



WILSON CREEK

120028

MAGNETOMETER SURVEY

Whitehorse Mining District, Yukon Territory  
Placer Lease No. 5972  
Map N.T.S. 105-C-11

by  
GARY LEE  
and  
RON GRANGER

Field work conducted from  
1 to 9 December 1981

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## INTRODUCTION

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### GENERAL

On December 1, 1981 a two-man (Larry Lebedoff and Bradley White, both of Whitehorse, Y.T.) survey team flew into a location near Brewer Lake in the vicinity of Wilson Creek where a camp was established. Surveying, line preparation and a magnetometer survey were carried out to noontime, December 9, when camp was struck and removed by helicopter.

The purpose of the survey was to locate magnetic anomalies which might be related to above background concentrations of magnetically susceptible minerals synonymous with placer gold and platinum deposition possibly in ancient buried channels.

Gary Lee was hired as an independent consultant and, along with Ron Granger, has prepared this report. The general contractor for the mag. survey on Wilson Creek is Golden Empire Mines Ltd., Whitehorse, Y.T.

### LEASE

Placer Lease 5972 was granted to Joseph Louis (Joe) Suits on April 8, 1981. Golden Empire Mines Ltd. of 117 Industrial Road and 503 Main Street, Whitehorse, has an exploration agreement with Mr. Suits.

### LOCATION

Placer Lease 5972 has its No. 1 post located beside Wilson Creek, approximately 3.6 kilometers upstream from its outlet on the Teslin River. The lease follows the creek upstream four miles to the No. 2 post (see location map, page 8 ).

Wilson Creek is the name used on present-day maps, but during the 1930's it was called Johnson Creek and prior to that was called 112 Mile Creek.

Wilson Creek empties into the Teslin River from the north-east, approximately 16 kilometers downstream from Johnson's Crossing on the Alaska Highway.

Line 0+00 on the base line is located beside Wilson Creek south-east of Brewer Lake, about mid-way in the lease. The complete grid layout can be seen on the magnetic contour map included as page 24 .

## GEOLOGY

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Memoir 326, "Geology of Teslin Map-Area" (1963) by Robert Mulligan is the active report on this district.

The lease crosses a north-west trending contact between Upper Triassic argillaceous sandstone, greywacke and volcanics on the west and Mississippian (or earlier) metamorphic rocks of the Big Salmon Group on the east.

Memoir 203 and map 350A by E. J. Lees, 1935, show much the same geology but with a little more detail of the lease area. There is a suggestion that Wilson Creek might occupy a fault line.

Aerial photographs and topographic maps can be interpreted to show Brewer and Gunsight Lakes occupying an ancient watercourse draining through Dave Creek.

Geologically, there are a few points to be made which are significant to a "placer" magnetometer survey here. The volcanics which may underlie the survey area would be higher in magnetism than the other rock types mentioned. The general strike direction of the regional geological contacts cross-cut the general drainage pattern of the survey area and hence minimize the chance of being confused for an old channel.

However, one must be aware of the possibility of a fault paralleling the general drainage direction.

Granitic boulders noted in the field, and of which one recorded a moderate to high magnetic susceptibility, seem to originate from areas outside the lease.

## HISTORY

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During the period 1875-78, George Holt out of Juneau discovered coarse gold on the "Tes-lin-too" River. He was followed in 1880 by a 19-man party led by Edmund Bean, and other groups. They had disappointing results. In 1881, two of Bean's party found bar pay on the Teslin River and G. M. Dawson noted "This may be characterized as the first discovery of paying placers in the district", i.e. district of Yukon. In 1887, Dawson noted that Thomas Boswell worked the "Tes lin-Too" and that "Teslin miners did fairly well."

When the Klondike Gold Rush slowed, prospectors returned to the Teslin in search of gold. Many streams were found to carry low grade but little coarse pay was found other than in the Livingstone camp.

In 1908, R. B. Evans made a deposition that his (and others) work in the 112 Mile Creek area resulted in the discovery of gold and platinum. He stated that "platinum is found in almost every pan" and "I found a piece of platinum 1½ penny weights in size (which was) sent to the mint at San Francisco", where it was determined to be platinum.

In 1935, E. J. Lees did a reconnaissance mapping of the area, which resulted in Memoir 203; this memoir contains many items of interest about the activities of early prospectors and miners who still lived at the time of his ~~discovery~~. *survey*.

Also in 1935, H. S. Bostock remarked on some of the creeks having "always been worked in a small way" and that "Johnson (112 Mile)" was "worked by one miner during the season."

Memoir 326, Geology of Teslin Map-Area by Mulligan, notes that "the creek south of Cone Mountain is said to be gold-bearing." The creek south of Cone Mountain is Wilson Creek.

#### FIELD PROCEDURE

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A Sharpe's MF-1 fluxgate magnetometer was used and readings were taken to the nearest 10 gammas or, occasionally, 5 gammas. The instrument reads the vertical component of the earth's magnetic field.

Readings were taken at 5-meter intervals, with a few sections at 10-meter intervals. Visual estimates were made of topographic change along the lines and these appear on the profile sheets attached. Some large boulders in the till were tested for magnetic effect by taking readings at varying distances.

A base line 840 meters long was surveyed in short loops of about 200 meter distances. Base line readings were made over short pickets for high repeatability and diurnal corrections were made in ten gamma increments in the office. Cross lines were laid out at 30-meter intervals and 4380 meters of line were surveyed. Diurnal adjustments were corrected to base line station points.

APPLICATION OF MAGNETIC THEORY

When applying magnetic theory to placer prospecting, it is important to realize that there are many causes of magnetic anomalies and only a few of these will be useful in placer prospecting. Hence, in recommending test locations based solely on magnetics, one must by process of elimination come up with priority targets which stand the best chance of being successful. In doing this, one must couple the results of a magnetometer survey with known geology, estimates of order of magnitude of overburden thickness (i.e. 20 feet or 120 feet), its nature, when possible, and changes in topography.

The first (and most obvious) reason for doing a mag. survey is to try and locate ancient, buried stream channels by detecting the often present higher-than-background concentrations of black sands (high in magnetite content), which could show up as anomalies. Figure 1 shows the magnetic profile (AZ - vertical component) over an inclined prism-shaped body of magnetic material in granite. This can be said to be analagous to an inclined prism-shaped body of placer material rich in magnetite lying on bedrock and completely covered by an increasing depth of overburden.

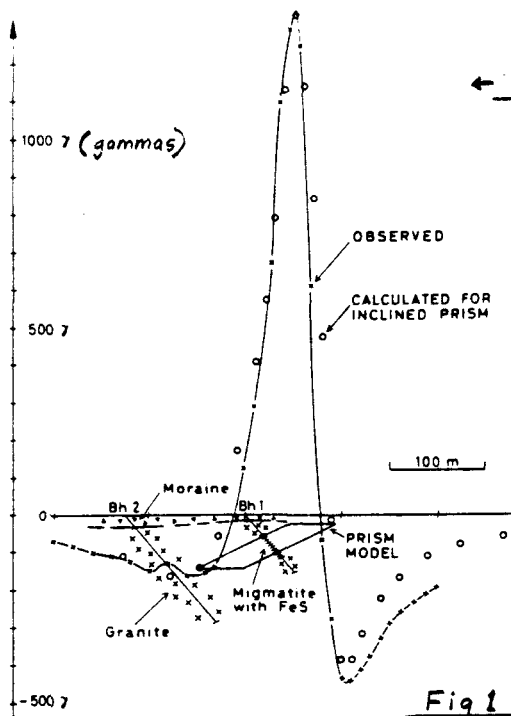


Fig 1

Observed and calculated  $\Delta Z$  across an inclined prism-like body ( $k = -1.564$ )

← Reference → Principles of Applied Geophysics by D. S. PARASNIS, 1972 (Magnetic Methods)

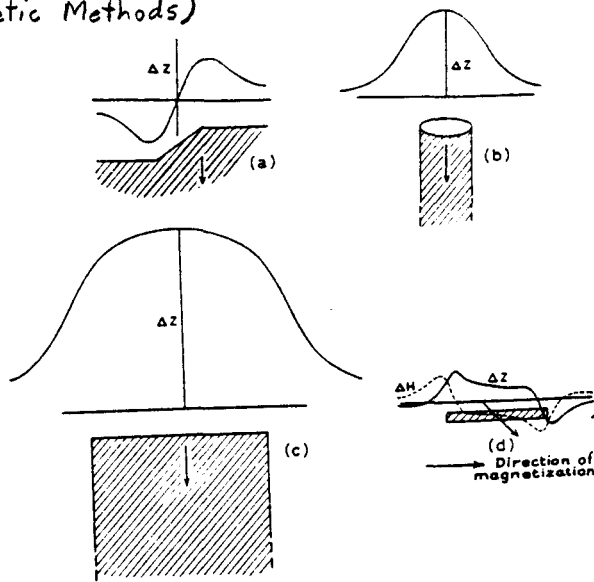


Fig. 2 Miscellaneous features

Figure 1 demonstrates the ideal case of a very strong (over 1000 gammas) magnetic anomaly. With the rare exception, one would expect anomalies to range from 20 to 500 gammas in placer prospecting. Also,

Figure 2(d) shows the shape of a magnetic profile over a buried horizontally-lying feature of magnetic material shaped like a plate. These examples (or combinations thereof) are the anomaly shapes (profiles) that one hopes to delineate in the field as being caused by an ancient buried stream bed.

Another, more indirect, approach is that often well-washed granitic type boulders which may have high magnetic susceptibilities are encountered in valley bottoms where the basement rock is known to be non-granitic. Hence, shallow buried boulder fields which could indicate the presence of an ancient drainage pattern could show up as an erratic, closely spaced "up and down" profile and should be watched for. Also, this may be partly responsible for the overburden (till, etc.) having local above background concentrations of magnetic minerals, resulting in magnetic anomalies unrelated to economic placer deposition. Unfortunately, the only way to eliminate these is to test pit, shaft sink or drill!

An even more indirect approach can be seen in Figure 2(a) when a sudden change in overburden depth occurs, undulations of the bedrock under an overburden, a flexure of rock beds or an erosional mountain-valley combination. In this case, a negative to positive (deeper to shallower overburden) anomaly occurs. Of course, this is an ideal case and the anomaly size and shape are dictated by such things as the magnetic susceptibility of the bedrock, slope, depth changes, etc. This is to be expected in any valley and most of the causes are too numerous to mention. However, there is always a chance that consistent parallelling profile anomalies of this nature could be caused by an old channel which has cut deep into bedrock and has subsequently been buried. This should be kept in mind when studying magnetic profiles.

Another phenomenon occurs when one is both approaching the toe of a hill and taking readings up the side. Here, magnetic readings will often increase - their magnitude being dependent on slope, magnetic susceptibilities, size of hill and overburden depths. The converse is often true when approaching a steep drop-off. This is simply a topographical effect and should be borne in mind.

One of the most difficult tasks in the interpretation of a survey of this type is to eliminate anomalies which are caused by bedrock itself. These could be caused by dykes, contacts, faults, or simply local changes in bedrock magnetic susceptibilities. Sometimes the only way to differentiate is to test pit, shaft sink or drill in the hopes that some of the anomalies are caused by a placer deposition rather than composition changes in bedrock.

Anyway, when one is faced with large valleys which are "too big to know where to dig", especially with limited time and resources, one is far better off having, say, a dozen magnetic anomalies which coincide with a reasonable topographic approach (i.e. regarding placer deposition) as opposed to simply testing at random. Before undertaking a mag. survey, the active creek in the area should be panned for placer magnetite (black sand). If found in detectable quantities, then one can reasonably assume that ancient channels would have significant quantities as well, in the area.

## INTERPRETATION AND CONCLUSIONS

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The resulting profiles and contour map for Wilson Creek are included as pages 9-24.

Following the correction of readings, a plan of the survey (page 24) was prepared at a scale of 1:2000, readings were applied to it and contours were drawn at 100 gamma intervals. The plan shows that the surveyed area varies in magnetic intensity by about 300 gammas from 380 on the south to 680 on the north. This variation causes the contours on plan to be foreshortened and less apparent than the individual line profiles (pages 9-24).

There is a general propensity for magnetic readings to increase as elevations increase - i.e. as the instrument rises on a hillside, the readings obtained increase. This generality pertains until the hilltop is reached; then readings tend to flatten or fall. Some lines and sections of lines do not conform to this generality, and anomalous cases abound. The "generality" might be explained as follows:

a) Bedrock is weakly magnetic and is closer to surface on the hillsides than it is in the valley bottom;

or

b) The overburden is magnetic and is of varying thicknesses over bedrock. Some boulders tested were moderately magnetic.

From 0+00 to approximately 1+00 m north, there is a moderate high which is oriented north-west and might reflect north-west striking bedrock geology in the form of andesite-basalt, which is present nearby in mapping. North of 1+00N, the magnetics are oriented in general along the present valley cut through the till by Wilson Creek. These anomalous sections are sinuous and disjointed, thus suggesting the possible presence of concentrations of magnetite along old braided channels. These have been numbered from 1 to 6 on the accompanying plan. This numbering is only random and is not in any order of priority.

Several unexplained magnetic zones have been indicated by the survey. The creek has a long history of small scale gold production plus long known evidence of placer platinum occurrences.

Large quartz veins carrying base metals, silver and gold, have been long known and prospected in the hills above the north end of the lease area. These veins occur in sheared diorite and hornblendite, which rocks might have some connection with the reported presence of platinum.

It is concluded that placer gold deposition could have occurred in old creek channels now more or less buried by overburden. It is further concluded that magnetic zones shown on the plan might indicate the locations of such deposits.

RECOMMENDATIONS

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Test pits should be dug to establish the presence of gold and platinum, especially near old mined areas. Test pits in till might be undertaken to establish whether magnetite is present. Outcrops should be sought near the creek and tested for their magnetic qualities.

Since government geologists and early prospectors-miners have located older gravels beneath glacial till and clay in several locations in the district, the presence of similar material should be sought on Wilson Creek.

If such follow-up gives positive indications of a correlation between the magnetic data and gold deposition, then the present grid should receive a little additional attention and should also be extended northerly to cover that part of the valley near the ruins of the old miner's cabin.

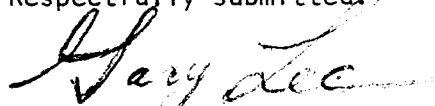
Any larger program would entail opening the Evelyn Creek tote trail and extending it into Wilson Creek valley, if this proves feasible.

The following are recommended test sites - not necessarily listed in order of priority. Where a choice of test sites is given, it is left up to the person in the field to select the one best suited with regard to access, drainage, topography, etc.

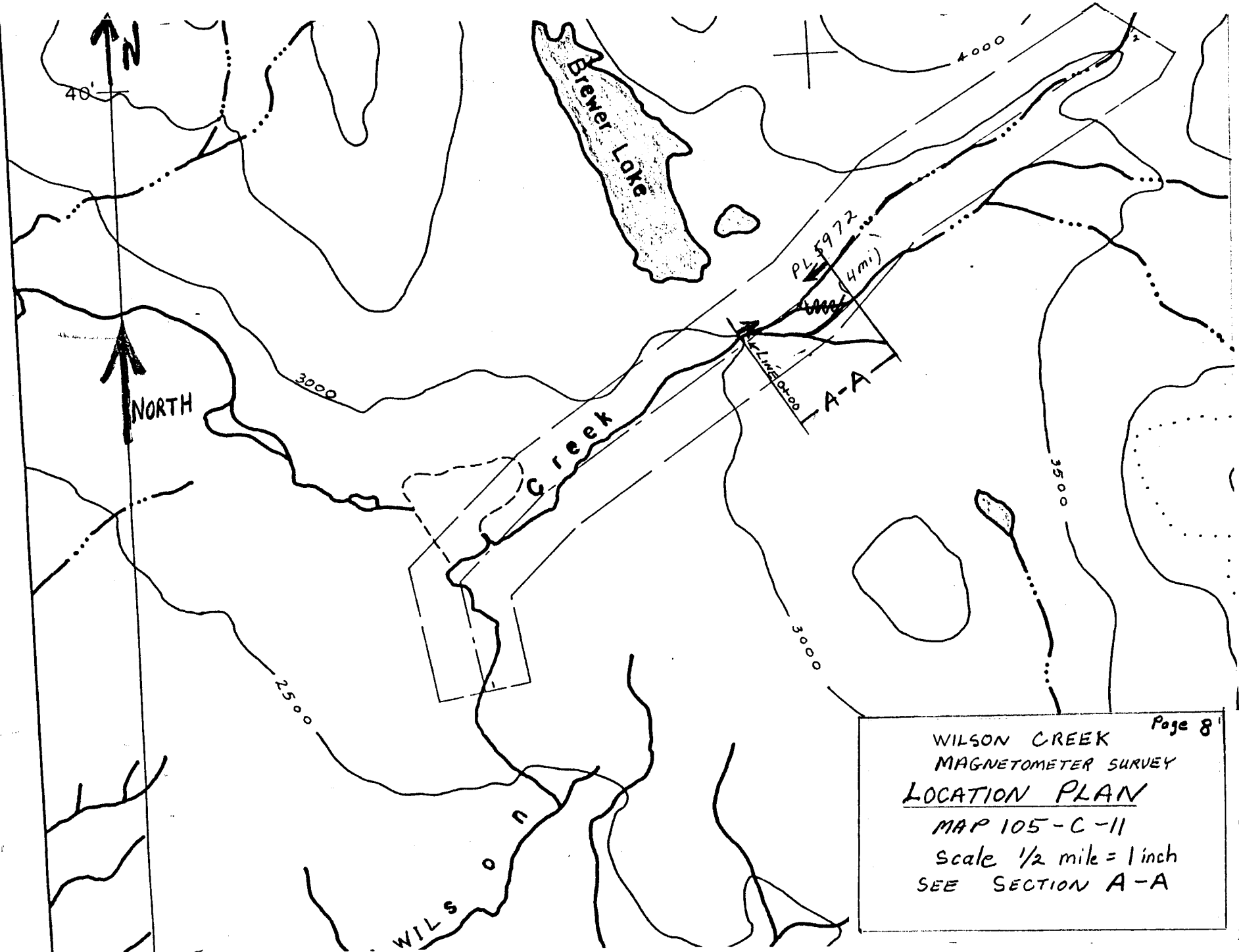
	<u>Line</u>	<u>Station</u>			<u>Line</u>	<u>Station</u>	
1)	L 8+10 N	0+45 E	or		L 8+40 N	0+47 E	
2)	L 8+10 N	0+47 W	or		L 8+40 N	0+60 W	
3)	L 6+30 N	0+65 W	or		L 6+90 N	0+55 W	
4)	L 6+60 N	0+30 E	or		L 6+60 N	0+45 E	
5)	L 6+60 N	0+05 W	or		L 6+30 N	0+07 E	
6)	L 5+40 N	0+08 W	or		L 5+10 N	0+10 E	
7)	L 4+50 N	0+22 W	or		L 4+20 N	0+50 W	
8)	L 3+60 N	0+15 W					
9)	L 2+70 N	0+60 E	or		L 2+40 N	0+45 E	
10)	L 2+40 N	0+25 W	or		L 1+80 N	0+10 W	
11)	L 2+10 N	1+05 E					
12)	L 1+80 N	0+55 W	or		L 1+50 N	0+50 W	
13)	L 1+80 N	0+25 E					
14)	L 1+50 N	0+10 E	or		L 1+20 N	0+05 W	
15)	L 0+30 N	0+50 E					

The above 15 recommended test sites encompass a roughly even distribution of remote left limit, right limit and creek test sites through the complete length of the survey area.

