Appendix 3 現地調査工事資料

Appendix 3

Data of Field Investigation Works

3.1	Data of Topograpine Survey
3.2	Data of Seismic Prospecting Survey
3.3	Data of Core Drilling Work
3.4	Data of Survey on Environmental Impact and Compensation

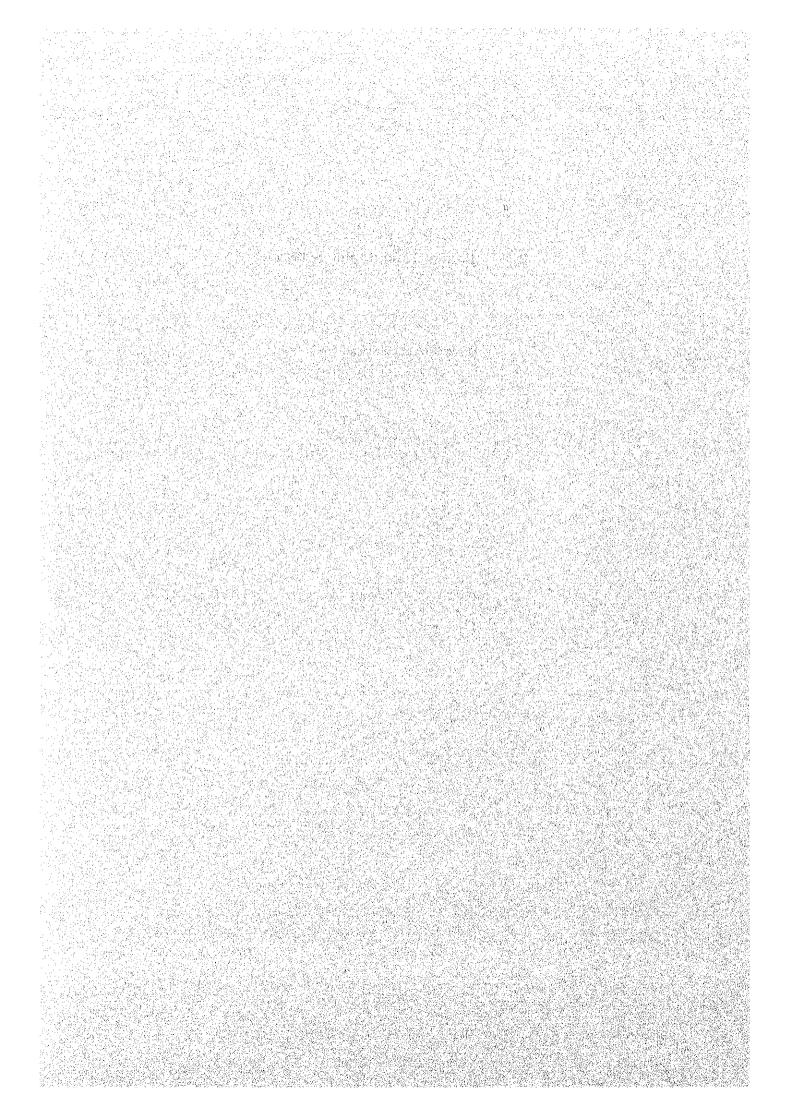
3.5

Data of Geology

3.1 Data of Topographic Survey

Description of GPS Stations

Station No. 001 ~ 037



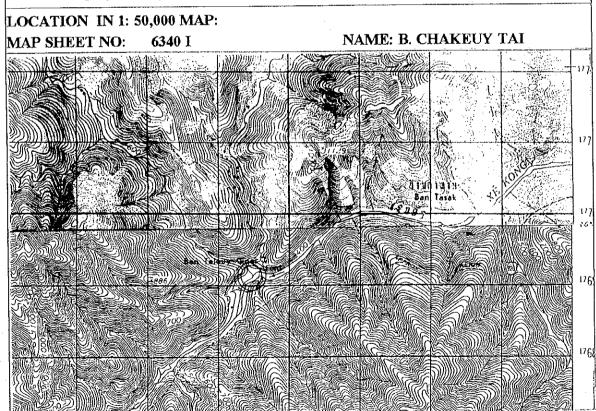
	STATION NO:	GPS 001	DISTRICT:	M. KALUM
	TYPE:	*	PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established on the bank of the Xe Kong river. Approached to the site for monumentation, signalisation and observation by helicopter.

Note:

The Latitude, Longitute, North, and East of this survey results was computed out based on existing point name No. 8924 of Mekon Committee, and the elevation on Bench Mark of National Geographic Department (NGD).



