	080	29	00	125.361	270	00	00	146	21	00	125.361	EAST BANK OF CREEK
36	HC7/32	082	36	30	122.832	270	01	00	148	28	30	122.832	WEST BANK OF CREEK
37	HC7/33	083	43	45	107.645	270	02	30	149	35	45	107.645	EAST BANK OF CREEK
38	HC7/34	085	51	30	104.972	269	59	00	151	43	30	104.958	EAST BANK OF CREEK
39	HC7/35	092	43	00	104.870	270	01	00	158	35	00	104.870	EAST BANK OF CREEK
40	HC7/36	093	58	30	109.724	270	01	30	159	50	30	109.724	EAST BANK OF CREEK
41	HC7/37	091	45	30	115.074	270	08	00	157	37	30	115.074	EAST BANK OF CREEK
42	HC7/38	093	47	00	125.901	270	09	00	159	39	00	125.901	EAST BANK OF CREEK
43	HC7/39	098	01	00	134.108	270	09	30	163	53	00	134.108	EAST BANK OF CREEK
44	HC7/40	101	31	30	137.798	270	08	30	167	23	30	137.798	EAST BANK OF CREEK
45	HC7/41	104	48	00	129.574	270	11	00	170	40	00	129.574	EAST BANK OF CREEK
46	HC7/42	103	04	00	105.538	270	02	00	168	56	00	105.538	EAST BANK OF CREEK
47	HC7/43	097	05	30	72.744	270	07	30	162	57	30	72.744	EAST BANK OF CREEK
48	HC7/44	080	58	00	58.592	270	19	00	146	50	00	58.592	EAST BANK OF CREEK
49	HC7/45	073	07	30	49.662	270	18	30	138	59	30	49.662	EAST BANK OF CREEK
50	HC7/46	056	44	00	40.396	270	29	00	122	36	00	40.396	EAST BANK OF CREEK
51	HC7/47	017	19	30	43.887	270	21	00	083	11	30	43.887	EAST BANK OF CREEK
52	HC7/48	353	14	30	44.411	270	26	00	059	06	30	44.411	EAST BANK OF CREEK
53	HC7/49	333	12	30	53.233	270	00	00	039	04	30	53.233	EAST BANK OF CREEK
54	HC7/50	327	12	00	54.765	270	04	00	033	04	00	54.765	EAST BANK OF CREEK
55	HC7/51	310	06	00	57.718	269	07	30	015	58	00	57.710	EAST BANK OF CREEK
56	HC7/52	288	04	00	73.925	270	14	30	353	56	00	73.925	EAST BANK OF CREEK
57	HC7/53	283	38	00	72.251	270	38	30	349	30	00	72.251	EAST BANK OF CREEK
58	HC7/54	280	09	00	65.198	270	31	00	346	01	00	65.198	EAST BANK OF CREEK
59	HC7/55	275	27	30	57.640	270	18	30	341	19	30	57.640	EAST BANK OF CREEK
60	HC7/56	273	34	45	45.620	270	27	00	339	26	45	45.620	EAST BANK OF CREEK
61	HC7/57	260	10	00	46.143	271	06	30	326	02	00	46.135	EAST BANK OF CREEK
62	HC7/58	257	51	30	65.677	270	23	00	323	43	30	65.677	EAST BANK OF CREEK
63	HC7/59	256	41	15	86.878	270	12	00	322	33	15	86.878	EAST BANK OF CREEK
64	HC7/60	130	30	00	145.831	270	14	00	196	22	00	145.831	Western Edge of Alluvium
65	HC7/61	133	11	45	122.928	270	20	00	199	03	45	122.928	Western Edge of Alluvium
66	HC7/62	141	09	00	104.091	270	35	00	207	01	00	104.091	Western Edge of Alluvium

	I	J	K	L	M	N	O	P	Q	R	S	T	U
67	Station	ved Bearing			Distance		Slope		True bearing			True dist	Description
68	HC7/63	148	52	30	93.852	270	41	00	214	44	30	93.852	Western Edge of Alluvium
69	HC7/64	183	21	30	63.153	270	58	00	249	13	30	63.153	Western Edge of Alluvium
70	HC7/65	207	17	00	61.217	270	58	00	273	09	00	61.217	Western Edge of Alluvium
71	HC7/66	227	14	30	84.850	270	53	30	293	06	30	84.850	Western Edge of Alluvium
72	HC7/67	232	03	00	101.140	270	47	00	297	55	00	101.140	Western Edge of Alluvium
73	HC7/68	231	30	00	111.514	270	42	00	297	22	00	111.514	Western Edge of Alluvium
74	HC7/69	233	51	30	127.073	270	39	00	299	43	30	127.073	Western Edge of Alluvium
75	HC7/70	239	00	00	143.860	270	36	00	304	52	00	143.860	Western Edge of Alluvium
76	HC7/71	283	39	00	87.234	270	36	00	349	31	00	87.234	Eastern Edge of Alluvium
77	HC7/72	298	01	30	73.563	270	32	30	003	53	30	73.563	Eastern Edge of Alluvium
78	HC7/73	323	43	30	64.602	270	56	30	029	35	30	64.602	Eastern Edge of Alluvium
79	HC7/74	349	53	00	54.726	270	28	45	055	45	00	54.726	Eastern Edge of Alluvium
80	HC7/75	015	22	30	54.264	270	30	00	081	14	30	54.264	Eastern Edge of Alluvium
81	HC7/76	036	07	45	53.676	270	48	00	101	59	45	53.676	Eastern Edge of Alluvium
82	HC7/77	056	50	30	70.439	270	36	00	122	42	30	70.439	Eastern Edge of Alluvium
83	HC7/78	046	42	00	111.628	270	47	00	113	34	00	111.628	Eastern Edge of Alluvium
84	HC2/1	126	1	30	30.556	268	10	30	132	41	0	30.538	Cut Spoil Heap
85	HC2/2	104	20	45	12.865	264	54	0	111	0	15	12.796	Cut Spoil Heap
86	HC2/3	66	28	0	15.88	266	30	30	73	7	30	15.842	Cut Spoil Heap
87	HC2/4	013	10	15	21.807	267	12	00	019	49	45	21.778	Cut Spoil Heap
88	HC2/5	348	50	30	26.148	267	37	30	355	30	00	26.114	Cut Spoil Heap
89	HC2/6	021	18	00	20.276	267	05	30	027	57	30	20.249	Cut Spoil Heap 2
90	HC2/7	026	31	00	28.152	268	32	30	053	10	30	28.136	Cut Spoil Heap 2
91	HC2/8	040	55	00	32.478	269	15	00	047	34	30	32.474	Cut Spoil Heap 2
92	HC2/9	054	11	15	23.102	268	16	00	060	50	45	23.089	Cut Spoil Heap 2