Respectfully submitted:



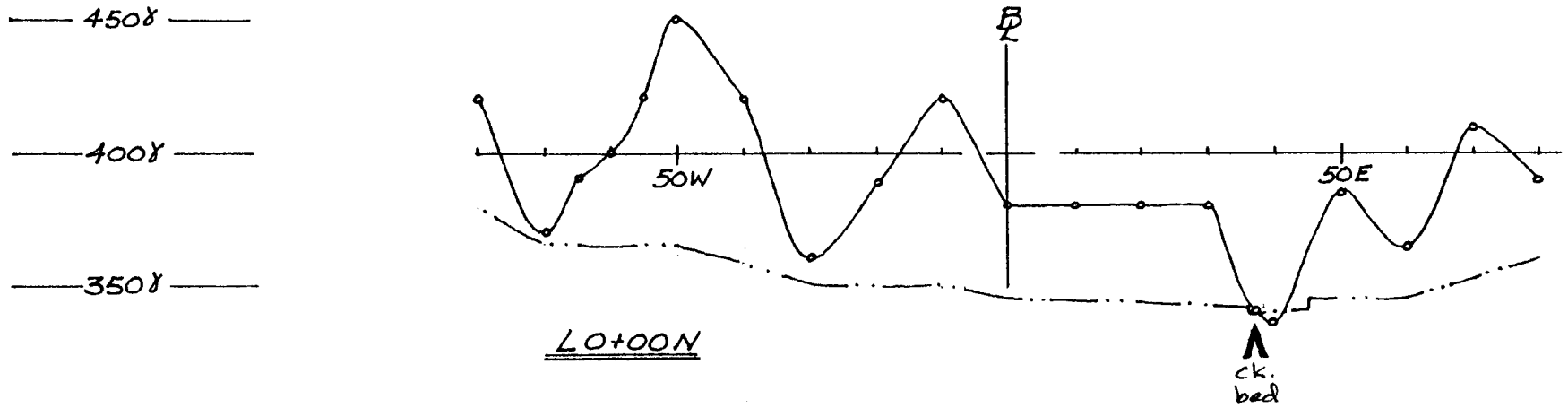
Gary C. Lee, P.Eng.



Wilson Creek  
MAGNETOMETER SURVEY  
LOCATION PLAN  
MAP 105-C-11  
Scale 1/2 mile = 1 inch  
SEE SECTION A-A

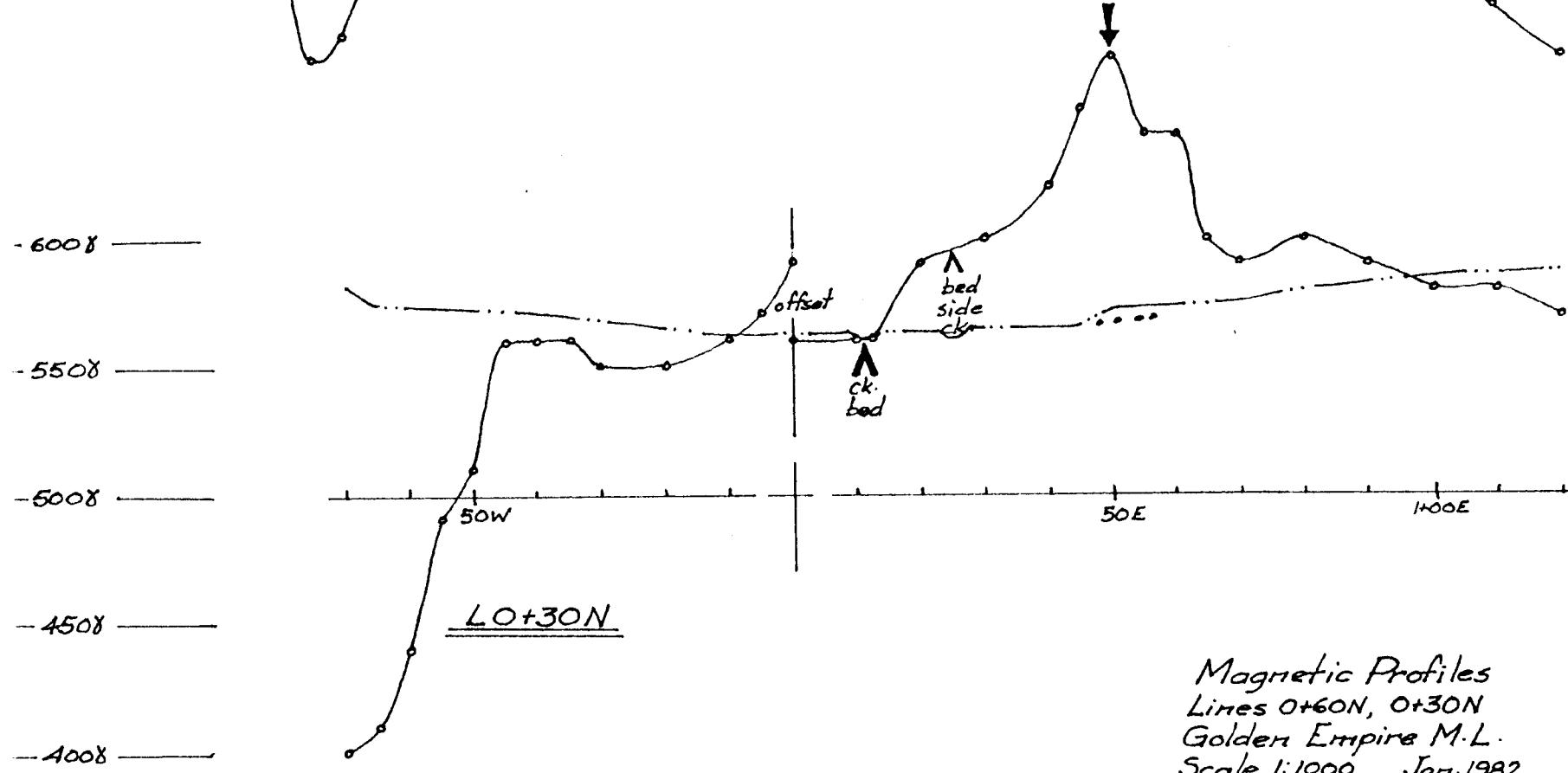
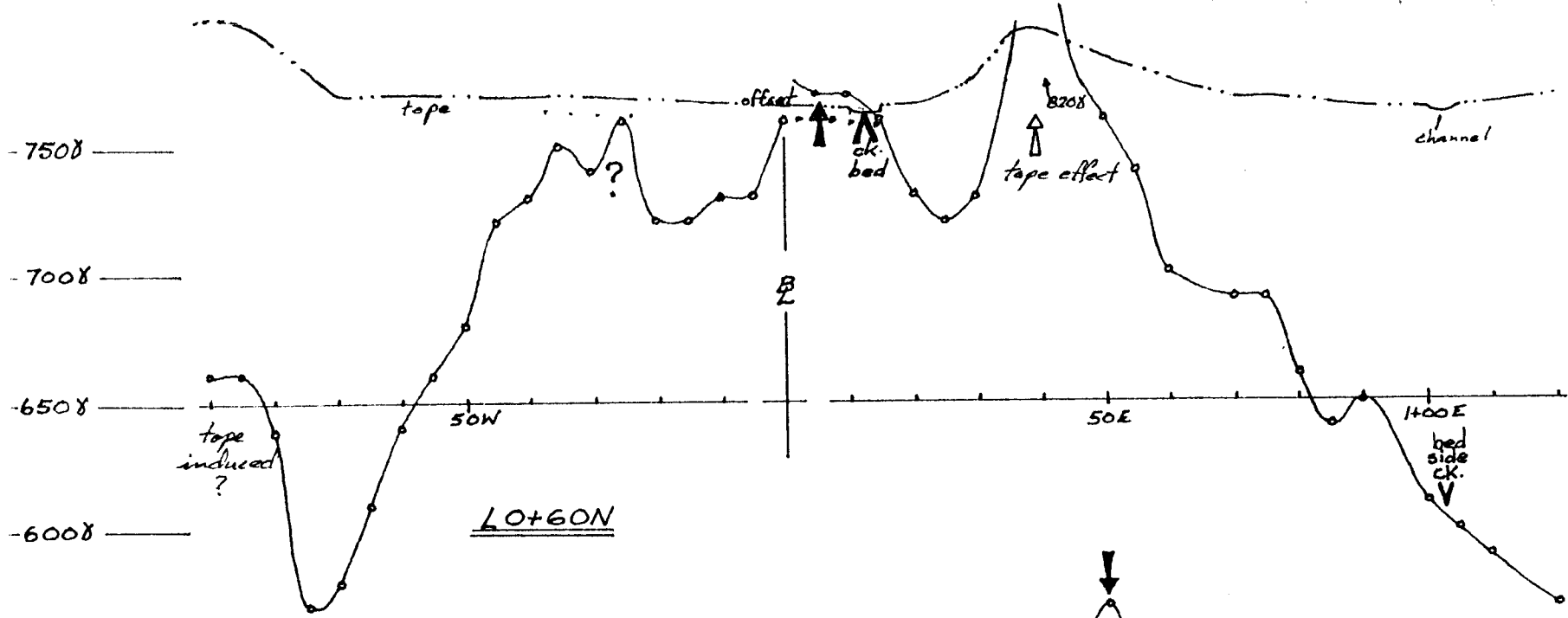
Page 8

gammas

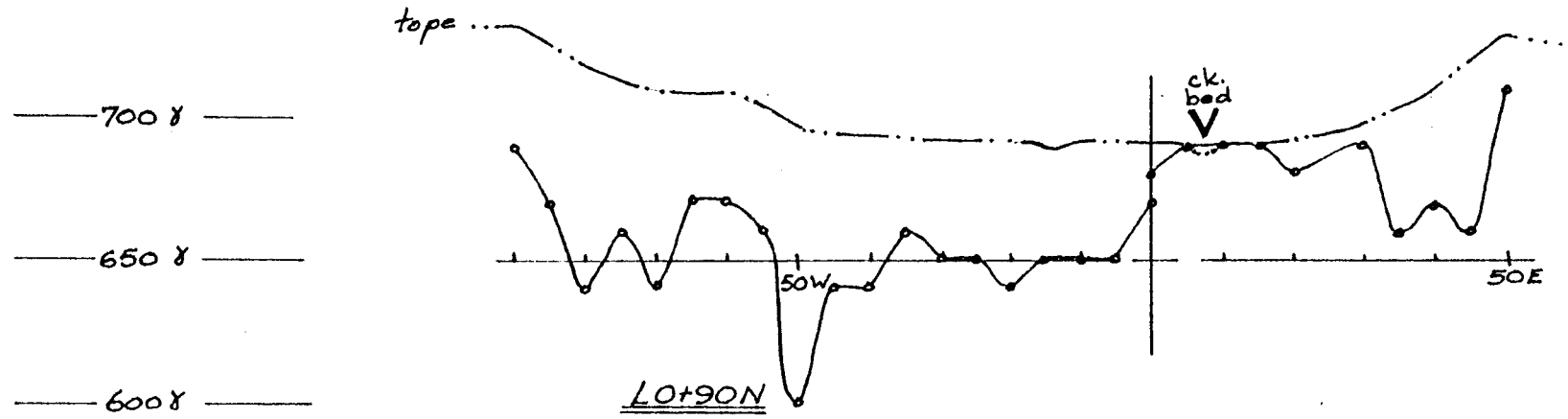
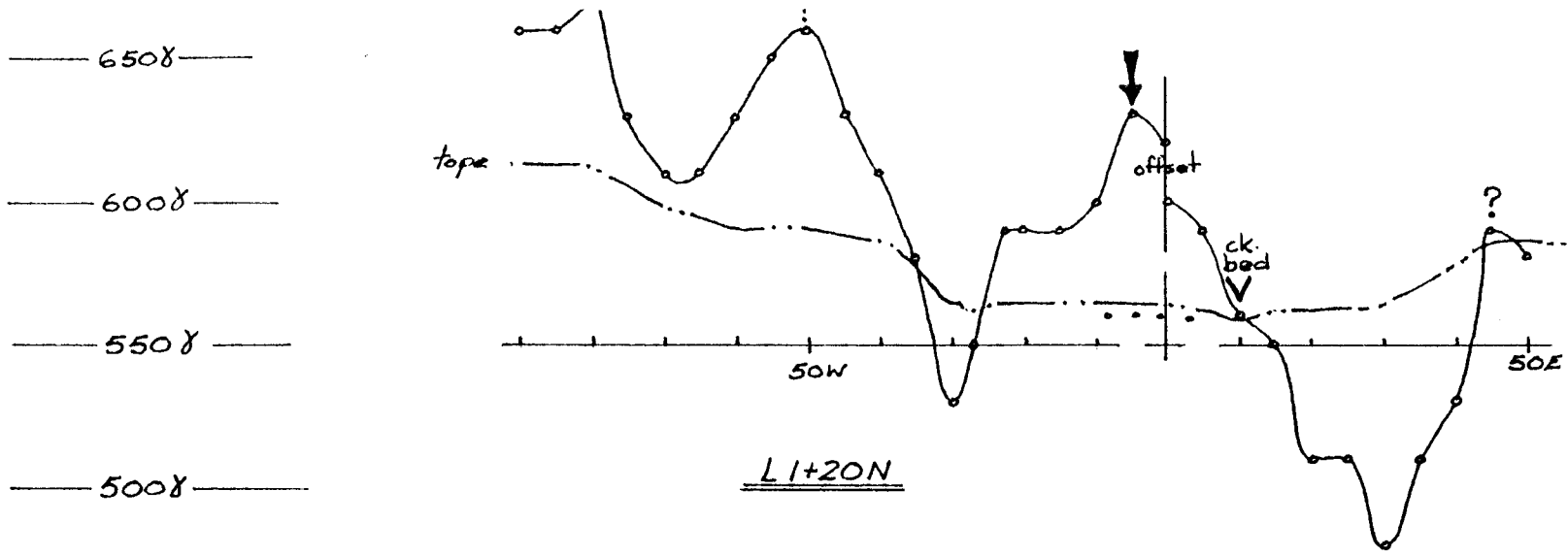


- o reading
- ∇ creek bed
- ↓ possible deposit by profile
- ↓ possible deposit by profile & plan & topo
- ... topographic profile, approx.

Magnetic Profile  
Line 0+00  
Golden Empire M.L.  
Scale 1:1000 Jan. 1982

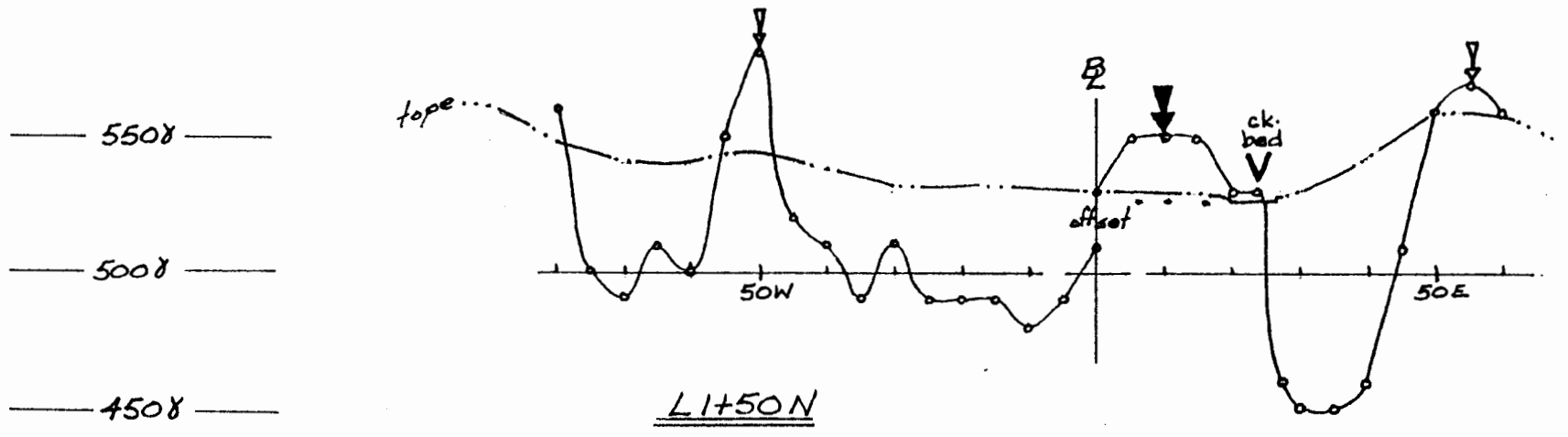
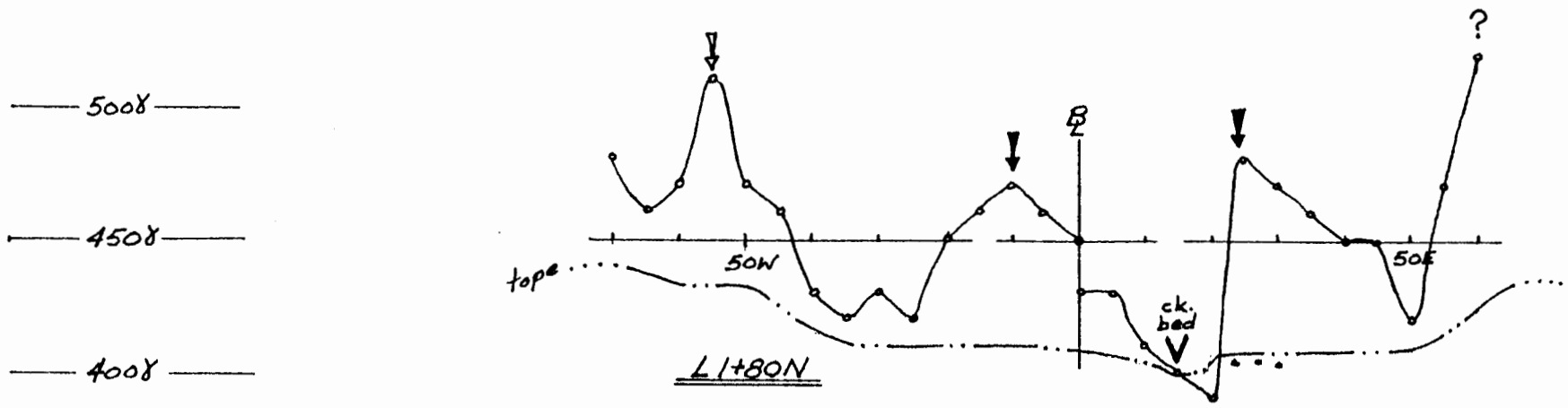


Magnetic Profiles  
 Lines 0+60N, 0+30N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982