STATION NO:	GPS 002	DISTRICT:	M. KALUM			
TYPE:		PROVIENCE:	XEKONG			

METHOD OF APPROACH:

The station was established on the rice field. Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP:

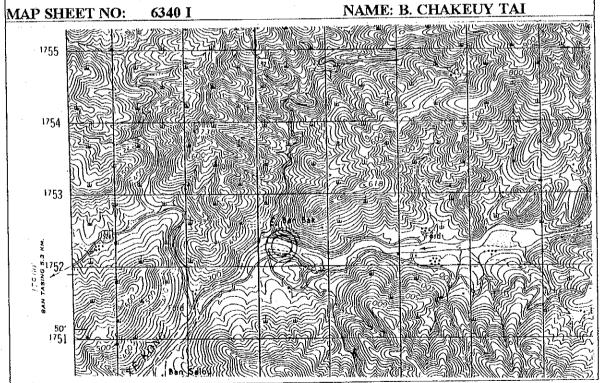
DESCRIPTION O	F GPS	STATION
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		Υ	
STATION NO:	GPS 003	DISTRICT:	M. KALUM
TYPE		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established on the bank of Xe Kong river near Ban Long Kong. Approached to the site for monumentation, signalisation and observation by helicopter.



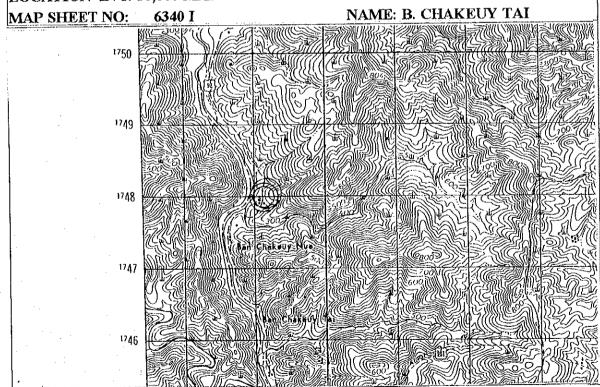


		<u> </u>	<u> </u>
STATION NO:	GPS 004	DISTRICT:	M. KALUM
TYPE:		PROVIENCE:	XEKONG
11110.	<u> </u>	1	

METHOD OF APPROACH:

The station was established near the bank of Xe Kong river near Ban Don. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 4
LATITUDE 15 ° 48 ′ 1.5269 ″ N(m) 1,747,509.234
LONGITUTE 106 ° 45 ′ 40.7379 ″ E(m) 688,631.563
H(m) 221.060



		T	I
STATION NO:	GPS 005	DISTRICT:	M. KALUM
TYPE:		PROVIENCE:	XEKONG

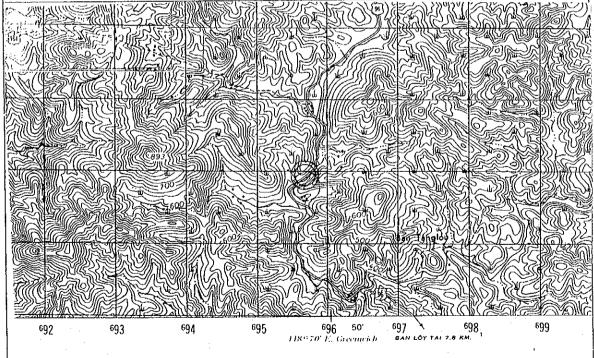
METHOD OF APPROACH:

The station was established in the rice field near Ban Tanglau. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 5
LATITUDE 15 ° 47 ′ 6.5204 ″ N(m) 1,745,882.871
LONGITUTE 106 ° 49 ′ 53.9265 ″ E(m) 696,180.538
H(m) 447.847

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6340 I NAME: B. CHAKEUY TAI

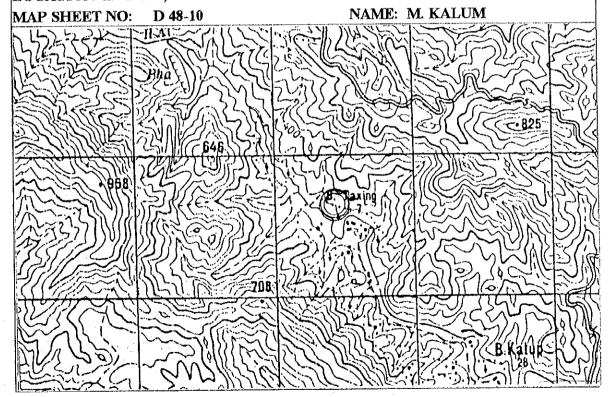


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STATION NO:	GPS 006	DISTRICT:	M. KALUM
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established in the rice field near Ban Taxing. Approached to the site for monumentation, signalisation and observation by helicopter.

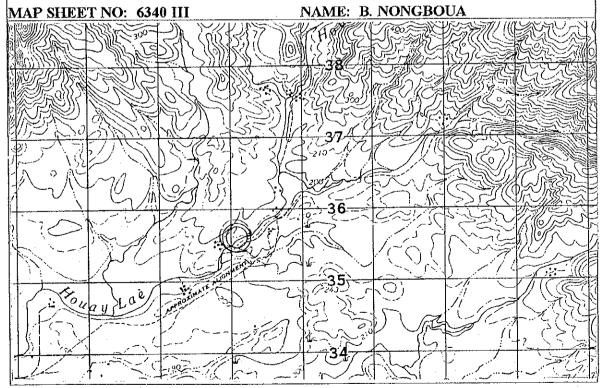


		T	T
STATION NO:	GPS 007	DISTRICT:	M. SALAVAN
TVPF		PROVIENCE:	SALAVAN
7 7 7 7 7 7 T		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1]

METHOD OF APPROACH:

The station was established in the grass land along disused Hochiminh trail near Ban Bouang. Approached to the site for monumentation, signalisation and observation by helicopter.

