

Start 8:45am
Finish 4:00pm
essentially non-
Geosec

Mon Thursday 5th March

Plots for database entry to ISM.

{ LL' - 3dldata.plt.dat
MM' - 3dmdataplt.dat
PP' - 3dpdataplt.dat

Project: swri-3dmap.db - contains data sections

Note There are some discrepancies in the way that wells plot on the maps, this is especially true of USWQ-2. These need, ultimately, to be checked. For the present application - however, the computed positions (p. 81) are adequate

⊗ Don't forget the welded/non-welded plot - see p. 74 for colours.

Projects: swri-3D-AP.db contain sections
swri-3D-EM.db for these plots
swri-3D-BL.db

WELLS

Section	well	State (Pt)	UTM (m)		At Elevation m	
LL'	USWH-5	E 558909 N 766634 ✓	Map N 4078868 E 547,705	Geosec 4078849 547,710	4851	1479
	USWQ-4	E 563082 N 765807 ✓		4078571 548983	4165	1269
	UE-25 a#1	E 566350 N 764900 ✓		4078297 549,982	3934	1199
	USWQH-3	E 558501 N 752690 ✓		4074581 547,580	4857	1480
MM'	USWH-3	E 558452 N 756542 ✓		4075753 547,560	4866	1483
	*USWH-5					
	USWQ-1	E 561000 N 770500 ✓		4079999 548360	4349	1326
	USWQ-2 (off map)	E 560504 N 778824	APM 4082502 548133	4082692 548136	5098	1554
PP'	*USWH-5					
	USWH-4	E 563911 N 761644 ✓		4077309 549227	4097	1249

(1) State plane coordinates taken from Sandia Lab Report

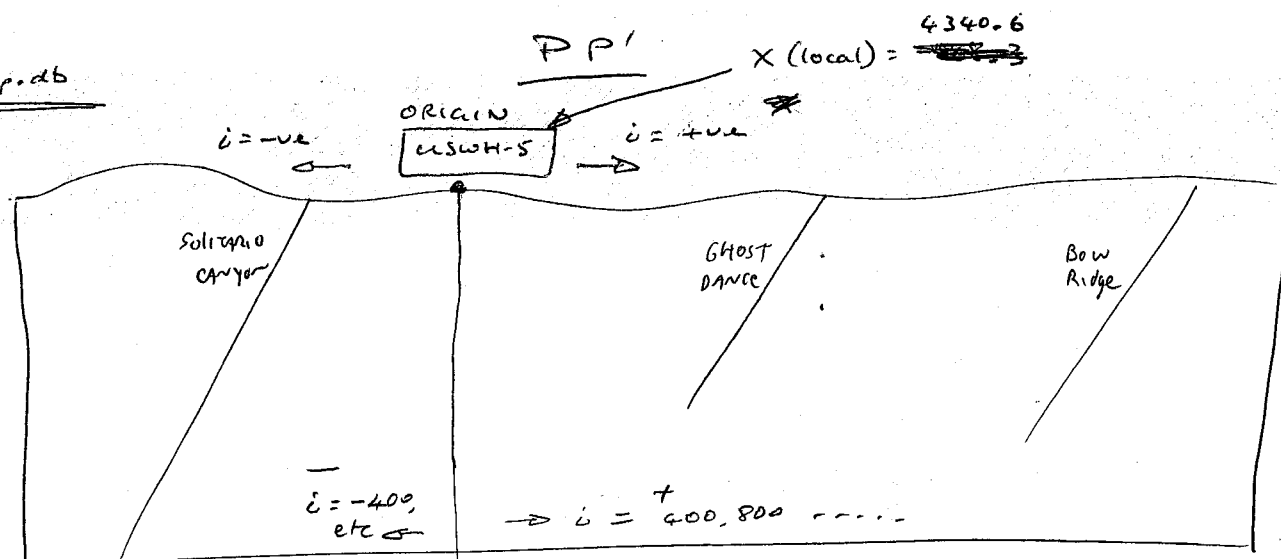
(2) " " plotted on USGS 1:24000 topo base

(3) USGS topo base digitised into Geosec (swri-3dmap^{APM}.db) using UTM metric grid

(4) Wellheads located using Geosec.

PROJECT

SWRI-3dmap.db



used to
build file for
Brent Henderson
20 Jan '95

Plot file.