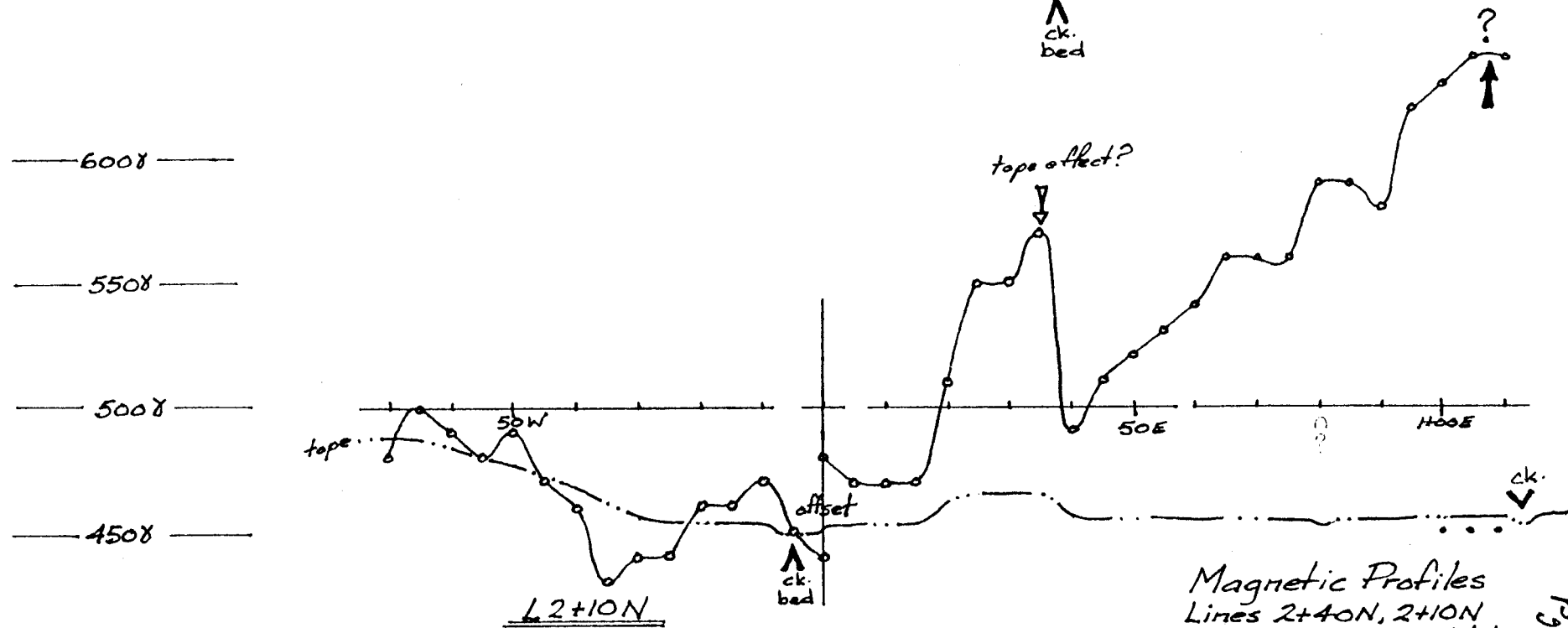
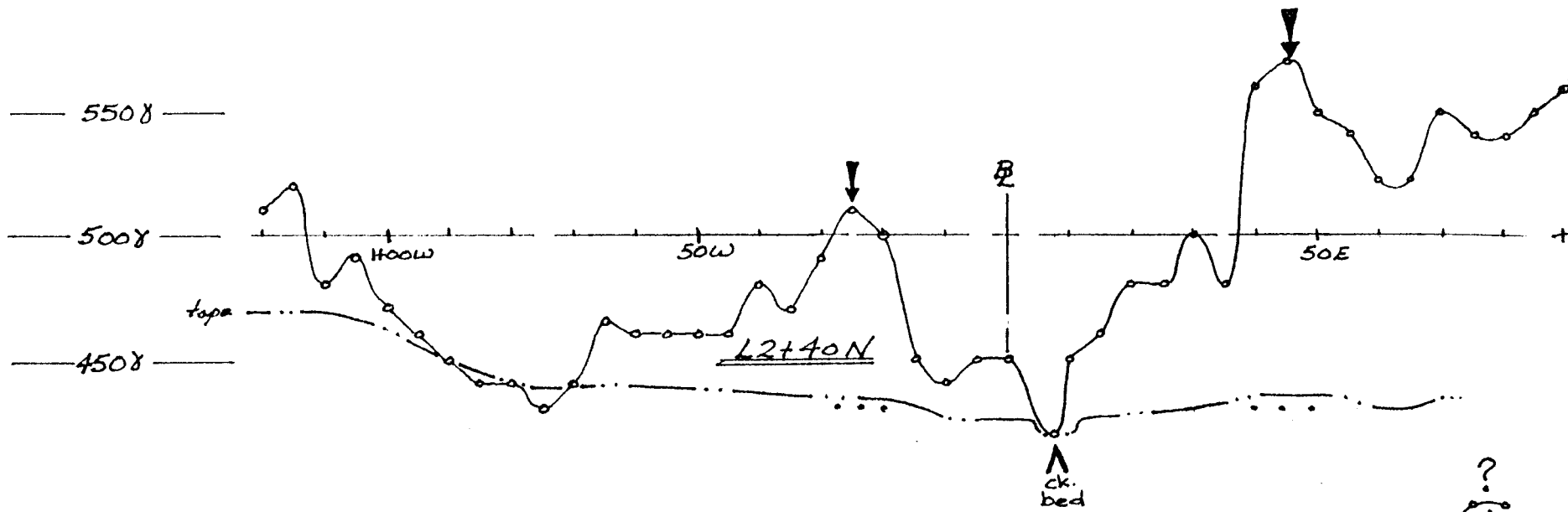
Magnetic Profiles  
 Lines 1+20N, 0+90N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

Pg 11

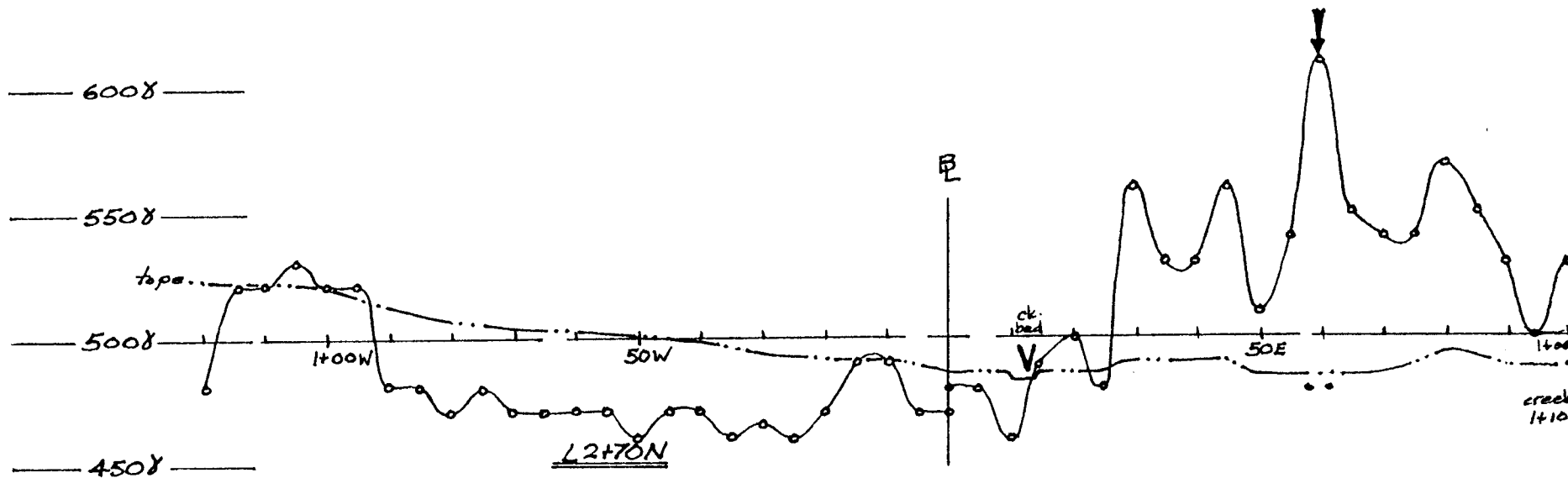
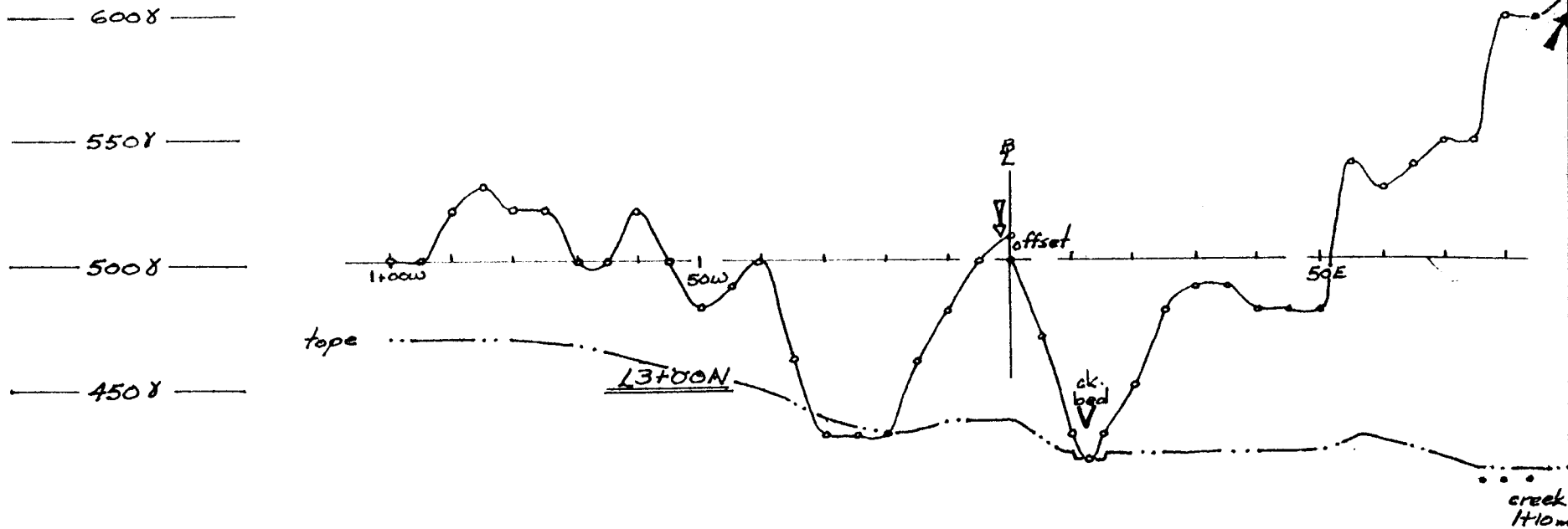


Magnetic Profiles  
 Lines 1+80N, 1+50N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

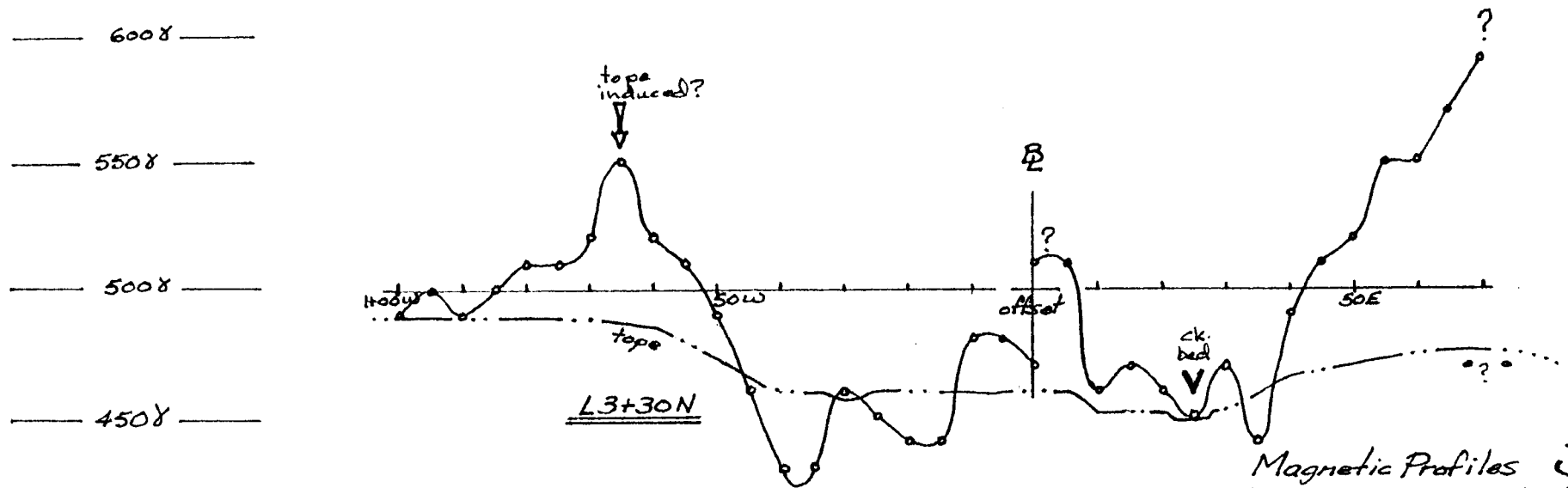
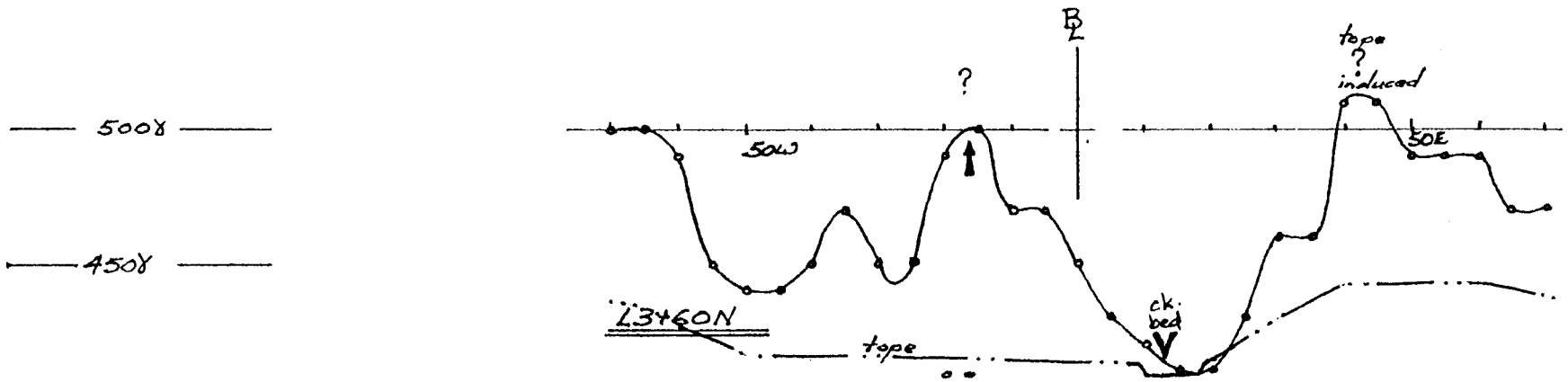
Pg 12



Magnetic Profiles  
 Lines 2+40N, 2+10N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

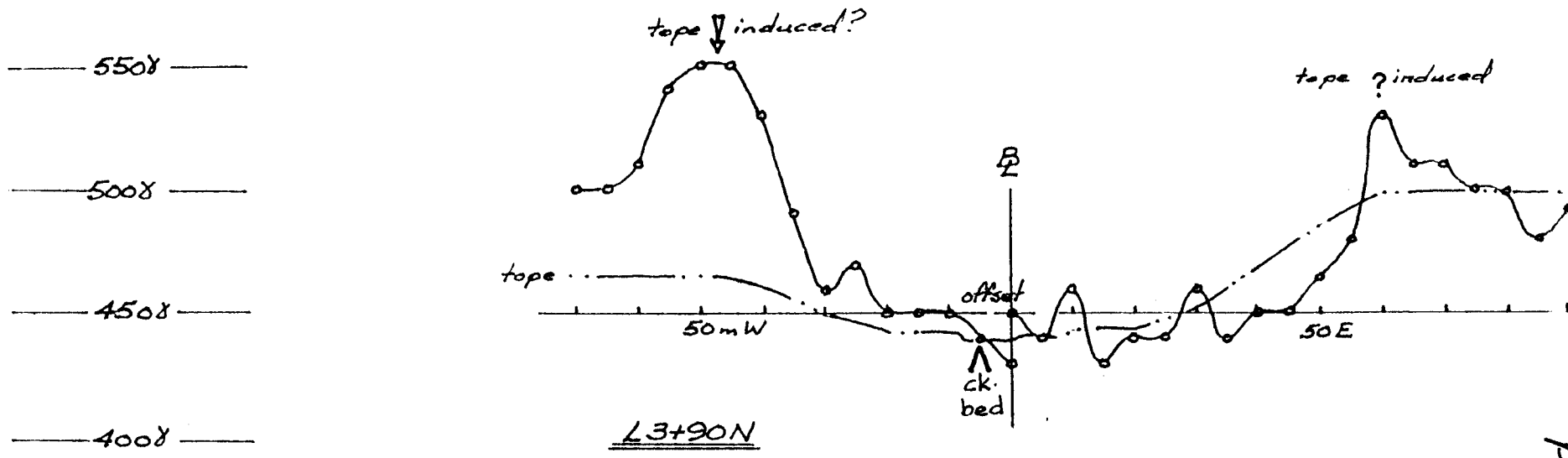
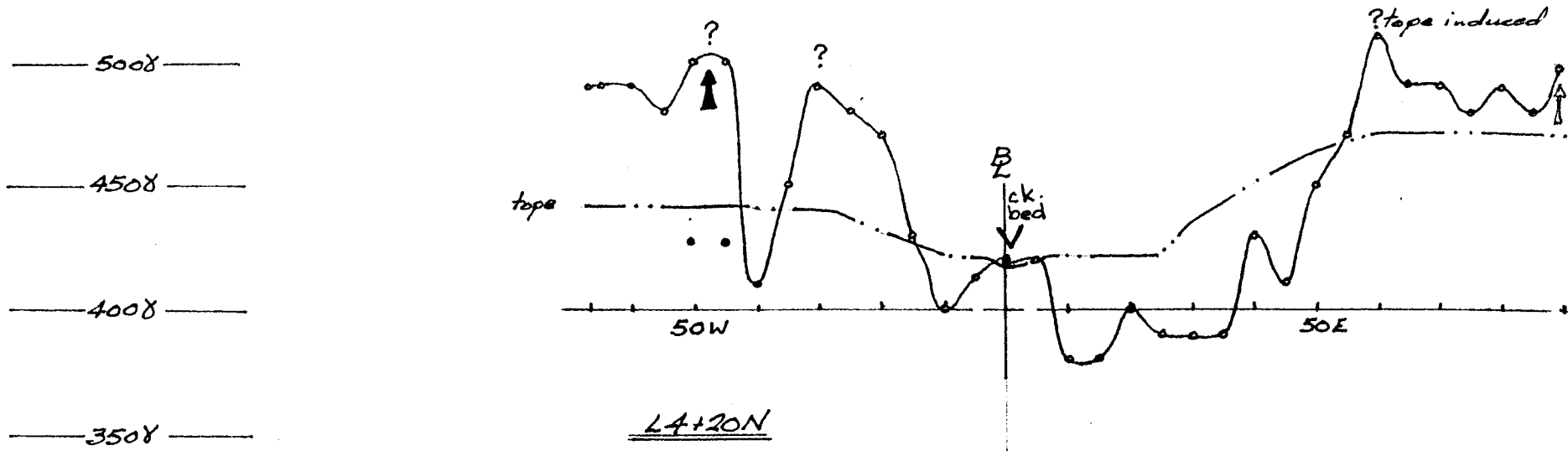