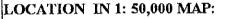
GPS 7
LATITUDE 15 ° 42 ′ 0.1798 ″ N(m) 1,736,285.435
LONGITUTE 106 ° 37 ′ 26.5370 ″ E(m) 674,011.418
H(m) 236.203

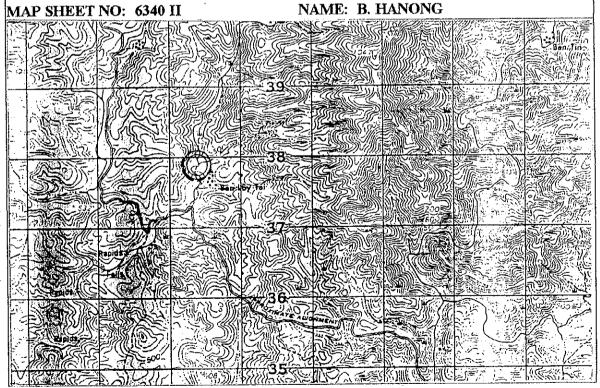


i					
	STATION NO:	GPS 008	DISTRICT:	M. KALUM	
ĺ	TYPE:		PROVIENCE:	XEKONG	

METHOD OF APPROACH:

The station was established in the barren land near Ban Bouay Say. Approached to the site for monumentation, signalisation and observation by helicopter.





	GPS 009	DISTRICT:	M. KALUM
TYPE:		PROVIENCE:	XEKONG

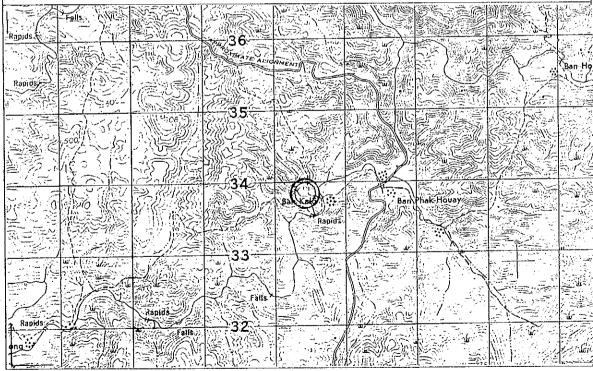
METHOD OF APPROACH:

The station was established in the barren land near Ban Kalo. Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6340 II

NAME: B. HANONG



		1	
STATION NO:	GPS 010	DISTRICT:	M. SALAVAN
TYPE:		PROVIENCE:	SALAVAN

METHOD OF APPROACH:

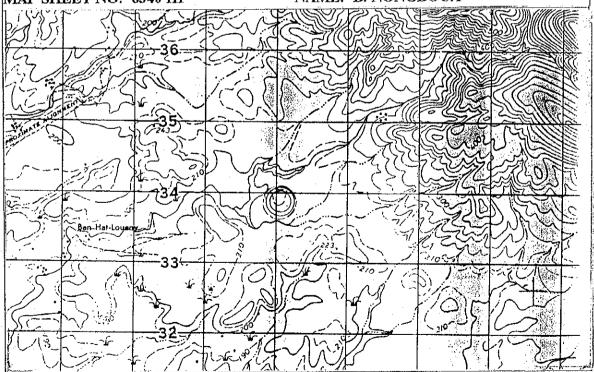
The station was established near the disused Hochiminh trail. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 10
LATITUDE 15 ° 40 ′ 22.5069 ″ N(m) 1,733,303.942
LONGITUTE 106 ° 38 ′ 54.9957 ″ E(m) 676,668.208
H(m) 232.906

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6340 III

NAME: B. NONGBOUA

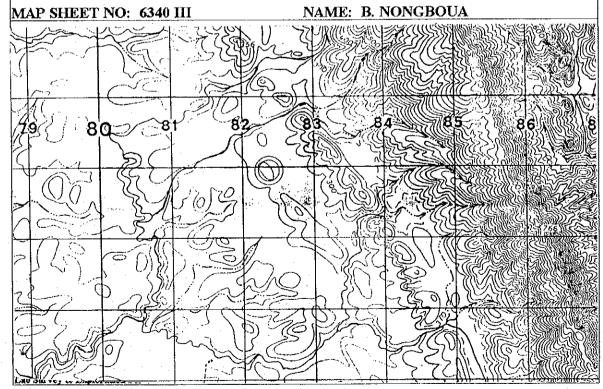


STATION NO:	GPS 011	DISTRICT:	M.LAMAM
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established along the disused Hochiminh trail near Ban Na Num. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 11
LATITUDE 15 ° 37 ′ 5.4640 ″ N(m) 1,727,289.270
LONGITUTE 106 ° 41 ′ 50.7499 ″ E(m) 681,949.614
II(m) 252.345