Magnetic Profiles  
 Lines 3+00N, 2+70N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

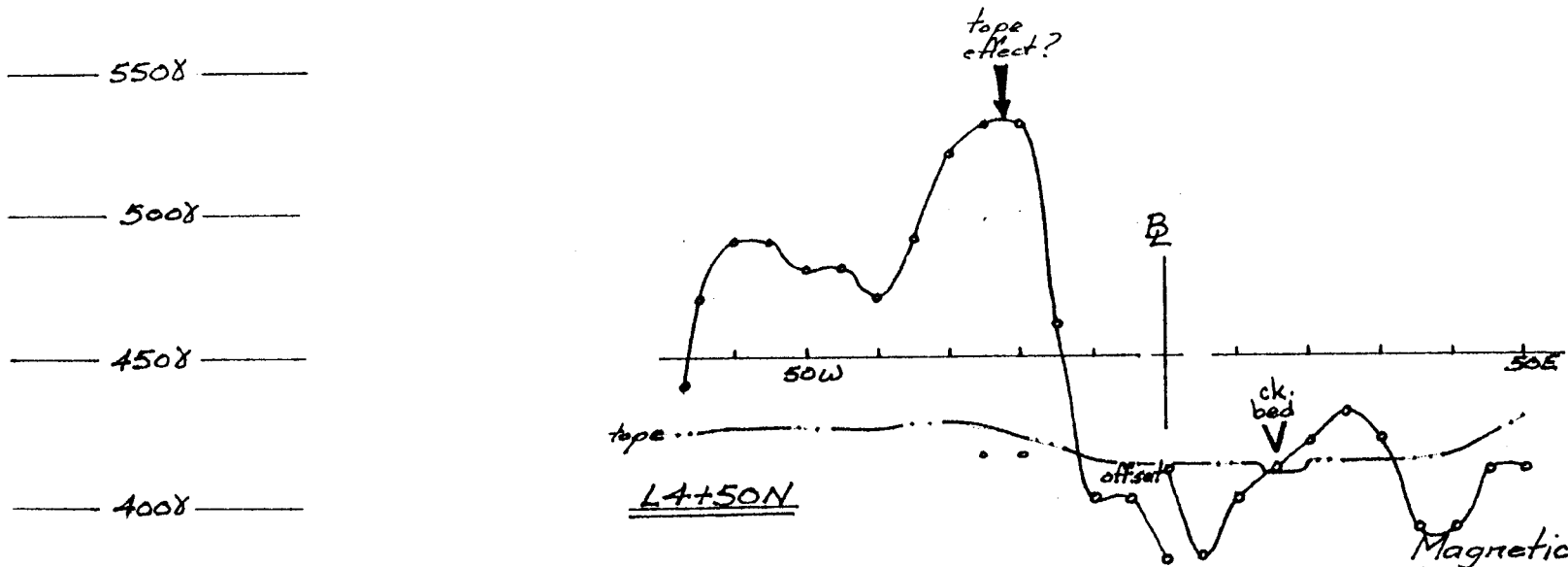
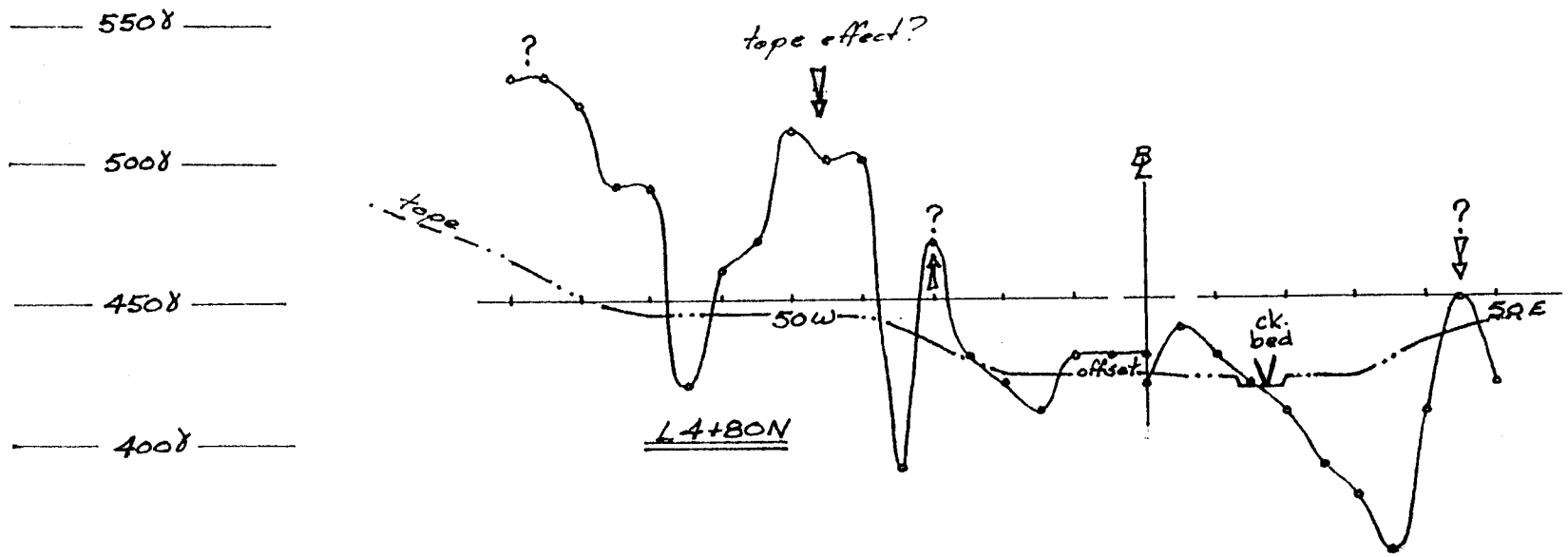


Magnetic Profiles  
 Lines 3+60N, 3+30N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

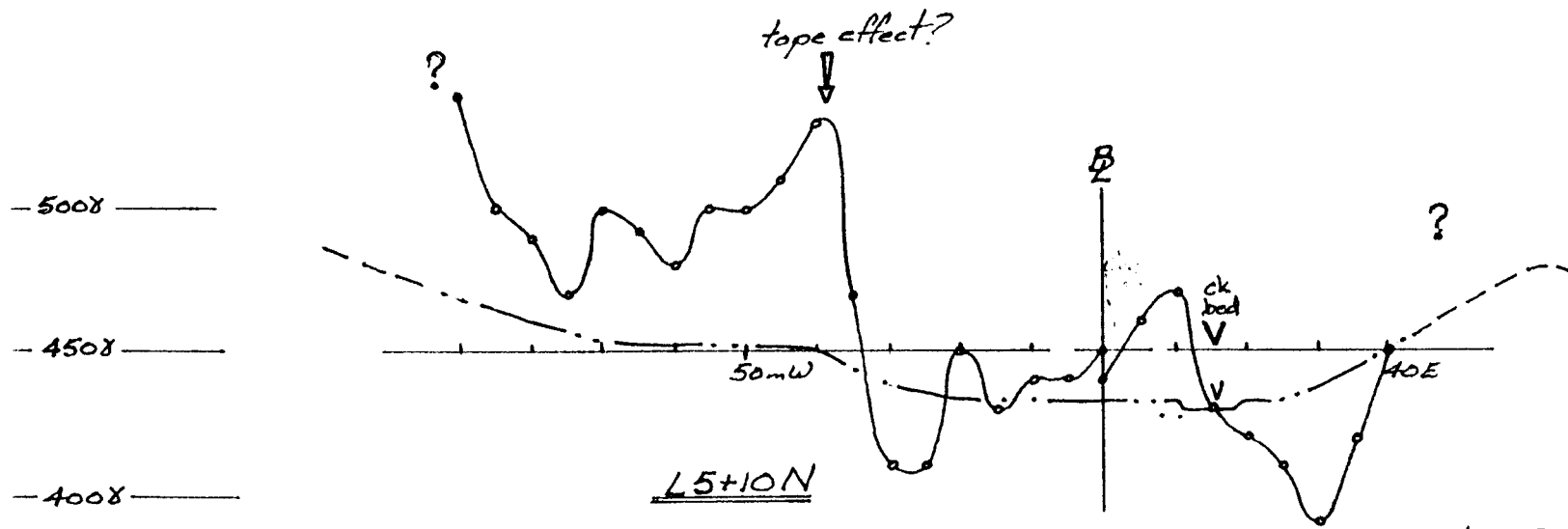
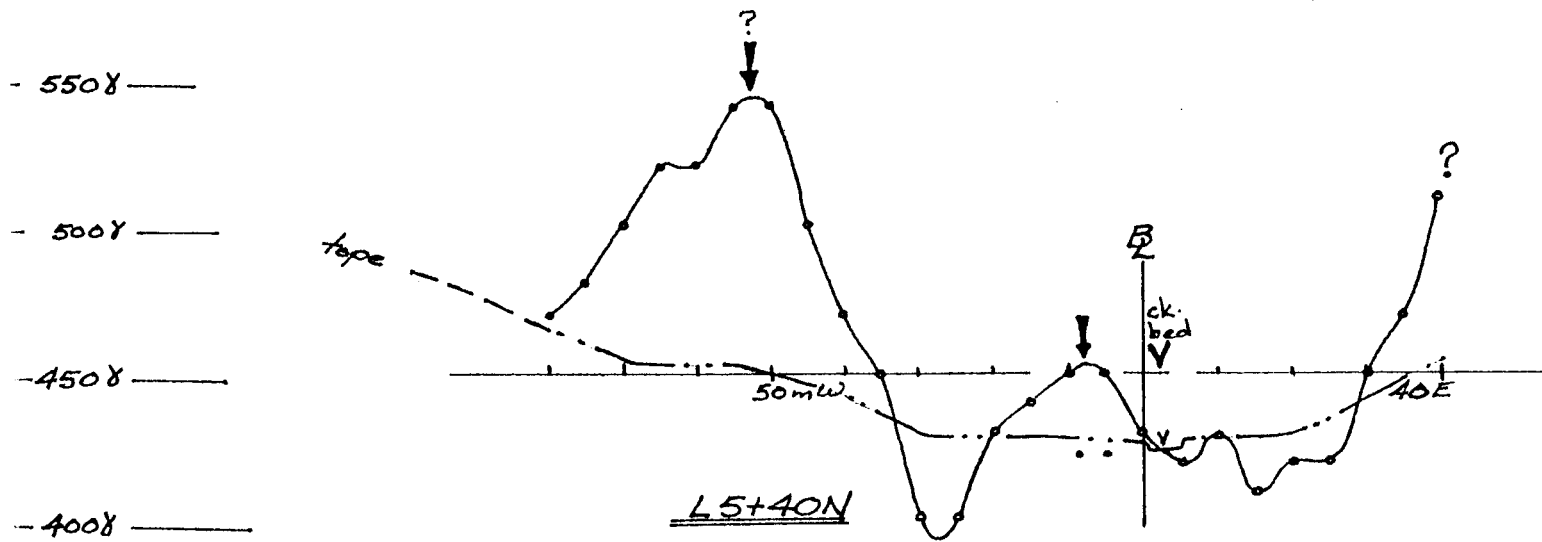
Pg 15



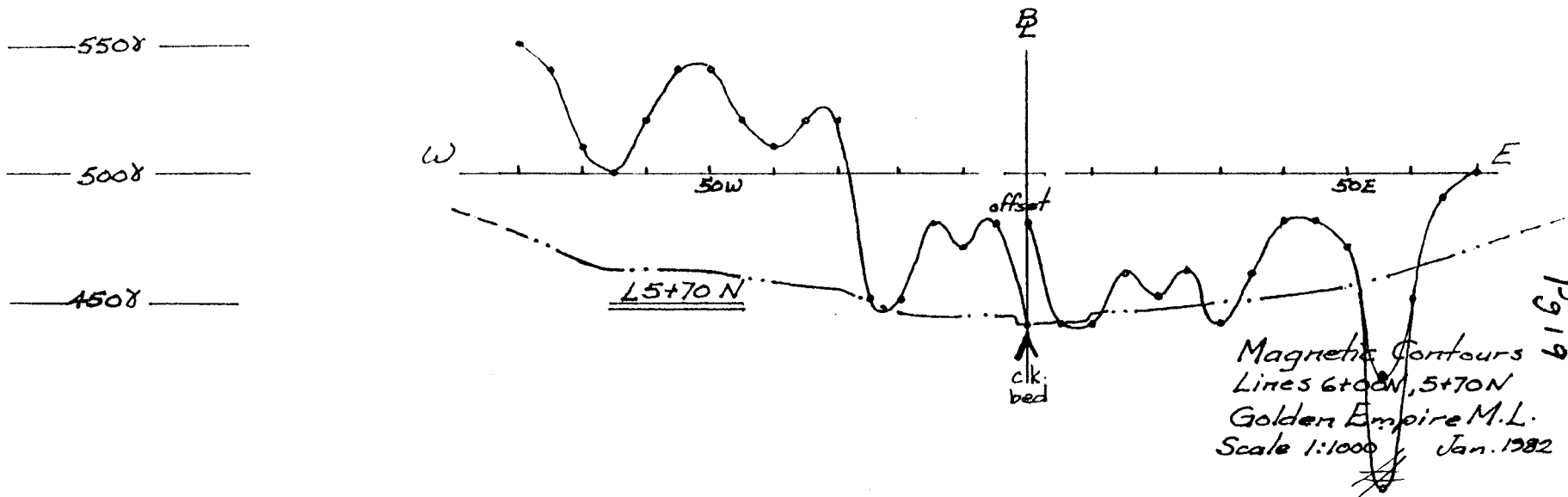
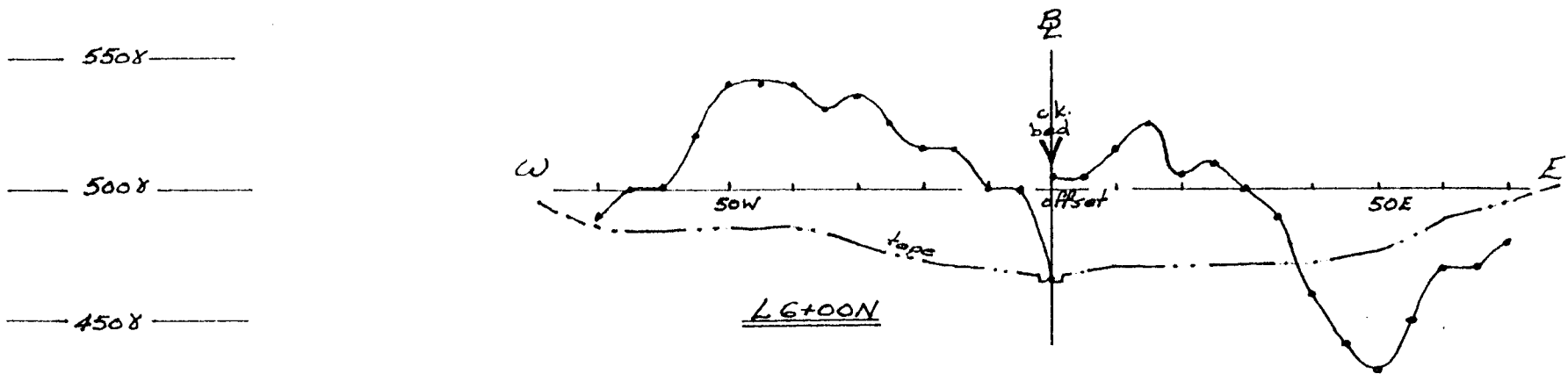
Magnetic Profiles  
 Lines 4+20N, 3+90N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982



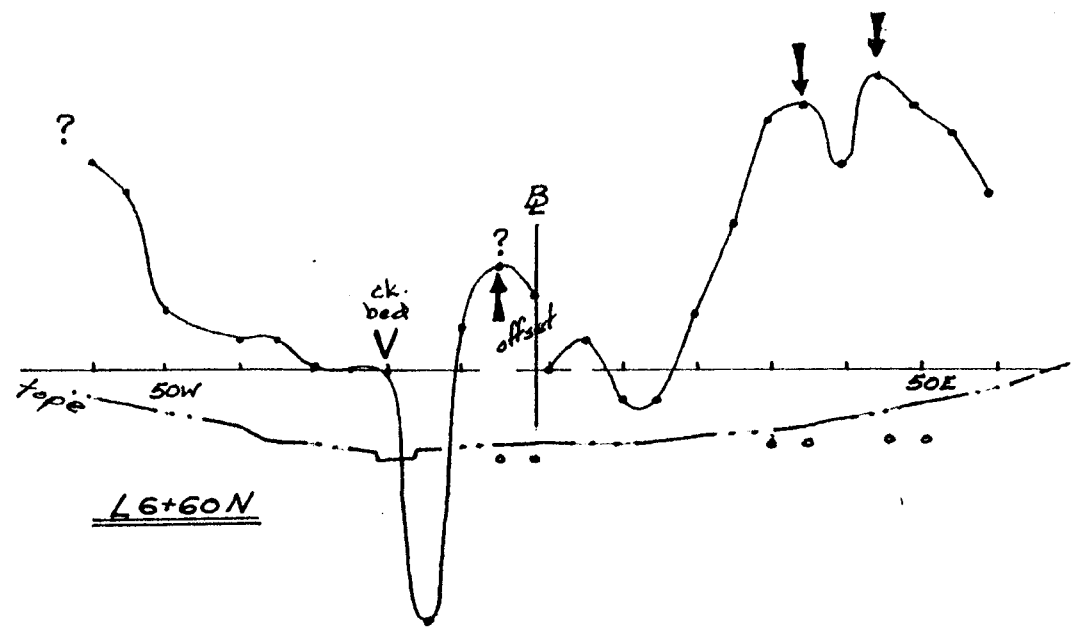
Magnetic Profiles  
 Lines 4+80N, 4+50N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982



Magnetic Profiles  
 Lines 5+40N, 5+10N  
 Golden Empire M.L.  
 Scale 1:1000 Jan. 1982