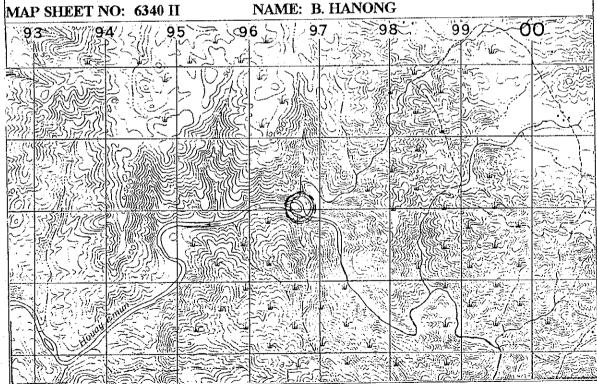


DESCRIPTION C	' GPS S	TATION
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			T
STATION NO:	GPS 012	DISTRICT:	M.KALUM
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established near the bank of Nam Emun. Approached to the site for monumentation, signalisation and observation by helicopter.



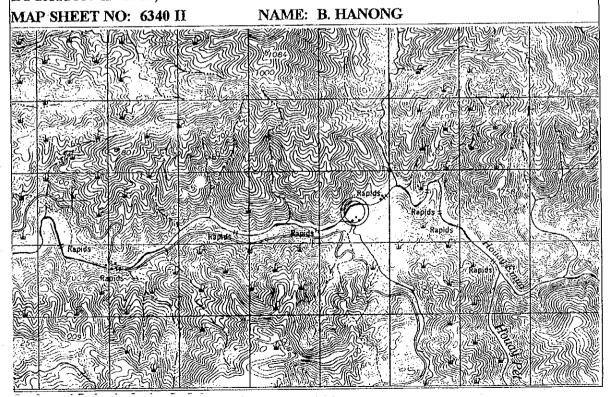
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			T
STATION NO:	GPS 013	DISTRICT:	M.KALUM
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established near ban Houayemun. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 13
LATITUDE 15 ° 34 ′ 44.0179 ″ N(m) 1,723,177.385
LONGITUTE 106 ° 57 ′ 13.6048 ″ E(m) 709,476.377
II(m) 316.797



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STATION NO:	GPS 014	DISTRICT:	M. LAMAM
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

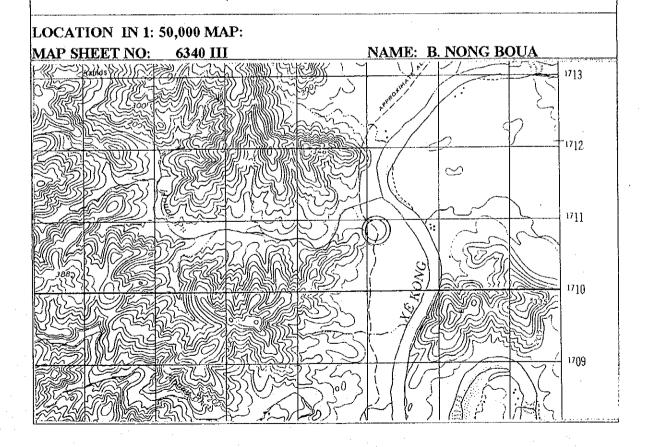
The station was established along the Hochiminh trail. Approached to the site for monumentation, signalisation and observation by 4WD vehicle from Ban Phon, which is 8Km from Xekong on the way to Salavan. It takes 2 hrs drive (about 22 Km) from Ban Phon. GPS 015 is also on the way.

LOCATION IN 1: 50,000 MAP:
MAP SHEET NO: 6340 III NAME: B. NONG BOUA

	STATION NO:	GPS 015	DISTRICT:	M. LAMAM
	TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established along the Hochiminh trail. Approached to the site for monumentation, signalisation and observation by 4WD vehicle from Ban Phon, which is 8Km from Xekong on the way to Salavan. It takes 50 mins drive (about 9.5Km) from Ban Phon.



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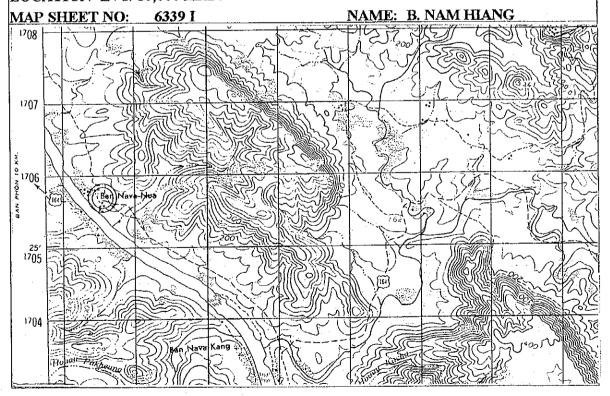
				T
	STATION NO:	GPS 016		M. LAMAM
	TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established on the rice field of a abenden village near Ban Nava Nua along the Xe Kong river. Approached to the site for monumentation and signalisation by 4WD vehicle from Ban Phon, which is 8Km from Xekong on the way to Salavan. It is about 10 Km from Ban Phon up to river and one has to cross the river and the point is on the top bank of river.