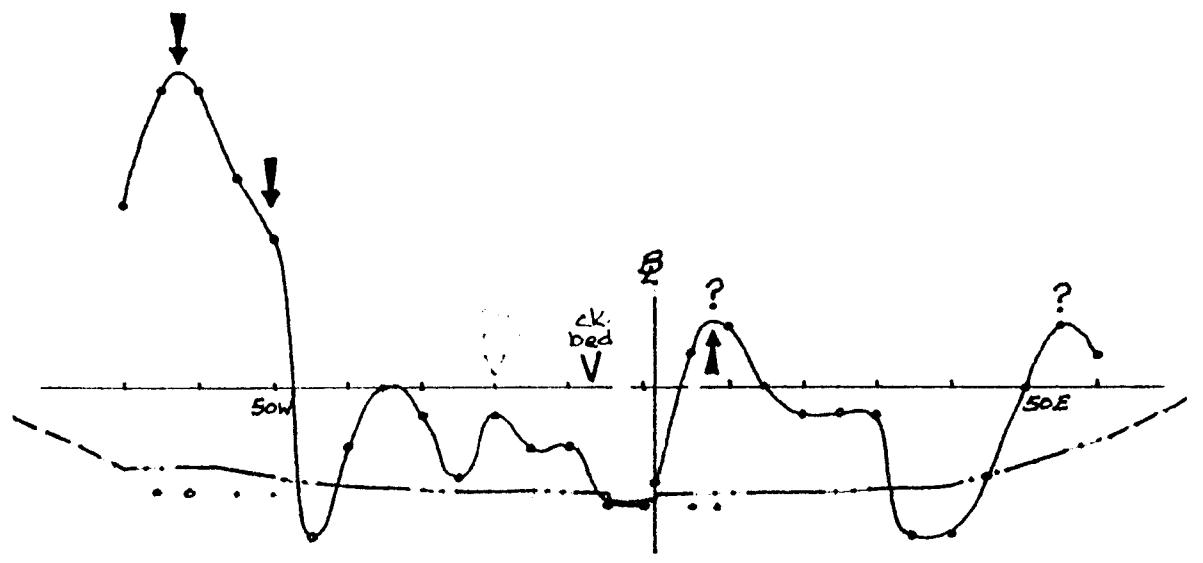


600γ  
550γ  
500γ  
450γ



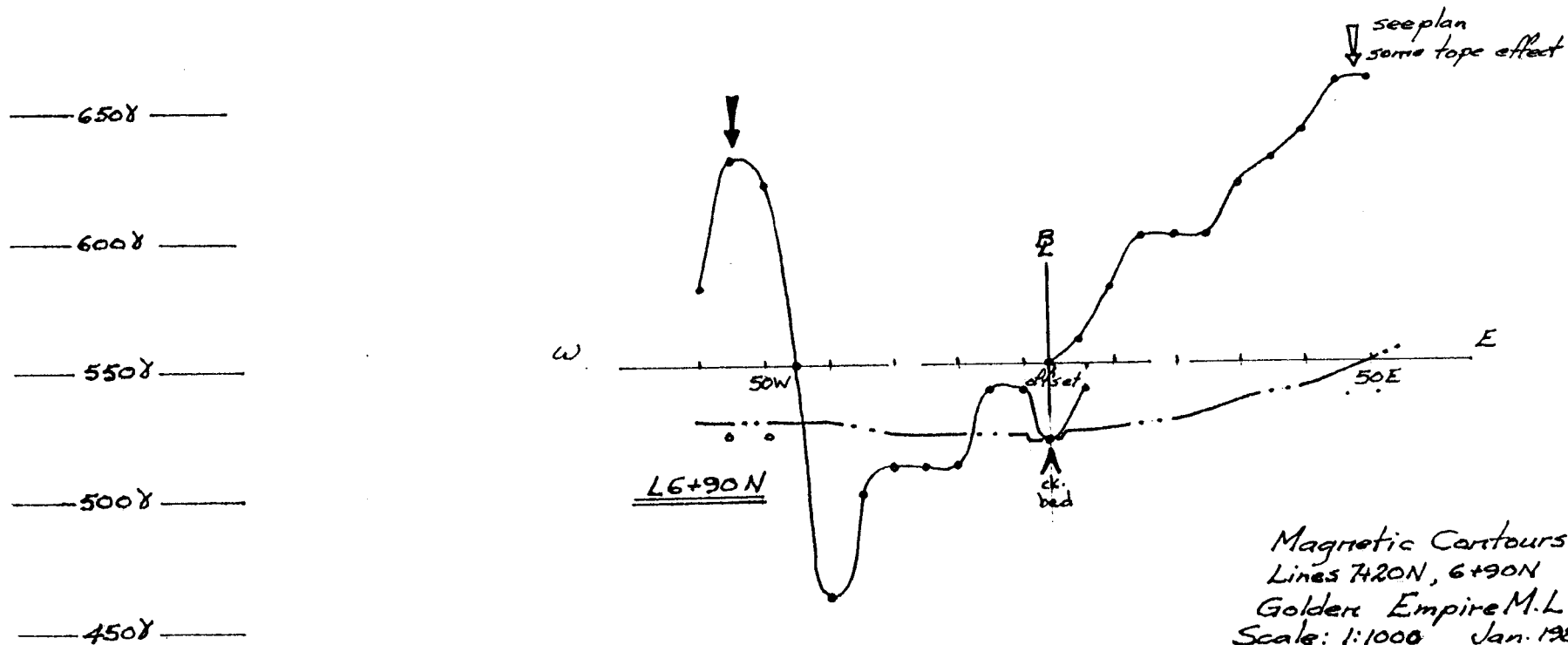
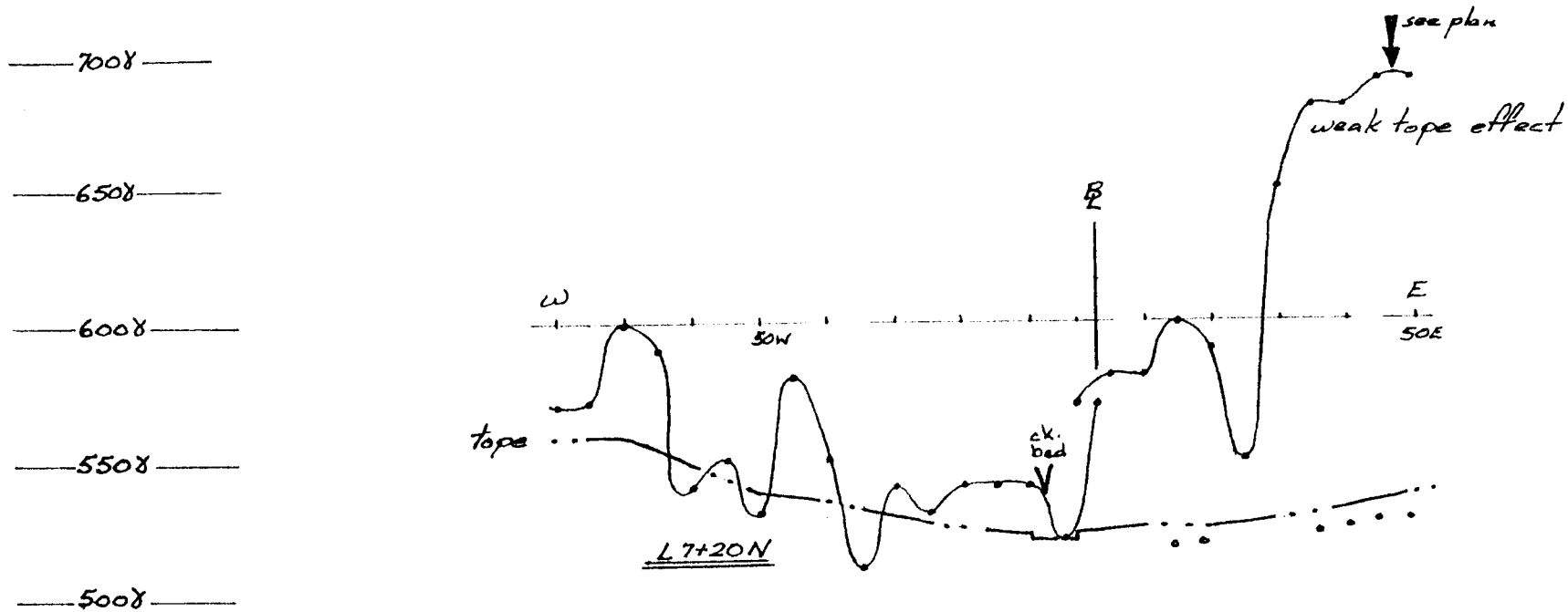
L6+60N

600γ  
550γ  
500γ  
450γ

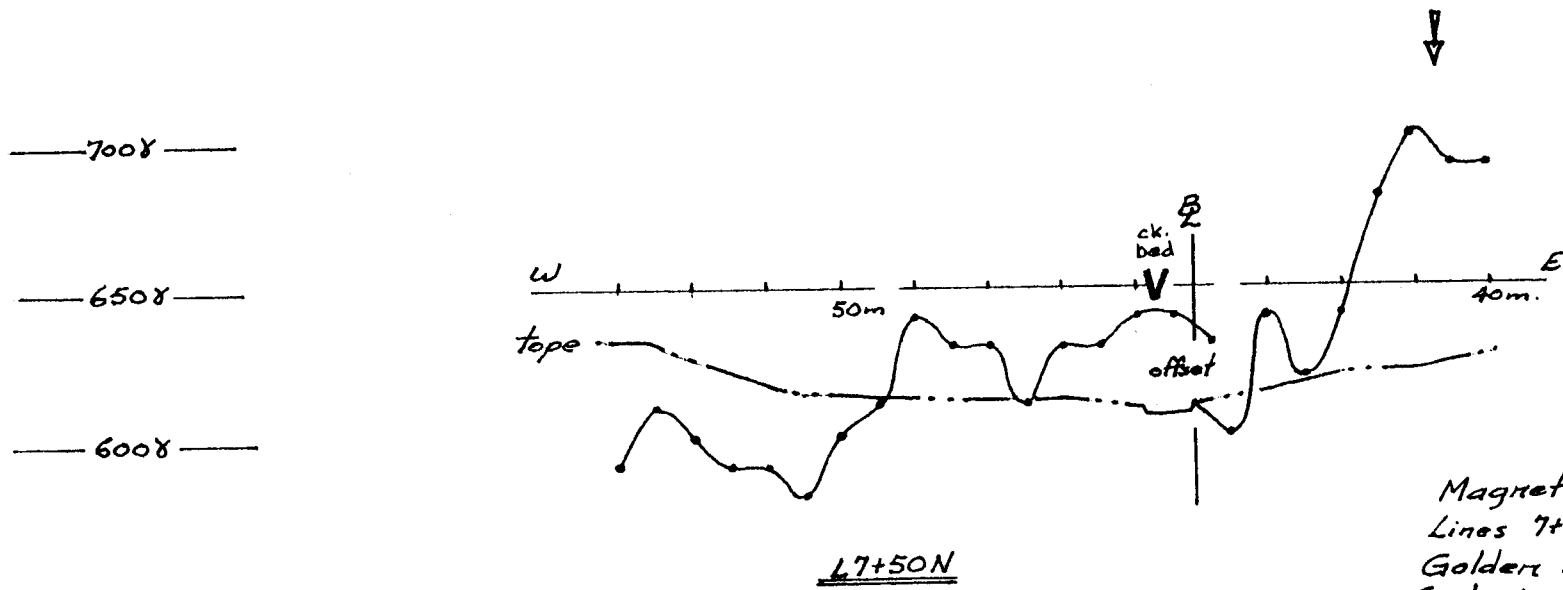
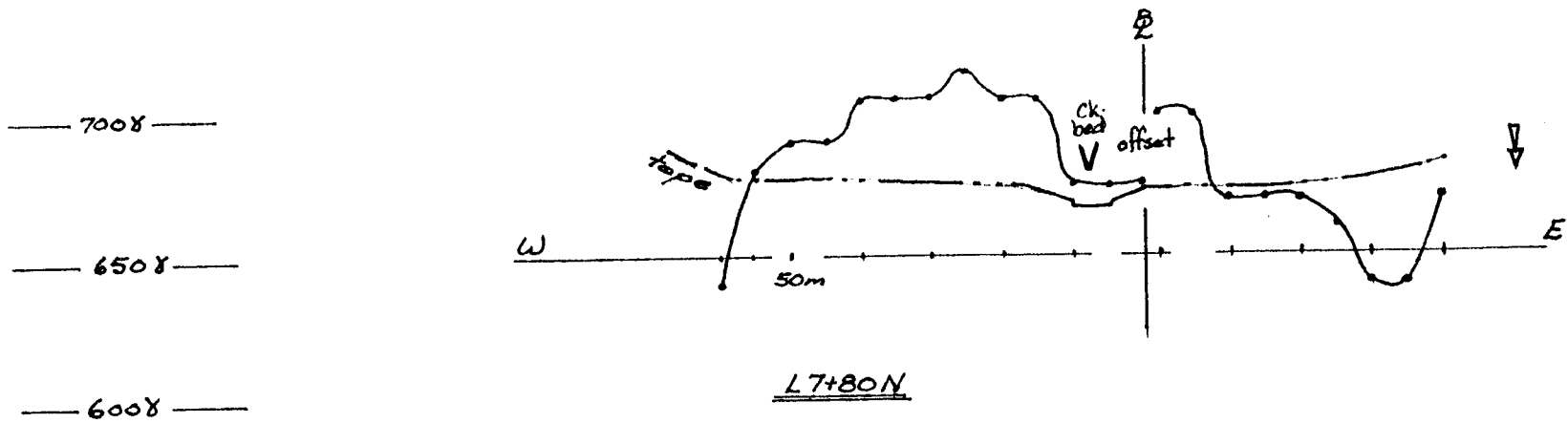


L6+30N

Magnetic Contours  
Lines 6+60N, 6+30N  
Golden Empire M.L.  
Scale 1:1000 Jan. 1982



Magnetic Contours  
 Lines 7+20N, 6+90N  
 Golden Empire M.L.  
 Scale: 1:1000 Jan. 1982



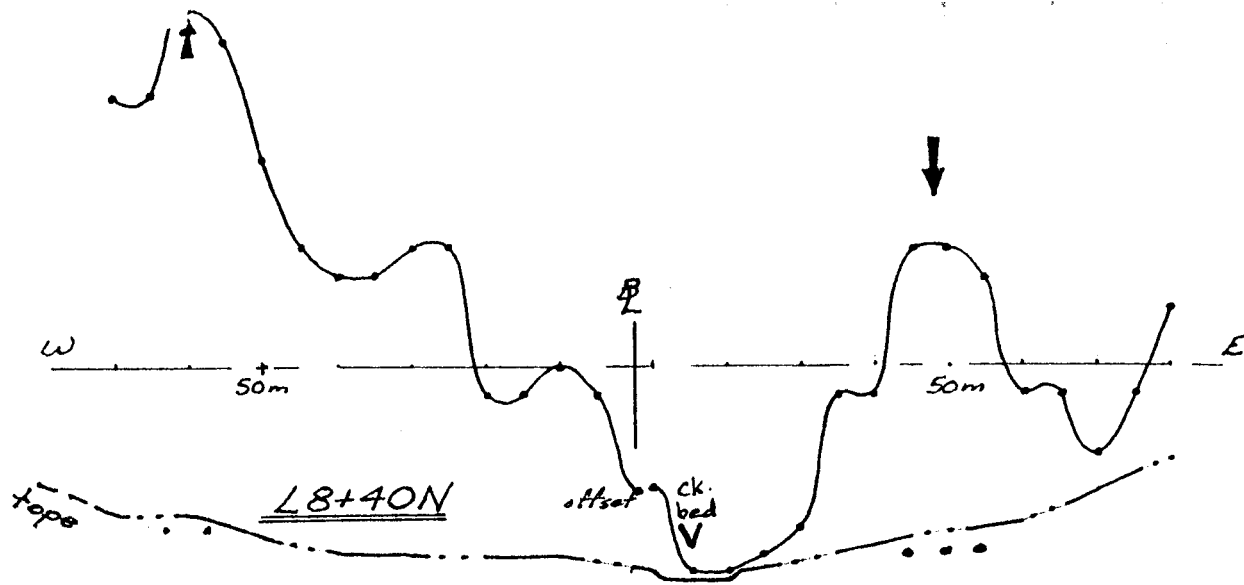
Magnetic Contours  
Lines 7+80N, 7+50N  
Golden Empire M.L.  
Scale: 1:1000 Jan. 1982

— 750γ —

— 700γ —

— 650γ —

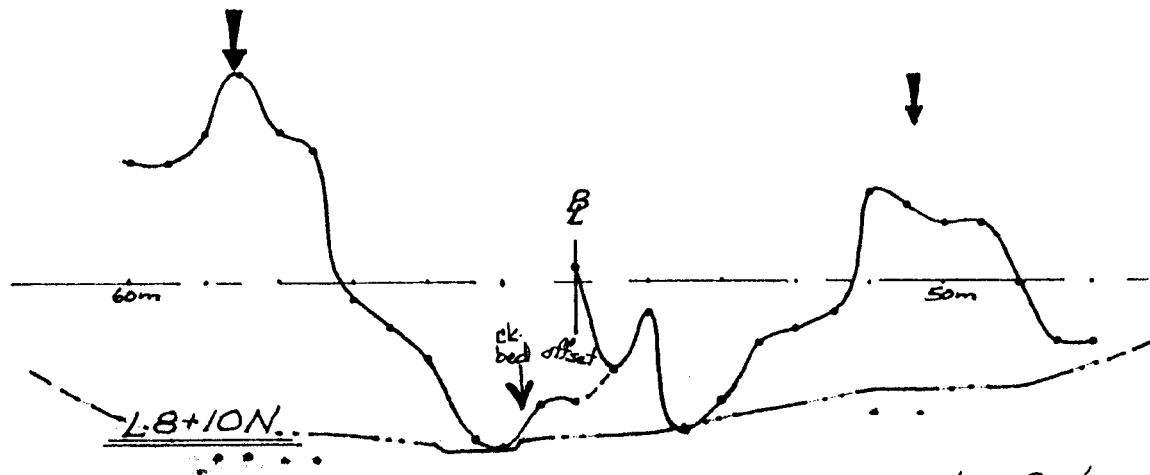
— 600γ —



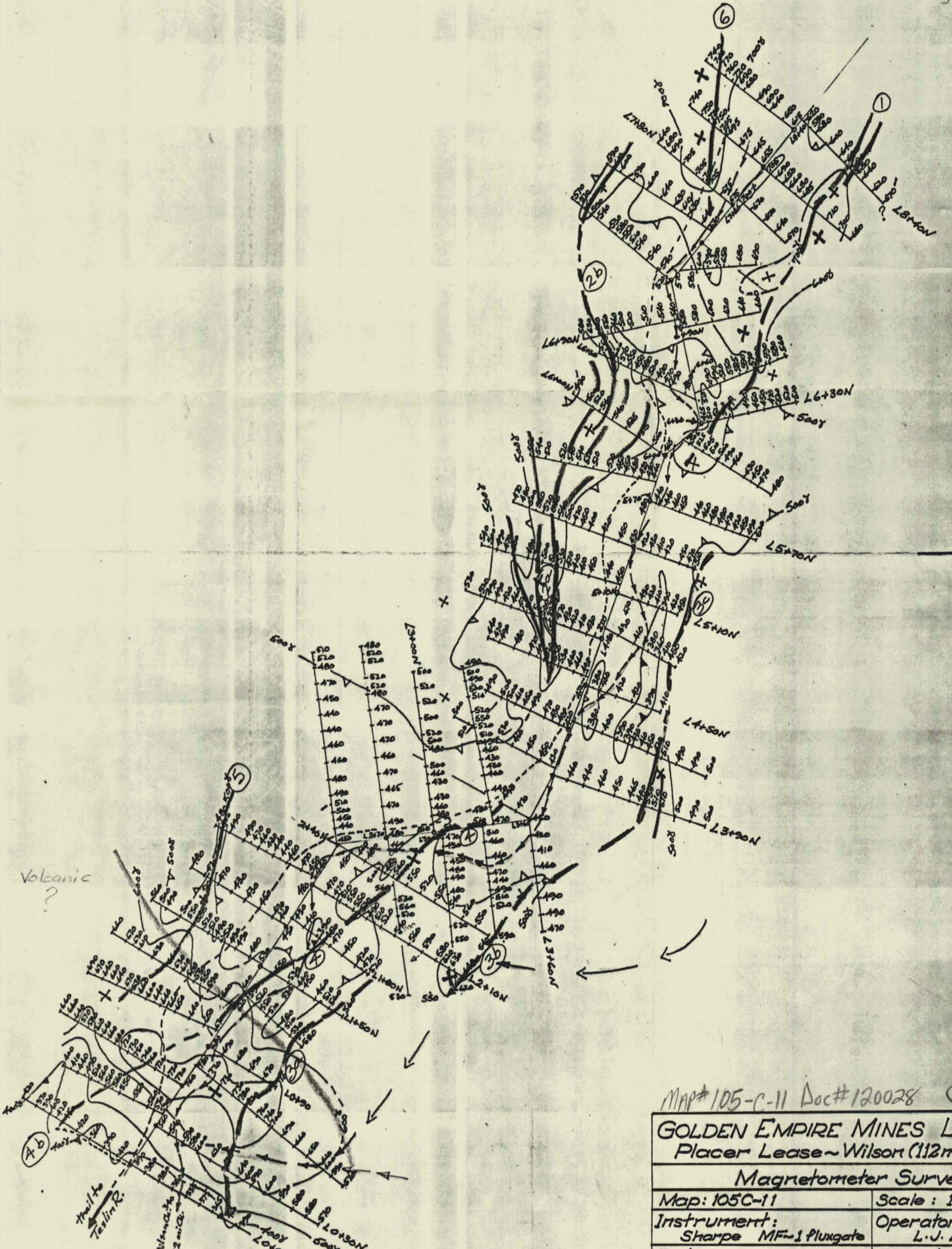
— 750γ —

— 700γ —

— 650γ —



Magnetic Contours  
 Lines 8+0N, 8+10N  
 Golden Empire M.L.  
 Scale: 1:1000 Jan. 1982