GPS 16
LATITUDE 15 ° 25 ′ 23. 9794 ″ N(m) 1, 705, 779. 853
LONGITUTE 106 ° 45 ′ 19. 8170 ″ E(m) 688, 353. 127
H(m) 136. 679





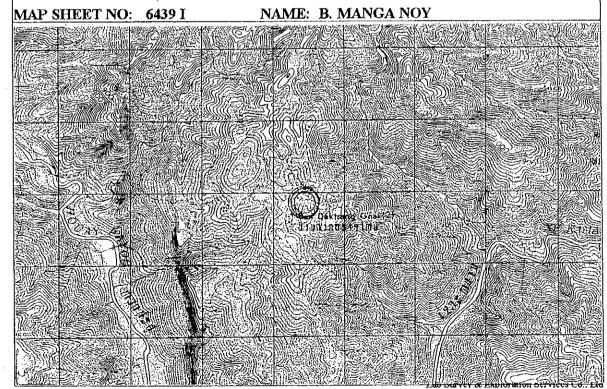
·			
STATION NO:	GPS 017	DISTRICT:	M. DAKCHUNG
TYPE:		PROVIENCE:	XEKONG

METHOD OF APPROACH:

The station was established in the open field near Ban Daktalang Gnai Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 17
LATITUDE 15 ° 18 ′ 46.5399 ″ N(m) 1,694,291.083
LONGITUTE 107 ° 27 ′ 8.9520 ″ E(m) 763,306.898
H(m)

LOCATION IN 1: 50,000 MAP:



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١	STATION NO:	GPS 018	DISTRICT:	M. DAKCHUNG
	TVPF		PROVIENCE:	
	E 1 J 120	L		

METHOD OF APPROACH:

The station was established in the open field near Ban Dakyout Gnai.

Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATIO	N IN 1: 5	0,000 MAJ	P:				
MAP SHE	ET NO:	6439 III	& II		NAI	ME: B. VAN	G TAT
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737	738	739	740	741	107:•15' 742	743	744

L				T
	STATION NO:	GPS 019	DISTRICT:	M. DAKCHUNG
	TYPE:		PROVIENCE:	XEKONG

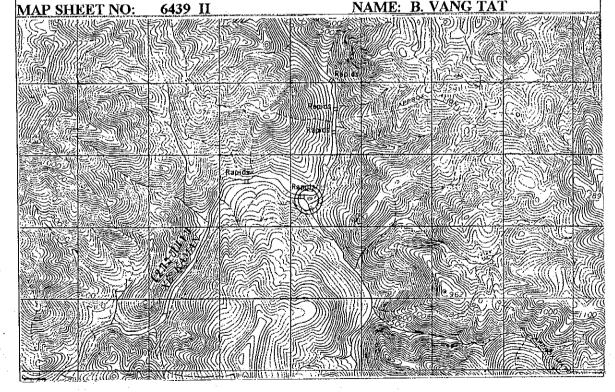
METHOD OF APPROACH:

The station was established on the confluence of Nam Xe Kaman and Nam Klabai. Approached to the site for monumentation, signalisation and observation by helicopter.

This station was washed away by flood after the GPS observation but before the aerial photography. Thus a supplimentary point was established and pricked by Mr. Takamatsu in January 94.

GPS 19
LATITUDE 15 ° 13 ′ 24. 2555 ″ N(m) 1, 684, 391. 058
LONGITUTE 107 ° 27 ′ 35. 5354 ″ E(m) 764, 212. 217
H(m) 307. 423

LOCATION IN 1: 50,000 MAP:



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STATION NO:	GPS 020	DISTRICT:	M. SANXAY
DIALION INC.	<u> </u>		
TYPE:		PROVIENCE:	ATTAPU

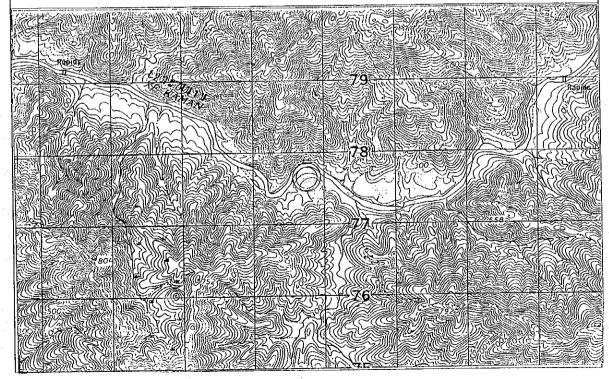
METHOD OF APPROACH:

The station was established in Ban Phiang Xe near the bank of Xe Kaman river. Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6439 II