MAP# 105-C-11 Doc# 120028 337

GOLDEN EMPIRE MINES LIMITED Placer Lease ~ Wilson (112 mi) Ck.	
Magnetometer Survey	
Map: 105C-11	Scale: 1:2000
Instrument: Sharpe MF-1 Fluxgate	Operator: L.J. Lebedoff
Date: May 1955	Signed: Gary Lee

Pg 24

ARRIVED BRENER LAKE  
 @ 10:35 A.M. DEC. 1/81.  
 LEFT W.H.S.E. @ 9:50 A.M.  
 VERY MILD COOLING DURING  
 DAY. SPENT FULL DAY  
 SETTING UP CAMP &  
 MONITORING MAG.

JOB. 112 MILE CREEK - WILSON CREEK  
 DATE. DEC. 1/81 PAGE. 1

MAG SET UP 40M. FROM CAMP  
 FOR MONITORING THROUGH THE  
 DAY. FINE ADJUSTED TO READ  
 260 ON THE 1000 SCALE  
 11:25 A.M.

TIME	BASE	READING IN GAMMA'S
11:25 A.M.	CAMP	260
11:40		260
12:30 PM		235
1:20		210
2:05		210
2:35		200
3:25		210
4:10		210
4:25		210
5:40		220

9:15 DEC. 2 210

HEADED FOR CREEK BY WHAT TURNED  
 OUT TO BE ROUND ABOUT ROUTE.  
 DID A RECCLE OF THE AREA TO  
 FAMILIARIZE & LOCATE BASE  
 LINE FOR LEASE.

PARTY CHIEF .....

WEATHER .....

△ MAIN BASE STATION 0+00 LOCATED  
AT JUNCTION OF CREEK TRAIL &  
LAKE TRAIL. WORKING UPSTREAM  
FROM HERE. BEARING 34° N.

△ 2:00 P.M. - 380' 6  
2:20 P.M. 380

LINE	STA.	TIME	ROD GRAPHS	
B.L.	0+00N	2:35 P.M.	390	390
"	0+30N		560	560
	0+60N		760	760
	0+90N	2:47	680	680
	0+120N		620	620
	0+150N	2:55 P.M.	530	530

RETURNING TO △

B.L. △	0+00	3:03 P.M.	390	<
0+00 △	0+10E		390	< 380
PL (E)	0+20E		380	380
	0+30E		380	380
	0+37E		340	340
	0+40E		330	335
	0+50E		370	375
	0+60E		360	365
	0+70E		400	410
	0+80E		380	390
△	0+00	3:50 P.M.	380	390

LEFT 4:00 P.M. TO WALK BACK TO CAMP ON  
PARTY CHIEF

WEATHER CLEAR & MILD 0-22° F

FOR THE MAG WORK. LOCATED  
OLD FOOT TRAIL ON CREEK & FOLLOWED  
IT OUT TO BRENER LAKE TO SWAMPY  
AREA AT END OF LAKE. DECIDED  
TO LOCATE △ BASE STATION AT THE  
TRAIL JCT. ON CREEK. SEEMS TO  
BE FAIR BENCH AREAS TO COVER  
UPSTREAM FROM HERE.

LOCATED AT BASE OF 2ND BENCH  
GENTLY SLOPING FLOOD PLAIN TO CREEK

" " " SPRUCE GROWTH

BUCKLE UP 30' AT TRAIL  
EDGE OF CREEK 1M DROP TO CREEK LEVEL  
INCREASE 80' TO 100'  
EDGE OF CREEK, ROD IN BENT + 0+11' OF CREEK  
2M. RISE ON 1/2 BENCH  
15M. WIDE BENCH

END OF BENCH, START OF STEEP RISE TO RIDGE

3 M. RISE TO 0+70E

3 M. RISE TO 0+80E, GETTING INTO PINE GROWTH

MAIN BASE STATION

NEW TRAIL ARRIVED 4:20  
PAID CHIEF

DARK AT 4:35

LINE	STA	TIME	READING GAMMAS	Corrected
B.L. A	0+00	9:30 A.M.	360	Dip-slip
	0+30N		540	
	0+60N		710	
	0+90N		620	
	1+20N		560	
	1+50N	9:51 A.M.	500	
RETURN TO A				
B.L. A	0+00	9:59 A.M.	350 <sup>+30</sup>	380
P.L. 0+00 A	0+10N		390	420
	0+20N		360	390
	0+30N		330	360
	0+40N		390	420
	0+50N		420	450
	0+55N		390	420
	0+60N		370	400
	0+70N		390	390
	0+80N		370	370
	0+80N		390	420
P.L. B.L. 30N	0+90N		380 <sup>+20</sup>	400
	0+75N		390	410
	0+70N		420	440
	0+55N		470	490
	0+60N		49	510
	0+50N		540	560
	0+40N		510	560
			530	550

PARTY CHIEF

WEATHER

2' UP FROM GRANITE 3908  
 2' " " " 3908  
 NO MAGNETITE IN ROCK?

2M. RISE TO BENCH (PINE & SPRUCE MIX)  
 10" DIA GRANITE BOULDERS ON SURFACE 2M. FROM STATION  
 CENTER OF BENCH (PINE)  
 BACK OF BENCH START RISE TO 2<sup>ND</sup> BENCH  
 3.5M RISE TO 2<sup>ND</sup> STATION (LIVE PINE & SPRUCE OLD TRAIL)  
 2.5M RISE TO NEXT (FLAT BENCH) NEXT  
 CENTER OF BENCH  
 MIDRIDGE  
 GENTLE RISE TO BACK OF BENCH  
 5.5M. STEEP RISE TO TOP OF BIG RIDGE  
 SLOPE OF GRANITE BENCH ON SURFACE  
 DIRECTION TOWNSHIP?  
 3M. UP ON STEEP RISE TO RIDGE (12" DIA GRANITE BDR)  
 BENCH GENTLY SLOPES DOWN  
 MIDRIDGE  
 GENTLY SLOPES DOWN  
 SLOPING DOWN INTO FIRST BENCH  
 1M. UP TO 2<sup>ND</sup> STATION

PARTY CHIEF

WEATHER

LINE	STA	TIME	RDG		
BL 30N	0+30W		530	+20	550
PL	0+20W		540		560
	0+10N		550		570
			570	ON BANK	570
PL	(0+00)	Non-Existent			
B.L. 30N	A	11:15 A.M.	540	+20	560
	0+10E		540		540
	0+42.5E		540		540
	0+20E		570		CREEK 570 JUNCTION
	0+25E		570		590
	0+30E		580		600
	0+40E		630	+10	620
	0+45E		630		650
	0+50E		650		670
	0+55		630	+10	640
	0+60E		620		640
	0+65		590		600
	0+70E		580		590
	0+80E		590		600
	0+90E		580		590
	1+00E		570		580
	1+10E		570		580
	1+20E	12:10 P.M.	560		570
				+0	

GRADUAL SLOPE 1M. DROP TO HERE

1M DROP TO HERE (FLAT of 1st BENCH)

8.2 M. N of ABL. 30N.

S P.L. ON 30N. IS 10M. OUT

CONTACT WITH B.L. 8.2 M. N of BL. 30N.

EDGE of CREEK (CREEK 1.5 M. WIDE)

FAIRLY HEAVY FLAGGING WITH 6629 WRITTEN ON

SMALL FLAT BENCH AT JOY. of CREEKS (EDGE of 2nd BENCH)

5M. DOWNSTREAM FLAGGINGS WITH 6609 ?

HM 6608 WRITTEN ON THEM.

CENTER of CREEK.

FLOOD PLAIN (Hvy. NARROW GROWTH)

FLOOD PLAIN " " "

EDGE of FLOOD PLAIN, 2M. RISE TO BENCH

TOP of BENCH

VALLEY of SIDE CREEK

FLAT BENCH

WEDGE of BENCH

GRADUAL SLOPE UP

1.5-M. RISE TO HERE

1M. " " " (LIGHT SPRUCE? B.B.)

1M. " " " (STEEP SLOPE 45 M. TO S.)

.5M. " " " (END of LINE)

.5M. " " " (VALLEY of SIDE CREEK)

PARTY CHIEF.....

WEATHER.....

PARTY CHIEF.....

WEATHER.....

LINE	STA	TIME	RDG				
B.L. 60N PL	1+20E		570	+0	570	GENTLY SLOPING DOWN (GROUND SPRING)	
	1+10E		590		590	10M. WIDE BENCH.	
	1+05		600		600	EDGE of CREEK IN BOTTOM	
	1+00E		610		610	" " " " OPPOSITE SIDE	
	0+90E		650		650	EDGE of FLOOD PLAIN START of SMALL CREEK	
	0+85E		650	-10	640	SMALL FLAT AREA	
	0+80E		670		660	END of FLAT BENEATH	
	0+75E		700		690	.5M. RISE TO FLAT & DOWN	
	0+70E		700		690	BASE of STEEP RIDGE SEPARATING VALLEYS	
	0+60E		710		700	3M. RISE TO HERE -	
	0+55E		750		740	4M. " " " "	
	0+50E		770		760	3M. " " " "	
	0+45E		830		820	EDGE of RIDGE DOWNSTREAM END of IT.	
	0+40E		800	-20	780	4M. DROP	
	0+30		750		720	4M. " "	
	0+25	-500	740		720	2.5M. " "	
	0+20		750		730	2M. " DROP-BASE of RIDGE	
	0+15		780		760	5M. WIDE BENCH TO CREEK. EDGE of CREEK	
	0+10		790		770	OPPOSITE EDGE of CREEK	
	0+05		790		770	1M. RISE TO BENCH	
	0+00		800		780	GRADUAL SLOPE	
15M. N of B.L. 60N						CHECK BACK TO STATION	
B.L. 60N	Δ	1:05 P.M.	780	-20	760		
B.L. 0+00	Δ	1:09 P.M.	410			MAIN BASE STATION	
" "	Δ	1:45 P.M.	420			" " " "	
B.L. 60N	Δ	1:55 P.M.	780	-20	760	B.L. STATION	
	0+05W		750		730	.5M RISE GENTLE SLOPE TO HERE	
	0+10W		750		730	" " " "	
	0+15W		740		720	" " " "	
	0+20W		740		720	" " " "	
	0+25W		780		760	" " " "	
	0+30W		760		740	1M. RISE " " " "	
			770		750	" " " "	
	0+40W		750		730	.5M " " " "	
			740		720	FLATTER BENCH AREA	
	0+50N		700		680	FLAT	

PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER

LINE	STA	TIME	ADG.				
B.L. 60N	0+55N 0+60N		690 670	-30	660 640		FLAT BENCH
PL	0+65N 0+70N		640 610		610 580		FLAT BENCH BASE OF STEEP CLIMB TO 2ND BENCH (12-15M. RISE)
	0+75N 0+80N		600 610		570 640		ON STEEP SIDE HILL (WASHED GRANITIC B.L. 85)
PL (W)	0+85N 0+90N		690 690		660 660		TOP OF RIDGE ON FLAT ON TOP.
B.L. 90N	0+90N	2:27 P.M.	720		690		ON EDGE OF TOP OF RIDGE
	0+85		700		670		
	0+80N		670		640		5M. DROP TO HERE
	0+75N		700	-40	660		2M. WIDE FLAT SPOT
	0+70N		680		640		1M. DROP TO HERE (START OF NARROW FLAT BENCH)
	0+65		710		670		MIDDLE OF BENCH
	0+60N		710		670		EDGE OF BENCH
	0+55N		700		660		
	0+50N		640		600		5M. STEEP DROP TO HERE
	0+45N		680		640		GRADUAL SLOPE DOWN FROM HERE
	0+40N		680		640		" " " " " "
	0+35N		700		660		CROSSING FOOT TRAIL
	0+30N		690		650		GRADUAL SLOPE
	0+25		700	-50	650		
	0+20N		690		640		EDGE OF CREEK SIDE CHANNEL
	0+15		700		650		CENTER OF SIDE CHANNEL
	0+10N		700		650		FLAT TO B.L.
	0+05		700		650		
	0+00		720		670		11M. NORTH OF B.L. 90N
	Move BACK TO B.L. 90N						Δ
ISL 90N	Δ	2:48 P.M.	730	-50	680		
B.L. 60N	Δ	2:55	820				
B.L. 90N	Δ	3:05	730	-50	680		
PL (E)	0+05		740		690		FLAT FLOOD PLAIN
	0+10E		740		690		AT EDGE OF CREEK
	15		740		690		OPPOSITE EDGE OF CREEK
	0+20E		730		680		FLAT BENCH 1M. ABOVE CREEK LEVEL
	25						END OF BENCH, START OF STEEP CLIMB UP RIDGE
	0+30E		740		690		2M. RIBBON SLOPE
	35		700	-40	660		
	0+40E		710		670		5M. RISE TO HERE
	0+45		700		660		
	0+50		750		710		8M. RISE TO HERE (ON TOP OF RIDGE)

PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER

NARROW TOP GOING N. TO  
NEXT LINE

LINE	STA	TIME	RDL.		
<del>BL 120N</del>	0+50E	3:20 P.M.	620	<sup>40</sup>	580
PL (E)	45		620	-30	590
	0+40E		560		530
	35		540		510
	0+30E		510		480
	25		540		510
	0+20E		540		510
	15		570	-20	560
	0+10E		580		560
	0+05		610		590
	0+00		620		600

MOVE BACK TO A BL 120N

BL 120N A 3:40 P.M. 640<sup>-20</sup> 620

BL 90N A 3:43 P.M. 700<sup>-20</sup> 680

BL 0+00 A 3:55 410<sup>-20</sup> 390

RETURN TO CAMP

FLAT ON TOP OF RIDGE

EDGE OF RIDGE  
3 M. DOWN SLOPE.

6 M. DOWN TO HERE, BASE OF SLOPE

START OF FLAT BEACH

FLAT BEACH

EDGE OF CREEK

" " " TAKEN IN CREEK BOTTOM

1 M. RISE FROM CREEK

10 M. NORTH OF BL 120N

MAIN BASE STATION



LINE	STA	TIME	RDG		
B.L. A	1+20	9:35 A.M.	720 <sup>-00</sup>	620	
A	1+50		630	530	
A	1+80		550	450	
A	2+10		580	480	
A	2+40	>	550	450	<u>BRG. CHANGE TO 84°</u>
A	2+70		580	480	
A	3+00	9:51 A.M.	610	510	RETURN TO Δ 1+20
Δ	1+20	10:05	720 <sup>-100</sup>	620	CREEK IS 10M. E & 2M. DOWN
B.L. 1+20N	0+05		730	630	FLAT BENCH AREA
PH (W)	0+10W		700	600	
	+15		690	590	
	0+20W		690	590	
	25		690	590	
	0+30N		650	550	END OF BENCH
	38		650	550	4M. WIDE CREEK BED FROM GROUND SPRING (OPPOSITE)
	0+40W		690 <sup>-110</sup>	580	HALF WAY UP
	45		720	610	8M. STEEP RISE TO HERE
	0+50W		740	630	
	55		770	660	2M. RISE TO HERE
	0+60N		760	650	BENCH AREA (BOTTOM END OF ESKER)
	65		740	630	" "
	0+70W		730 <sup>-120</sup>	610	STEEP SLOPE UP
	75		730	610	3M. RISE TO HERE
	0+80N		760	630	
	0+90W		790	670	6M RISE TO HERE; TOP OF EDGE OF ESKER
			780	660	FLAT TOP
			740	660	10M. FROM TOP OF ESKER 4M. DOWN
B.L. 1+50N	0+80N		680	560	
PH (W)	0+70W		630 <sup>-130</sup>	500	3 M. DROP TO HERE (BASE OF SLOPE, START OF BENCH)
			620	490	
	0+60N		640	510	SLIGHT DEPRESSION HERE
			630	500	
	0+50N		680	550	1.5 M. RISE TO HERE, TOP OF ESKER FLAT, STEEP
			710	580	DROP TO HERE
	0+40W		650	520	
			640	510	3M. DROP TO HERE
	0+30W		630 <sup>-140</sup>	490	3M. DROP TO HERE, BASE OF SLOPE, START OF BENCH
			650	510	

PARTY CHIEF \_\_\_\_\_

WEATHER

OVERCAST & MILD

PARTY CHIEF \_\_\_\_\_

WEATHER

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LINE	STA	TIME	RDG				
B.L. 150N	0+25 0+20W		630	-140	490		
	0+10W		630		490		
	0+00		630		490		
			630		490		
			630		490		
			630		490		
B.L. Δ	1+50N	11:00 A.M.	670	-140	530		
B.L. 1+50N	0+05 0+10E		690		550		
PL (E)	0+20E		690		550		
	0+30E		670		530		
	0+40E		670		530		
	0+40E		600	-150	450		
	0+40E		610		460		
	0+50E		660		510		
	0+60E		710		560		
	0+60E		720		570		
	0+60E		710		560		
B.L. 1+80N	0+160E		670		520		
PL (E)	0+150E		630	-160	470		
	0+40E		580		420		
	0+40E		610		450		
	0+40E		610		450		
	0+30E		620		460		
	0+30E		630		470		
	0+20E		640		480		
	0+20E		550		490		
	0+10E		570	-170	400		
	0+10E		580		410		
	0+00		600		430		
	0+00		600		430		
BL. A	1+80W	11:40 P.M.	620	-170	450		
BL A	1+50N	11:42	690	-160	530		
BL. 1+80N	0+105 0+10W		620		460		
	0+20W		630		470		
	0+20W		620		460		
	0+20W		610		450		
	0+30W		580		420		
	0+30W		590		430		
	0+40W		580		420		
	0+40W		590		430		

STREAM BED & DRAINAGE FROM POTHOLES WERE WE  
CAMPED ON  
CAME OUT 1M. SHORT & 1.5M N of Δ<sup>2</sup> FLAT BENCH  
AREA

FLAT BENCH (GRADUAL SLOPE TO CREEK)

1M. DROP TO CREEK BED

LARGE GRANITE BEDS,  
OPPOSITE SIDE OF CREEK, STEEP CLIMB UP TO RIDGE  
1M. RISE TO HERE

5M. RISE TO HERE

7M. RISE TO HERE (TOP OF ESKER)

FLAT TOP OF ESKER (STARTS DROPPING TO OTHER VALLEY)  
4M. DROP FROM TOP OF ESKER

5M. DROP TO HERE (BASE OF RIDGE - START OF BENCH)

FLAT BENCH

FLAT

END OF BENCH

2.5M. STEEP DROP TO CREEK (GRANITE BEDS)

IN EDGE OF CREEK CHANNEL

1M. RISE TO BENCH

NARROW SIDE CHANNEL OF CREEK

1M. RISE TO B.L. (6M. N of Δ 1+80N)

1M. GRADUAL RISE TO HERE - FLATTENS OUT

FLAT

OLD FOOT TRAIL & C.L.

FLAT

BASE OF SLOPE

2M. RISE TO HERE

LINE	STA	TIME	Rdg	
B.L. 1+80N	0+50N		620 <sup>-160</sup>	460
			630	470
			670	510
			630	470
			620	460
0+70N	0+70N		640	480
			640	480
			640	480
			640	480
			640	480
B.L. 2+10N	0+70N		640	480
			650	500
			650	490
			640	480
			650	490
			630	470
			620	460
			590	430
			600	440
			600	440
	620	460		
	620	460		
	630	470		
	610	450		
	620	440		

CAME OUT 1M. 510 FT

B.L. A 2+10N 12:10 P.M. 640<sup>-160</sup> 480

BRAD OUT OVER 35M ON EAST

T. RESHOT IT, LINE NOW IN

B.L. A 2+10N	1:30 P.M.		585 <sup>-100</sup>	480
			570	470
			570	470
			570	470
			610	510
			650	550
			650	550
			670	570
			590	490
			620	510
	630	520		
	640	530		
	650	540		
	670	560		
	670	560		

PARTY CHIEF .....

WEATHER .....

7M. RISE TO HERE - LEVELS OUT

FLAT

END OF BENCH - START OF SLOPE

3M. RISE TO HERE (TOP EDGE OF ESKER)

FLAT TOP OF ESKER

FLAT TOP "

1.5M. DROP TO HERE

2M. DROP TO HERE GRADUAL

4M. STEEP DROP TO HERE

4.5M " " " " BASE OF SLOPE (BENCH STARTS)

FLAT BENCH

FLAT

EDGE OF CREEK

CENTER OF CREEK

IN CREEK BUT ON EDGE

2 1/2 5M. N of Δ & 410N.

PICKET LINE, COMPASS ERROR?  
 RIGHT LOCATION

FLAT MINI-BENCH

END OF BENCH

3.5M. RISE TO HERE

1M. RISE TO HERE - LEVEL

LEVEL DOWNSTREAM TOE OF ESKER

4M. STEEP DROP TO HERE - LEVEL BENCH LOCATED

BETWEEN TWO ESKERS (POSSIBLY OLD DRAINAGE

FROM 1/2 MILE OR E. SIDE CREEK - VERY MIN-

IMAL CONTOUR IN THIS LITTLE VALLEY

BETWEEN THE CREEKS

PARTY CHIEF .....

WEATHER .....

LINE	STA	TIME	RDG	560
B.L. 2+10N	+75 D+80E		670	INCANNE - 5M. ABOVE 550
	+85 0+90E		710	-120 590
	1+00E		700	580
	1+10E		740	620
			750	630
			760	640
			760	640
B.L. 2+40N PL (E)	1+10E		670	-130 540
	1+00		890	550
	0+90E		880	550
	0+80E		700	GRANITE 570
	0+70		690	560
	0+60E		670	550
			670	540
			680	550
			660	AD 520
			660	INCANNE - SIDE EDGE 520
	0+55E		680	540
	0+50E		690	550
	0+40E		710	570
	0+30E		700	560
	0+20E		630	-150 480
	0+10E		650	500
			650	480
			630	480
			610	460
			600	450
	0+7.5E		570	420
B.L. 2+40 A	0+05 0+00	2:30 P.M.	620	
			600	-150 450

PARTY CHIEF

WEATHER

GRADUAL IM. DROP TO DEPRESSION - LOOKS LIKE  
OLD CHANNEL - DRAWING 112 M. CRK. INTO E.  
SIDE CREEK.

SLIGHT DEPRESSION

.5M RISE TO HERE.

LEVEL. EDGE of E. SIDE CRK. \*  
3M. DROP TO IT.

2M. UP FROM BENCH ON SIDE of 25M. HIGH ESKER

8M. " " " " FOLLOWING of ESKER  
DOWNSTREAM EDGE

B-LDRS VIS. BAE  
9M. UP FROM BENCH. ] GRANITE BLDG.

2M. UP " " ] 8-16" DIA.

BASE of SLOPE ON FLAT BENCH  
FLAT

OLD CHANNEL - DRAWING 112M. TO THE S.E.  
LARGE GRANITIC BLDGS.

RDG. 5' AWAY FOR BLDG. - 630

3' - 640

1' - 730

6" BUT DIRECTLY OVER 1150

TAKEN STANDING IN PILE of GRANITIC BLDGS.  
2M. RISE TO HERE FROM CHANNEL.

LEVEL

2M. DROP TO HERE  
VERY GRADUAL SLOPING BENCH

" "

" "

BENCH ENDS

2M. DROP INTO CREEK CHANNEL -  
CENTER of CREEK

2M. ABOVE CREEK  
RIGHT of PILKRET

PARTY CHIEF

WEATHER



JOB.....

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JOB.....

DATE..... PAGE 6

LINE	STA	TIME	RDG - 160	
B.L. 2+70N	0+30N		620	460
			625	465
	0+20N		620	460
			630	470
	0+10N		650	490
			650	490
	0+00		630	470
			630	470

0+00 1M. N. of Δ 2+70N

B.L. 2+70N Δ 3:25 P.M. 640<sup>160</sup> 480B.L. 2+40N Δ 3:27 P.M. 605<sup>155</sup> 450

B.L. 2+70N

TOD LATE IN DAY TO FINISH  
FOR REMAINDER

2M. DROP TO HERE

LEVELS OUT

FOATS

1.5M DROP TO HERE

COMPLETE CIRCUIT, SO CUT LINE

PARTY CHIEF .....

WEATHER .....

PARTY CHIEF .....

WEATHER .....

LINE	STA	TIME	RDS.	
B.L. 2+70N	Δ	9:45 A.M.	430 <sup>+50</sup>	480
3+00	Δ		460	510
3+30	Δ		460	510
3+60	Δ	→ 30°	400	450
3+90	Δ	+ 21°	400	450
4+20	Δ		380 <sup>+40</sup>	420
4+50	Δ		370	410
4+80	Δ	10:10 A.M.	390	430
2+70N	Δ	10:19	440 <sup>+40</sup>	480
B.L. 2+70N	0+05		440	480
PL (E)	0+10E		420	460
	0+20E		450	490
	0+30E		460	500
	0+40E		440	480
	0+50E		520	560
	0+60E		500	530
	0+70E		530 <sup>+30</sup>	530
	0+80E		530	560
	0+90E		480	510
	1+00		510	540
	1+05		520	610
			520	550
			510	540
			510	540
			530	570
			520	550
			500	530
			480 <sup>+20</sup>	500
			510	530
			510	530

PRDG. BETWEEN 2+70N & 3+00 : 2+85 - 530, 550

B.L. 3+00N HODE 11:00 A.M. 600<sup>+20</sup> 620  
PL (E)

PARTY CHIEF

WEATHER

BRG. CHANGE TO 30° (CREEK XING 3+60)  
CRK XING AT 4+05  
CREEK XING 4+22  
CRK XING 4+35 (BRG CHANGE TO 55°  
(ON OLD FOOT TRAIL))

RETURN TO START (FLAT BENCH AREA  
FLAT  
EDGE OF CREEK - 1 M. ABOVE  
OPPOSITE EDGE OF CREEK  
FLAT  
END OF FLAT 1.5 M. SHARP RISE  
FLAT (INTERSECT WITH 2+40N 0+40E)

FLAT BENCH

EDGE OF BENCH 2.8 M. DROP TO NEXT STATION  
BEGIN FLAT BENCH IN VALLEY BETWEEN LARGE ESKERS

FLAT

INTERSECT WITH 2+10N 0+70E (END FLAT AREA)  
3M. RISE ON SIDE OF DIS. ESKER TO HERE

2M DROP TO HERE

FLAT AT BASE OF ESKER

FLAT  
EDGE OF E. SIDE CREEK

2+90 - 560, 2+95 - 560 (OLD CHANNEL IN VALLEY  
BETWEEN ESKERS

SAME LOCATION AS STATION HIDE  
ON EDGE OF CREEK



PARTY CHIEF

WEATHER

LINE	STA	TIME	RDG	+20
B.L. 3+00N	0+95	B.	600	620
PL (E)	0+90E		590	610
	0+80E		580	600
	0+70E		580	600
	0+70E		540	+10 550
	0+60E		520	550
	0+50E		530	540
	0+40		520	530
	0+30E		530	540
	0+20E		470	480
	0+10E		470	480
	0+00		480	490
	0+20E		440	450
	0+15E		480	480
	0+12.5		450	450
	0+10E		430	430
	0+00		420	420
	0+00	5M. N of Δ 3+00N	430	430
	0+00		470	470
	0+00		500	500
B.L. 3+00N	Δ	11:25 A.M.	510 <sup>+</sup>	510
B.L. 3+00N	0+10W		500	500
PL (W)	0+20W		480	480
	0+20W		460	460
	0+30W		430	430
	0+30W		430	430
	0+40W		430	430
	0+40W		460	460
	0+50W		500	500
	0+50W		490	490
	0+60W		480	480
	0+60W		500	500
	0+70W		520	520
	0+70W		510	500
	0+60W		510	500
	0+60W		530	520
	0+60W		530	520
	0+90W		540	530
	0+90W		530	520
	1+00W		510	500
	1+00W		510	500

PARTY CHIEF

WEATHER

FLAT BENCH

" "

FLAT ENDS, BASE OF ESKER (O/S ESKER  
A.M. RISE TO HERE ON "

2M. RISE TO HERE (INTERSECTS BL. 2+40N, 0+85E

1M. RISE TO  
2M. DROP TO HERE, START OF FLAT

FLAT BENCH

" "

GRANITE BLDR. 2M. AWAY

EDGE OF CREEK + 1M. ABOVE CHANNEL  
IN CREEK BOTTOM

OPPOSITE SIDE 1M. ABOVE CHANNEL  
STEEP 5M. RISE TO HERE  
ON FLAT BENCH

FLAT ON SMALL ESKER? (OLD FOOT TRAIL  
PRONOUNCED DEPRESSION

2M. GRADUAL DROP TO HERE (OLD CHANNEL? DEPRESSION  
STILL IN DEPRESSION

2M. RISE TO HERE (BASE OF HILL)

GRANITE BLDR. 1M. AWAY  
5M. RISE TO HERE (TOP OF 12" GRANITE BLDR.)

2M. RISE " "

2M. " " "

2M. " " "

1M. " " " (START OF FLAT BENCH

FLAT BENCH

FLAT BENCH (3M. RISE TO TOP OF ESKER

PARTY CHIEF

WEATHER

LINE	STA	TIME	ADG		
B.L. 3130N	N00W	11:49 A.M.	510	-20	490
PL (W)	0+90N		520		500
	0+80N		510		490
	0+70W		520		500
	0+60W		530		510
	0+50W		540		520
	0+40W		570		550
	0+30W		570		520
	0+20W		530		510
	0+10W		510		490
	0+00		490	-20	460
			460		430
			460		430
			490		460
			480		450
			470		440
			470		440
			510		480
			510		480
			500		470

0+00 7 M. N of  $\Delta$  3130N

B.L. 3130N  $\Delta$  12:15 P.M. 540<sup>-30</sup> 510

B.L. 3100N  $\Delta$  12:17 PM 540<sup>-30</sup> 510

B.L. 3130N  $\Delta$  1:00 P.M. 520<sup>-10</sup> 510

0+05 FIRE 520 510

0+20E 470 460

0+30E 480 470

0+40E 470 460

0+50E 480 470

0+60E 460<sup>-20</sup> 440

0+70E 510 490

0+70E 1:18 P.M. 530 510

0+70E 540 520

0+70E 570 550

0+70E 590 570

0+70E 610 590

B.L. 3160N 0+70E 500<sup>-30</sup> 470  
PL (E)

PARTY CHIEF

WEATHER

ON FLAT BEACH ON ESKER
" "
" "
" "
EDGE OF BEACH 1.5 M DROP TO HERE
5M. STEEP DROP TO HERE $\S$ GRANITE BLTDRS.
5M. " " " " BASE OF HILL - FLAT STARTS POSSIBLY OLD CHANNEL - SLIGHT DEPRESSION FLAT BEACH - INTERSECTED BY B.L. 3160N 0+25W
FLAT
FLAT
FLAT

LIT FIRE - CLEAR & COLD ON FINGERS

FLAT  
3M. STEEP DROP TO HERE - FLAT BEACH

FLAT  
CREEK EDGE

1M. DROP - CENTER OF CREEK

FLAT - BASE OF HILL

5M. RISE TO HERE

2M. RISE TO HERE

2M. " " "

TOP NARROW RIDGE ON ESKER - DROPS  $\rightarrow$  STRAIGHT OFF  
ON OTHER SIDE

4M. DROP TO HERE

PARTY CHIEF

WEATHER



LINE	STA	TIME	Rdg		
B.L. 3+90N	A	2:07 P.M.	500 <sup>50</sup>	450	BEG. CHANGE TO 210 UPSTREAM
	0+10E		440	440	SLIGHT DEPRESSION IN COVERFLOW CHANNEL?
	0+20E		510	460	1M. RISE TO HERE
	0+30E		480	430	FLAT MIN. BENCH - START OF SIDE AHD
	0+40E		490	440	3M. RISE TO HERE
	0+50E		510	460	6M. RISE " "
	0+60E		490	440	6M. " " "
	0+70E		500	450	5M. " " " TOP EDGE of ESKER
	0+80E		515	465	FLAT TOP
	0+90E		540 <sup>-60</sup>	480	FLAT " "
	1+00E		590	530	FLAT (ESKER WIDENING CONSIDERABLY)
B.L. 4+20N	0+90E		570 <sup>-70</sup>	510	FLAT TOP of ESKER
	0+80E		550	490	" "
	0+70E		560	490	" "
	0+60E		560	490	EDGE of ESKER FLAT
	0+50E		540	470	3M. DROP TO HERE
	0+40E		520	450	5M. " " "
	0+30E		490 <sup>-80</sup>	410	6M. " " "
	0+20E		510	430	5M. " " " - BOTTOM of SLOPE - FLAT
	0+10E		470	390	FLAT
	0+00		470	390	FLAT
	0+10E		480	400	FLAT
	0+20E		460	380	FLAT
	0+30E		440	360	FLAT
	0+40E		500	420	FLAT EDGE of CREEK
	0+50E		500	420	
	0+100	15 6M. N. of A 4+20N			
B.L. 4+20N	A	2:50 P.M.	500 <sup>80</sup>	420	

PARTY CHIEF.....

PARTY CHIEF.....

WEATHER.....

WEATHER.....

LINE	STA	TIME	ROG <sup>-80</sup>	
B.L. 4+20W PL West	0+10E	W	490	410
			480	400
	0+20E	W	510	430
			550	470
	0+30E	W	560	480
			570	490
	0+40E	W	530	450
			490	410
B.L. 4+50W PL West	0+150E	W	570 <sup>-70</sup>	500
			570	500
	0+60E	W	550	480
			560	490
	0+67E	W	560	490
			560	490
	0+67E	W	510	440
	0+60E	W	530 <sup>-60</sup>	470
B.L. 4+50W PL West			550	490
	0+150E	W	550	490
			540	480
	0+40E	W	540	480
			550	470
	0+30E	W	550	490
			580	520
	0+30E	W	590 <sup>-50</sup>	530
B.L. 4+50W PL West	0+10E	W	530	530
			460	460
	0+10E	W	510	400
			450	400
	0+00		450	400
			430	380
	0+00	is 5M. N of 4+50W		
	B.L. 4+50W	A	3:25 P.M.	460 <sup>-50</sup>
B.L. 4+50W PL West	0+10E		430	380
			450	400
	0+20E		460	410
			470	420
	0+30E		470	430
			460 <sup>-40</sup>	420
	0+40E		430	390
			430	390
B.L. 4+80W PL	0+50E	3:45 P.M.	450	410
			450	410
	0+50E		450 <sup>-30</sup>	420

FLAT	
OLD TRAIL START ON SIDE HILL	
4M. CLIMB TO HERE	
3.5M. " " " - LEVELS OUT	
LEVEL	
1M. RISE TO HUMP	
0.5M. DROP TO LEVEL	
FLAT ON ESKER	
FLAT " " INTERSECTS B.L. 4+30W 0+45W	
FLAT ON ESKER	
1M. GRADUAL RISE TO HERE	
FLAT	
FLAT	
1M. GRADUAL RISE TO HERE - EDGE of HILL	
2M. DROP TO HERE	
3M. " " "	
BASE of HILL - START of FLAT	
FLAT	
OVERFLOW CHANNEL	
FLAT	
CENTER of CREEK	
EDGE of CREEK	
FLAT	
FLAT	
1M. RISE TO HERE	START of STEEP HILL
5M. RISE " "	(TOO LATE IN DAY TO CONTINUE WITH SO CLOSING & CIRCUIT

JOB.....

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LINE	STA	TIME	RDS.		
B.L. 4+800	0+45		470	-20	450
	0+40E		430		410
	0+30E		380		360
	0+20E		400		380
	0+10E		410		390
	0+00		430	-10	410
			440		430
			450		440
			430		420
0+00 IS 7M. N of					

B.L. 4+800  $\Delta$  4:05 P.M. 440 -10 430B.L. 4+500  $\Delta$  4:07 430 -20 410

BACK TO CAMP 4:45

3 M. DROP TO HERE (CREEK VALLEY GETTING VERY NARROW)

5 M. DROP " " BASED W/LL - FLAT

FLAT EDGE OF CREEK (CREEK 1 M. DOWN)  
OPPOS TE EDGE  
FLAT  
1 M. HIGH HUMP $\Delta$  4+800

PARTY CHIEF.....