NAME: B. VANG TAT

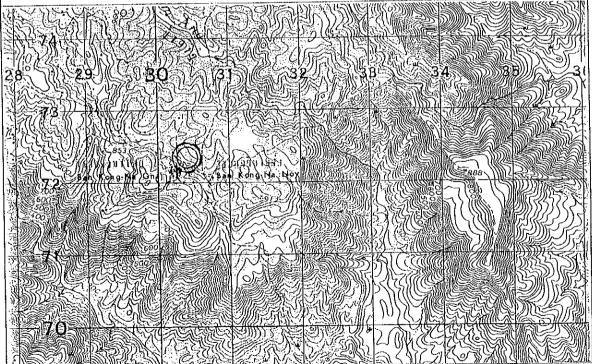


			I
STATION NO:	GPS 021	DISTRICT:	M. SANXAY
BIAITOITIO		PROVIENCE:	ATTADII
TYPE:		PROVIENCE.	AITAIU

METHOD OF APPROACH:

The station was established near Ban Kong Na. Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP: MAP SHEET NO: 6439 III NAME: B. YET

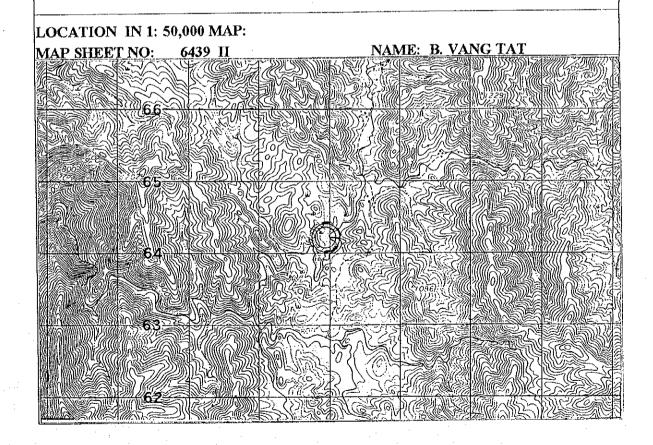


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STATION NO:	CT C VAA	DISTRICT:	M. SANXAY
TYPE:		I INO TENTOE	ATTAPU

METHOD OF APPROACH:

The station was established near Ban Vangtat. Approached to the site for monumentation, signalisation and observation by helicopter.



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STATION NO:	GPS 023	DISTRICT:	M. SANXAY
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

The station was established along the bank of Xe Kong river in the visinity of Ban Dakklong. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 23
LATITUDE 15 ° 2 ′ 20. 3468 ″ N(m) 1, 663, 708. 040
LONGITUTE 107 ° 13 ′ 21. 8767 ″ E(m) 738, 937. 702
H(m) 167. 441

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6439 III NAME: B. YET

		1	I
STATION NO:	GPS 024	DISTRICT:	M. SANXAY
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

The station was established along the disused Hochiminh trail about 3 Km from Ban Paam. Approached to the site for monumentation, signalisation and observation by helicopter.

GPS 24 LATITUDE 14 ° 56 ′ 57. 3936 ″ N(m) 1,653,549. 021 LONGITUTE 106 ° 59 ′ 48. 0924 ″ E(m) 714,718. 412 H(m) 124. 531

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6438 I

NAME: ATTAPU

10 711 712 713 714 107-60-00 716 717 71

DESCR	IPTI	ON	OF	CPS	STA	TION
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	STATION NO:	GPS 025	DISTRICT:	M. SANXAY
_	TYPE:		PROVIENCE:	ATTAPU
	I I I I I I I	<u> </u>		

METHOD OF APPROACH:

The station was established in Ban Paam, which is about 27 Km north east from Attapu. Approached to the site for monumentation and signalisation by vehicle from Attapu.

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6438 IV

NAME: B. SALAVANGKHANG

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STATION NO:	GPS 026	DISTRICT:	M. SANXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

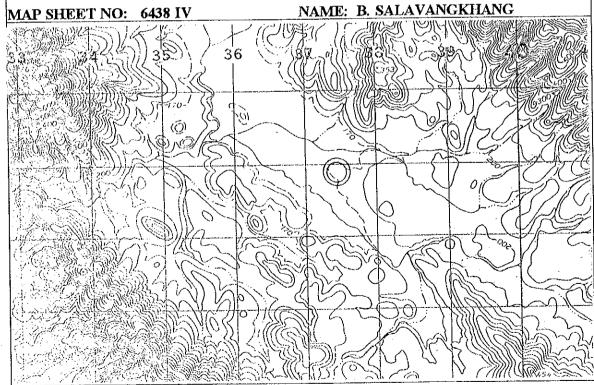
The station was established in the Hochiminh trail, about 6 Km from Ban Paam, which is about 27 Km north east from Attapu. Approached to the site for monumentation and signalisation by 4WD vehicle.

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STATION NO:	GPS 027	DISTRICT:	SANXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

The station was established along the disused Hochiminh trail across the Xekaman river. Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP:



STATION NO:	GPS 028	DISTRICT:	SAMAKHIXAI
TVDF		PROVIENCE:	ATTAPU
1111.	<u> </u>	12250	

METHOD OF APPROACH:

The station was established in the rice field along Xekong - Attapu road, about 0.5 km from Xenamnoy ferry. Approached to the site for monumentation, signalisation and observation by vehicle.