WEATHER

CLEAR &amp; GOOD - 25°C

PARTY CHIEF.....

WEATHER.....

JOB.....

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LINE	STA	TIME	RDL		
B.L. 4+80N	Δ	9:35 A.M.	400 <sup>+30</sup>	430	4+85 - CROSS DRY RUN, MOUNTAIN
5+10N	Δ		410	440	
5+40	Δ		400	430	5+25 - 5+40 LINE IN CENTER OF CREEK. 5+40 LEAVES CREEK
5+70N	Δ		450 <sup>+30</sup>	480	5+75 - 6+00 FOLLOWS EDGE OF CREEK
6+00	Δ	→	435	465	BRG. CHANGE TO 50° / CREEK XING
6+30N	Δ	10:03 A.M.	435	465	FOLLOWS EDGE OF CREEK TO HERE
B.L. 4+80N	Δ	10:13 A.M.	395 <sup>+35</sup>	430	
CUT LINE TILL		11:45			
B.L. 4+80N	Δ	12:00	430 <sup>0</sup>	430	FLAT BENCH
0+10W			430	430	" - ON OLD TRAIL
0+20W			410	410	FLAT
0+30W			420	420	END OF BENCH, START OF SIDE HILL
0+40W			430	430	4.5 M. RISE TO HERE
0+50W			470	470	3M. RISE TO HERE. EDGE OF BENCH, GRANITE BLDRS.
0+60W			390	390	ON FLAT BENCH.
0+70W			500	500	FLAT BENCH
0+80W			510	510	" "
0+90W			470	470	" "
0+100W			460	460	" "
0+110W			430 <sup>+10</sup>	420	FLAT
0+120W			500	490	
0+130W			530	470	1.5 M. RISE TO HERE - END OF BENCH (GRANITE BLDR)
0+140W			540	520	6M. STEEP RISE TO HERE (GRANITE BLDR.) 20-25 M. STEEP RISE TO TOP OF ESCR
0+150W			540	530	
B.L. 5+10W		12:28 P.M.	550	540	ON STEEP SIDE HILL - GRANITE BLDR.
0+160W			510	500	
0+170W			500	490	3M. DROP TO HERE
0+180W			480	470	
0+190W			510	500	3M. " " " BASE OF HILL - START OF BENCH
0+200W			510 <sup>+20</sup>	490	
0+210W			500	480	1M. GRADUAL DROP TO HERE - BENCH
0+220W			520	500	
0+230W			520	500	BENCH

PARTY CHIEF.....

PARTY CHIEF.....

WEATHER.....

WEATHER.....



LINE	STA	TIME	B.G.	
B.L. 5+10N	0+40N		530	510
PL	0+30W		550	530
	0+20W		509	470
	0+10W		440	410
	0+0W		440	410
			480	450
			460	430
			470	440
			470	440
			480	450
0+00 is 6M. N of Δ 5+10N				
B.L. 5+10W	A	12:52 P.M.	470	440
B.L. 5+10W	A	1:30 P.M.	430	440
	0+10E		450	460
	0+20E		460	470
	0+30E		420	430
	0+40E		410	420
	0+50E		400	410
	0+40E		390	390
	0+40E		420	420
	0+40E		450	450
B.L. 5+10N	0+40E		510	510
PL	0+30E		470	470
	0+20E		480	450
	0+10E		430	420
	0+0E		430	420
	0+0E		420	410
	0+0E		440	430
	0+0E		430	420
	0+0E		440	430
	0+10W		460	450
	0+20W		480	450
	0+30W		450	440
	0+40W		430	420
	0+50W		410	400
	0+60W		410	400
	0+60W		460	450
	0+60W		480	470
	0+50W		510	500
	0+50W		530	540
	0+60W		550	540
	0+60W		530	520

BENCH  
 EDGE OF BENCH  
 5M. DROP TO HERE  
 2M. DROP TO HEAD - BASE of HILL - START of BENCH  
 FLAT  
 FLAT 540 410  
 FLAT  
 FLAT  
 EDGE OF CREEK - 1M. ABOVE  
 CENTER "  
 EDGE OF CREEK - 1M. ABOVE  
 END of BENCH  
 1.5 M. RISE TO HERE - START of STEEP SIDE HILL  
 STEEP 6M. RISE TO HERE @ 20M. MORE TO TOP  
 IN STEEP SIDE HILL  
 5M. DROP TO HERE  
 4.5M. " " " - BASE of HILL - START of BENCH  
 FLAT BENCH  
 EDGE of CREEK  
 EDGE of CREEK - ON Δ 5+10W  
 1M. RISE TO HERE - START of FLAT BENCH  
 FLAT  
 OLD TRAIL FLAT  
 FLAT ENDS - START of SIDE HILL  
 5M. RISE TO HERE  
 3M. " " "  
 1.5M. " " " - START of BENCH  
 FLAT

PARTY CHIEF.....

WEATHER.....

PARTY CHIEF.....

WEATHER.....

op. 514-285-3778

LINE	STA	TIME	Rdg	
B.L. 5+40W PL	0+70W	2:25 PM.	530 -10	520
	0+80W		510	500
B.L. 5+70W PL	0+80W	13 M. N of A 5+70W	490	480
	0+70W		480	470
	0+60W		560	550
	0+50W		550	540
	0+40W		520	510
	0+30W		510	500
	0+20W		530	520
	0+10W		550	540
	0+0W		530	520
	0+00 IS		13 M. N	530
5+70N (E)	0+60E	2:48 P.M.	440 -10	480
	0+20E		450	440
	0+30E		450	440
	0+40E		470	460
	0+50E		460	450
	0+60E		470	460
	0+70E		450	440
	0+80E		470	460
	0+90E		490	480
	0+100E		490	480
PL 6+00N (E)	0+70E	3:15 P.M.	480	470
	0+60E		480	470
	0+50E		460	450

END OF BENCH - START OF STEEP HILL  
 4M. RISE TO HERE @ 20-25 M. TO TOP  
 ON SIDE HILL

4.5 M. DROP TO HERE  
 1M. DROP " " - START OF BENCH  
 FLAT

FLAT END BENCH

1.5 M. GRADUAL SLOPE DOWN

1M. " " "

4M. DROP TO HERE - START FLAT BENCH

FLAT OLD TRAIL  
 FLAT

1M. DROP TO EDGE OF CREEK

FLAT  
 1M. 7' DROP TO EDGE OF CREEK  
 OPPOSITE SIDE

1M. GRADUAL RISE TO HERE - BENCH

1M. " " " "

1M. " " " "

1M. " " " " END OF BENCH

3M. RISE TO HERE - SIDE HILL

3M. " " " @ 50 M. TO TOP

ON SIDE HILL

3M. DROP TO HERE

3M. " " "

PARTY CHIEF

WEATHER

CLEAR & VERY COLD

PARTY CHIEF

WEATHER

ICE FOG CLOSING IN FROM TESLIN R.

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LINE	STA	TIME	RDG.	
BL. 6100N	0+4DE		450	440
			470	460
	0+30E		500	490
			510	500
	0+20E		520	510
			520	505
	0+10E		540	525
			530	515
	0+00		520	505
			530	505

0+00 IS 15 M. N of 0+00N  
0+00N A 3:32 P.M. 480<sup>15</sup> 465

JOB.....  
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2M. DROPTD HERE - START OF RENDY  
FLAT

FLAT

1/

11

1M. GRADUA SLOPE - EDGE OF CREEK

PARTY CHIEF.....

WEATHER.....

PARTY CHIEF.....

WEATHER.....

JOB

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LINE	STA	TIME	B <sub>00</sub>	
B.L. 6400N	A	9:35 A.M.	450 <sup>+15</sup>	465
6430N	Δ	9:38 A.M.	470	

RUNNING IN A SIDE LINE TO FIND  
COMINGS IN SO FAR N. OF A  
I RAN LINE 6430 - E OUT 60 M. ?  
OF Δ 6460, WHY? WHY?

DOESN'T MAKE SENSE.

B.L. 6400N	A	10:40 A.M.	450 <sup>+15?</sup>	465
6430N	Δ	→	480 <sup>-15</sup>	465
6460	Δ		540	525
6490	Δ		560 <sup>-10</sup>	550
7420	Δ	→	570	560
7450	Δ		620	610
7480	Δ	11:02 A.M.	660 <sup>-5</sup>	675
B.L. 6400N	A	11:11 A.M.	470 <sup>-5</sup>	465
0410W			505	500
			500	500
0420W			520	515
			520	515
0430E/W			530	525
			540	535
0440W			540 <sup>-10</sup>	530
			550	540
0450W			550	540
			550	540
0460W			530	520
			510	500
0470W			510	500
			500	490
B.L. 6430N	0470W	11:26 A.M.	570	560

PL

PARTY CHIEF

WEATHER

OUT WHY ALL LINES ARE  
(COMPASS OR OPERATOR?)  
RETURNED ON BL 6460 I WAS 11.5 M.S  
CAREFUL SIGHTINGS TAKEN.

BRG. CHANGE TO 349°

BRG. CHANGE TO 40°

RETURN TO A 6400

EDGE OF CREEK -  
OLD TRAIL  
GRADUAL 1 M. RISE TO HERE

" " " " "

2.5 M. RISE TO HERE

3 M. " " " - START OF FLAT BENCH

FLAT

FLAT

FLAT ENDS - START OF STEEP H. (GRANITE BENCH)  
IN BENCH - RISE OF STEEP H. ( " " )

PARTY CHIEF

WEATHER

JOB.....

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LINE	STA	TIME	ROG <sub>10</sub>	
B.L. 6130N PL	0+60W		610	600
			610	600
	0+50W		580	570
			560	550
	0+40W		470	450
			500	480
	0+30W		520	500
			510	490
			490	470
0+20W			510	490
			500	480
0+10W			500	480
			480	460
0+00W			460	460

EDGE OF BENCH

2M. DROP TO HERE

1M. GRADUAL DROP TO HERE

FLAT

FLAT

FLAT  
1M. DROP TO HERE - CREEK EDGE - 1M. ABOVE  
CREEK EDGE - 1M. ABOVE  
FLAT - 1.5M. SHORT ON CHAIN

0+00 15. 10 M. N. of A 6+30W

B.L. 6130N A	0+10E	11:45	490	465
			530	510
			540	520
	0+20E		520	500
			510	490
	0+30E		510	490
			470	450
	0+40E		470	450
			490	470
	0+50E		520	500
		540	520	
0+60E		530	510	

CREEK EDGE - 1M. ABOVE  
1M. RISE TO HERE - BENCH  
FLAT

FLAT

"

END OF BENCH  
1M. RISE TO HERE

3M. " " "

3M. " " " @ 50M. STEEP RISE TO TOP

B.L. 6160N PL	0+60E	12:03 P.M.	580	560
			600	580
	0+50E		610	590
			620	600
	0+40E		590	570
			610	590
	0+30E		605	585
			570	550
	0+20E		540	520
			510	490
0+10E		510	490	
		530	510	
0+00		520	500	

ON SIDE HILL

2M. DROP TO HERE

2M. " " "

1.5M. " " "

1M. " " "

1M. " " "

LEVEL 2M. SHORT ON CHAIN

0+00 15 11.5 M. S of A 6+60N

PARTY CHIEF.....

WEATHER.....

PARTY CHIEF.....

WEATHER.....

LINE	STA	TIME	BDC	
B.L. 6160N	A	12:18 PM	540 <sup>-15</sup>	525
	0+10W		550	535
	0+20W		530	515
	0+30W		430	415
	0+40W		510	500
	0+50W		520 <sup>-20</sup>	500
	0+60W		520	500
	0+70W		530	510
	0+80W		530	510
	0+90W		510	490
	0+100W		540	520
	0+110W		580	560
	0+120W		590	570
L+6190N	0+80W		600	580
	0+90W		650	630
	0+100W		640	620
	0+110W		590 <sup>-30</sup>	550
	0+120W		490	460
	0+130W		530	500
	0+140W		540	510
	0+150W		540	510
	0+160W		540	510
	0+170W		570	540
	0+180W		570	540
	0+190W		550	520
	0+200W		570	540
0+200 IS 6M. N. of Δ 6190N				
B.L. 6190N	A	12:50 P.M.	580 <sup>-30</sup>	550
6190N	A	1:20 P.M.	580	550
	0+10E		590	560
	0+20E		610	580
	0+30E		630	600
	0+40E		630	600
	0+50E		630	600
	0+60E		650	620
	0+70E		670 <sup>-40</sup>	630
	0+80E		660	640
	0+90E		700	660
	0+100E		700	660
7120N	0+50E	1:37 P.M.	730	690

FLAT
.5M. GRADUAL SLOPE TO HERE
1M. DROP TO HERE - CENTER OF CREEK
INTERSECT 6160N - 0+15W - 1M. RISE TO HERE
FLAT
FLAT OLD TRAIL
END FLAT BENCH
2M. RISE TO HERE
2M. " " "
FLAT
FLAT ENDS
INTERSECT L 6130N - 0+50W
2M. DROP TO HERE - START OF FLAT BENCH
FLAT
FLAT
FLAT
CENTER OF CREEK
FLAT - 6M. OVER ON CHAIN
FLAT
1M. GRADUAL RISE TO HERE
1M. " " " "
3M. RISE TO HERE
2M. " " "
4M. " " " (LARGE GRANITE BEDS.)
ON SIDE HILL

PARTY CHIEF .....

WEATHER .....

PARTY CHIEF .....

WEATHER .....

JOB  
DATE DEC 8/81

PAGE 4

JOB  
DATE  
PAGE 4

LINE	STA	TIME	RDG		
			740	-50	690
B.L. 7+20N	0+40E		730		680
PL (E)	0+30E		700		650
	0+20E		680		550
	0+10E		640		590
	0+00		660	-60	600
			640		580
			640		580
			630		570
0+00 IS 9M. N of Δ 7+20N					
7+20N	Δ	1:53 PM	620	-60	560
	0+10N		580	↓	520
	0+20N		600		540
	0+30N		600		540
	0+40N		600		540
	0+50N		590		530
	0+60N		600		540
	0+70N		570		510
	0+80N		610		550
	0+90N		630		580
	0+100N		590		530
	0+110N		610		550
	0+120N		600		540
	0+130N		650		590
	0+140N		620		600
	0+150N		630		570
PL 7+50N	0+80W		650		590
	0+70W		670		610
	0+60W		660		600
	0+50W		630		590
	0+40W		650		590
	0+30W		640		580
	0+20W		660		600
	0+10W		670		610
	0+00		700		640
			690		630
			690		630
			670		610
			690		630
			680		630
			700		640

2M DROP TO HERE

2M. " " "

1M. GRADUAL SLOPE TO HERE

FLAT

.5M. DROP TO HERE - 3M. EXTRA ON CHAIN

EDGE OF CREEK  
OPPOSITE EDGE

1M. GRADUAL RISE TO HERE (0-2 TRAIL)

1.5M " " "

2.5M RISE TO HERE

1M. " " "

4M. " " "

4M " " "

FLAT ESKER TOP

TOP OF ESKER

EDGE " " " 3M. DROP TO HERE

4M. " " "

.5M " " "

FLAT

FLAT

FLAT

FLAT

1M. DROP TO HERE - EDGE OF CREEK

PARTY CHIEF

WEATHER

PARTY CHIEF

WEATHER

LINE	STA	TIME	ROG	
L7+50N	0+00		700 690	640 630
0+00 IS 10 M. N. of A 7+50N				
7+50N	△	2:40	670 <sup>-60</sup>	610
7+50N	△	3:00 P.M.	670	610
	0+10E		660 700	600 640
	0+20E		680 700	620 640
	0+30E		730 <sup>-50</sup> 750	680 700
	0+40E		740 740	690 690
POINT 0+40E INTERSECTS L7+20				
L 7+50N	0+40E		710 <sup>-46</sup>	670
	0+30E		680 680	640 640
	0+20E		700 710	660 670
	0+10E		710	670
	0+00		730 <sup>-35</sup> 730	700 700

EDGE OF CREEK  
 2 M. LONG ON CHAIN

FLAT

2 M. GRADUAL RISE TO HERE

2 M. " " " "

.5 M. " " " "

2 M. " " " "

N - 0+50E

~~WENT TO HILL SIDE~~

2 M. GRADUAL DROP TO HERE

1 M. " " " "

FLAT

FLAT 2 M. SHORT ON CHAIN

A 7+50

TRAP LINE 7+50 W TO 8+10

0+00 IS 5.5 M. N. of  
 7+80N △ 3:25 P.M. 710<sup>-35</sup> 675

CUT HIKK TILL 3:45  
 BACK TO CAMP 4:35

CITRINAGE FROM △ 0+00 TO BREWER  
 LAKE EDGE IS 694 M

PARTY CHIEF

WEATHER

COLD  
 ICE FOG & TESLIN R.

PARTY CHIEF

WEATHER

LINE	STA	TIME	RDG		
8+10N	0+50E	10:57 A.M.	730	-10	720
	0+60E		720		710
	0+70E		720		710
	0+80E		710		700
	0+90E		690		680
	0+100E		690		680
	0+110E		670		670
	0+120E		650		640
	0+130E		630		620
	0+140E		650		640
8+40N	0+150E	11:12	650		640
	0+160E		650		640
	0+170E		690		680
	0+180E		700		690
	0+190E		700		690
	0+200E		650		640
	0+210E		680		670
	0+220E		610		600
	0+230E		600		590
	0+240E		590		580
8+40N	0+200	11:27 P.M.	590		580
	0+100		630	-15	615
	0+110N		650	-10	640
	0+120N		660		650
	0+130N		650		640
	0+140N		650		640
	0+150N		700		690
	0+160N		700		690
	0+170N		690		680
	0+180N		690		680
8+40N	0+150N	11:34	700		690
	0+160N		730		720
	0+170N		710		700
8+10N	A	11:37	730		720
7+80N	A	11:40	750		740
			750		740
8+40N	A		620	-5	615
8+10N	A		690		
7+80N	A		660		

FLAT BENCH

BENCH ENDS

4 M. CLIMB TO HERE UP STEEP SIDE HILL

ON SIDE HILL

5 M. DROP TO HERE

1 M. DROP TO HERE (SPACE) OF BENCH

FLAT

FLAT

END FLAT

2 M. DROP TO HERE

2 M. " " "

2 M. " " "

2 M. " " " EDGE OF CREEK

CENTER OF CRK.

2 M. UP ON BANK OF CREEK 2 M. SHORT ON CLIMB

15 SM. N of 8+40N

1.5 M. RISE TO HERE

FLAT BENCH

" " " ROAD TRAIL

END BENCH - START STEEP RISE TO ESKER

2 M. CLIMB TO HERE

3 M. " " "

FLAT (BASE) OF STEEP, HIGH ESKER

CHOPPER ARRIVED 2:30 P.M.

RETURN WHITE HORSE @ 3:10 P.M.

BACK TO CAMP 12:35 A.M.

PARTY CHIEF

PARTY CHIEF

WEATHER

ICE FOG LIFTING

WEATHER