LOCATION IN 1: 100,000 MAP:

MAP SHEET NO: D 48-34

NAME: B. HOUAYKONG

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Byk. Hin-0,8

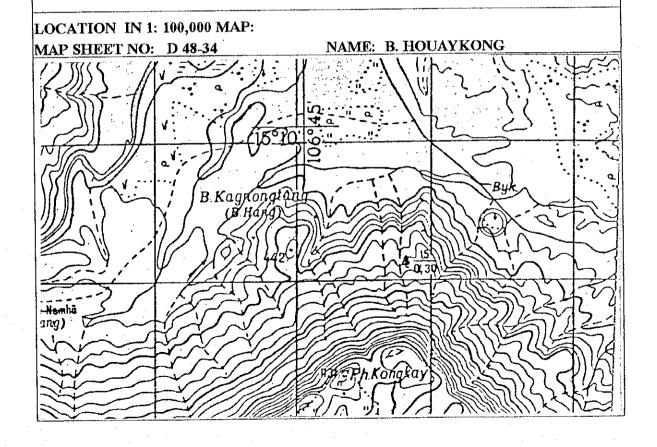
B. Mun-Houamuang (B. Hang)

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DESCRIPTION OF GPS STATION			
STATION NO:	GPS 029	DISTRICT:	SAMAKHIXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

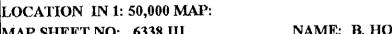
The station was established in the open forest area along Xekong - Attapu road, about 4.5 Km from Xenamnoy ferry. Approached to the site for monumentation, signalisation and observation by vehicle.

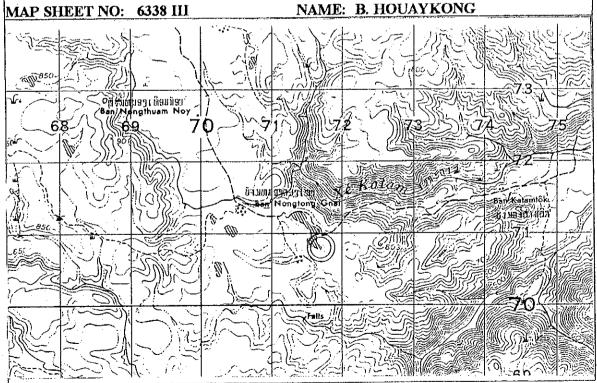


			(<u></u>
	STATION NO:	GPS 030	DISTRICT:	M. PAKXONG
!	TYPE:		PROVIENCE:	PAKSE

METHOD OF APPROACH:

The station was established at the edge of lake at Nongthuam, which is about 45 minutes drive from Ban Houaykong. Approached to the site for monumentation signalisation and observation by 4WD vehicle from B. Houaykong.



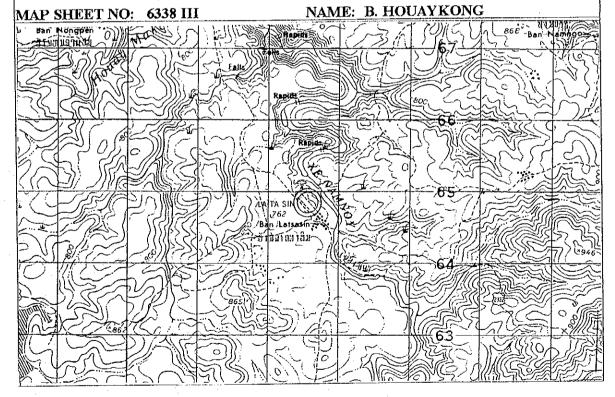


			T
STATION NO:	GPS 031	DISTRICT:	M. PAKXONG
TYPE:		PROVIENCE:	PAKSE

METHOD OF APPROACH:

The station was established at the disused airfield in Ban Latsasin, which is about 30 minutes drive from Ban Houaykong. Approached to the site for monumentation, signalisation and observation by vehicle from B. Houaykong.

LOCATION IN 1: 50,000 MAP:



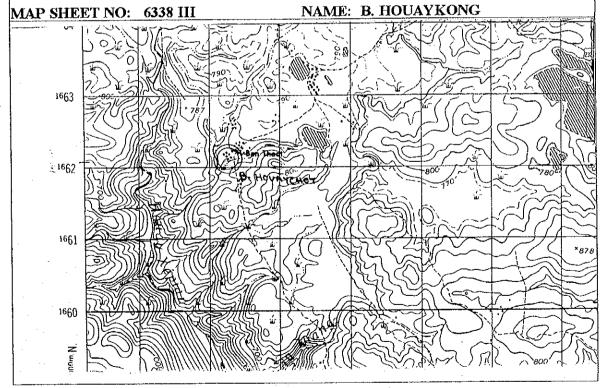
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STATION NO:	GPS 032	DISTRICT:	M. PAKXONG
TVPF		PROVIENCE:	PAKSE
1 1 10.	<u></u>	1 1 1 0 1 2331 7 0 11	

METHOD OF APPROACH:

The station was established at Ban Houaychot, which is about 30 minutes drive from Ban Houaykong. Approached to the site for monumentation, signalisation and observation by vehicle from B. Houaykong.

LOCATION IN 1: 50,000 MAP:

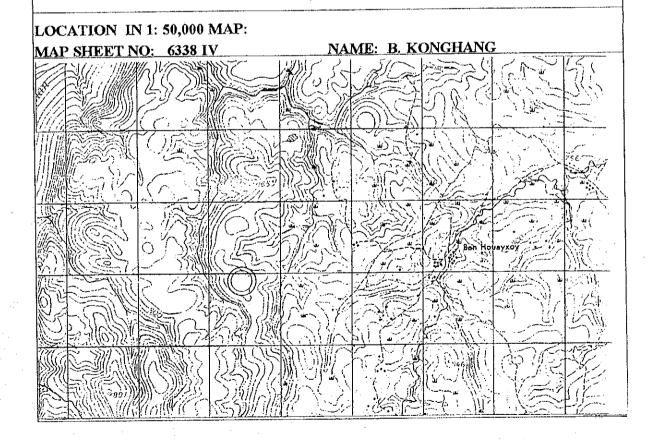


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1	STATION NO:	GPS 033	DISTRICT:	M. PAKXONG
	DIATION			
	TYPE:		LECTION	PAKXONG
	111E/.			

METHOD OF APPROACH:

The station was established near Ban Houayxoy. Approached to the site for monumentation, signalisation and observation by helicopter.



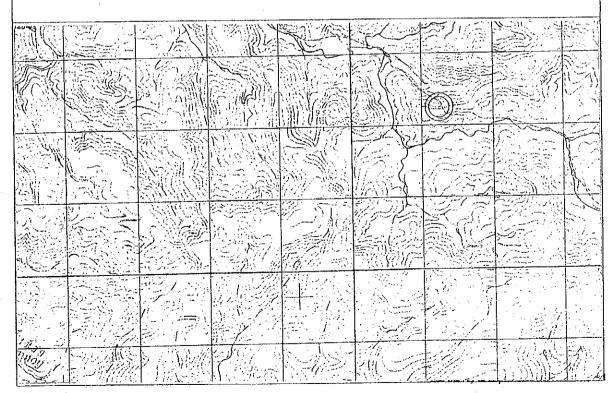
			1
STATION NO:	GPS 034	DISTRICT:	M. PAKXONG
TYPE:		PROVIENCE:	

METHOD OF APPROACH:

The station was established south east of Ban Namhan across the Xenamnoy river Approached to the site for monumentation, signalisation and observation by helicopter.

LOCATION IN 1: 50,000 MAP:

MAP SHEET NO: 6338 I NAME: ATTAPU



STATION NO:	GPS 035	DISTRICT:	SAMAKHIXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

LOCATION IN 1: 50,000 MAP:

The station was established at the rice field in Ban Nasakhan along the road from Attapu to Xekong, north west of Ban Hatsati. It is about 8 Km from Attapu Approached to the site for monumentation, signalisation and observation by Vehicle from Attapu.

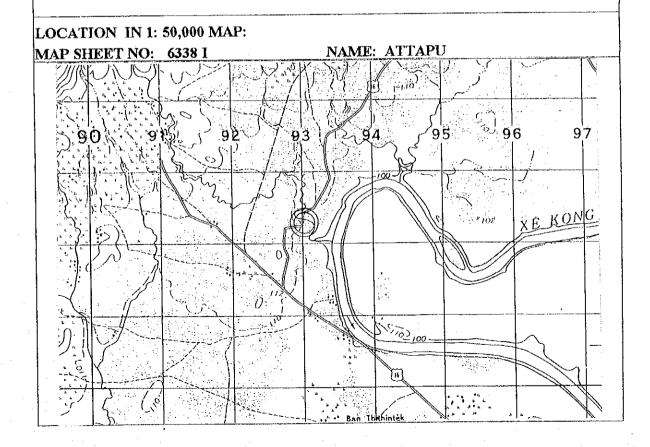
GPS 35
LATITUDE 14 ° 54 ′ 23. 6888 ″ N(m) 1, 648, 668, 203
LONGITUTE 106 ° 49 ′ 38. 7612 ″ E(m) 696, 550. 022
H(m) 98. 997



STATION NO:	GPS 036	DISTRICT:	SAMAKHIXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

The station was established at the road side on the way from Attapu to Xekong, which is about 4 Km from Attapu. Approached to the site for monumentation, signalisation and observation by Vehicle from Attapu.



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			r
STATION NO:	GPS 037	DISTRICT:	SAMAKHIXAI
TYPE:		PROVIENCE:	ATTAPU

METHOD OF APPROACH:

The station was established at the road side on the way from Attapu to Ban Khong Loum, South west of Attapu, which is about 8 Km from Attapu. Approached to the site for monumentation, signalisation and observation by Vehicle from Attapu.