3dpdata.plt.dat

APM

Z VALUES (true elevation in metres)

STRAT UNIT	END -1041	-1000	-800	-400	$\bar{z}=0$	+400	800	1200	1600	2000	2400	2800	3000	3200	3400	3600	3800	4000	4200	END 4320
n3-PTn	1281	1284	1278	-	1357	1326	1295	1263	1249	1202	1157	1137	1128	1085	1037	993	915	1070	1018	1048
Tptw-TSw1	1244	1233	1222	-	1310	1282	1254	1227	1215	1171	1133	1113	1105	1063	1017	976	897	1053	1001	1030
TSw2+3	1135	1140	1116	1241	1208	1180	1152	1124	1109	1065	1026	1007	999	954	908	863	783	944	948	919
CHnt-n2	902	892	869	991	966	943	920	897	919	888	843	810	794	736	682	609	/	689	702	686
PPw	774	763	730	881	854	820	787	753	782	751	697	666	641	587	533	455	614	/	556	573
CFMn	738	727	694	846	818	786	753	721	748	711	656	626	599	546	489	412	570	/	516	503
Tcbw	611	600	565	723	682	636	591	545	549	496	461	472	460	427	395	334	495	503	480	470
CFMn-n1	567	558	522	681	641	591	540	490	489	457	431	441	427	395	364	/	454	447	413	399

AA'

Database For ISM - PP'

Used to build
File for Brent
Henderson
20 Jan '95

P P'

	Solitario, Canyon ✓				Bow Ridge Fault ✓				Ghost Dance ✓			
	ELEV	I	ELEV	I	ELEV	I	ELEV	I	ELEV	I	ELEV	I
N3-PTW ✓	1175	-437	-	-	878	3891	1075	3979	1245	1446	1269	1452
TPCW-TSW1 ✓	1124	-461	1341	-366	863	3884	1060	3972	1210	1439	1234	1444
TSW 2+3 ✓	1027	-506	1241	-409	768	3838	963	3929	1109	1418	1131	1423
CHW1-N2 ✓	796	-613	1020	-509	558	3732	749	3829	887	1372	912	1377
PPW ✓	688	-664	916	-557	431	3662	628	3769	743	1343	773	1349
CFUN ✓	656	-679	885	-576	396	3642	591	3750	712	1336	743	1343
TcbW ✓	545	-732	746	-636	332	3606	520	3713	533	1299	560	1305
CPMN-N1 ✓	506	-750	709	-653	305	3588	492	3697	479	1288	500	1292

used to build
File for
Brent Henderson
20 Jan '95

Alan

Maris

SECTION MM'
ELEVATIONS OF UNIT TOP

UNIT / POS	M (SOUTH) ↓ USW 403 -4230	-3600	USWH3 -3063	-2800	-2000	-1200	-400	USWH5 0	400	800	USWG4 1363	1600	2400	3200	END 3857	m' (NORTH) ↓ Z	FAULT HW I	FW Z	I
N3-PTW	1368	1366	1366	1364	1362	1360	1358	1357	1350	1342	—	1350	—	1468	1501 ✓				
Tptw-Tsw1	1344	1342	1340	1337	1327	1317	1306	1310	1287	1272	1251	1260	1289	1315	1333 ✓				
TSW 2+3	1276	1273	1273	1267	1256	1253	1238	1208	1153	1095	1043	1038	1051	1094	1117 ✓				
CHW1-N2	1081	1074	1068	1058	1028	1000	968	966	944	935	923	935	974	1017	1059 ✓				
PPW	1012	1001	978	971	925	899	893	854	855	817	774	762	725	685	724 ✓	677	3333	733	3560
CFUN	969	981	971	961	907	869	856	818	820	780	732	720	659	/	631 ✓	623	3118	656	3258
Tcsw	835	849	861	845	796 817	747	698	682	648	624	589	584	567	573	562 ✓	558	2856	576	2926
CFM _N -N1	748	783	803	798	749	704	673	641	629	606	574	560	513	529	529 ✓	499	2644	534	2770

Database for ISM - LL'

Main Mass

used to build
file for Brent
Henderson, 25
205m, 25

SECTION LL'

ELEVATIONS of UNIT TOP

File for
Henderson
20 Jan 195

UNIT / Pos	L'										GHOST DANCE FAULT ✓				BOW RIDGE FAULT ✓			
	USWH-5										MW	FW		MW	FW			
	0	400	800	1200	1600	2000	2400	2800	3200	3600	Z	I	Z	I	Z	I	Z	I
MS-PTW ✓	1357	1304	1259	1225	1184	1164	1126	1068	1058	968	1224	1071	1237	1073	961	3073	1085	3128
Tpew-Tsw1 ✓	1310	1256	1212	1171	1137	1130	1100	1040	1034	946	1179	1066	1190	1067	941	3064	1065	3119
Tsw2+3 ✓	1208	1163	1118 873	1085	1004	920	857	762	PINCH OUT	643	1088	1055	1107	1057	703	2947	PINCH OUT	
CHW1-2 ✓	966	911	873 746	852	817	817	788	706	749 567	461	953	1027	874	1029	678	2933	811	3003
PPW ✓	854	782	746 719	705	662	649	610	525	567 511	407	727	1012	741	1013	516	2842	656	2919
CFW ✓	818	752	719 531	662	611	588	554	469	511 415	314	697	1008	709	1009	466	2812	602	2892
Tcbw ✓	682	597	531 475	489	476	491	448	/	415 361	/	502	984	521	987	405	2773	525	2848
CFMw-n1 ✓	641	541	475	437	425	440	397	—	361	—	447	977	470	981	356	2741	480	2821

✓/✓

Start: 8:30am
Finish 4:15pm

50% Geol
50% report

Alan
Mason

Tuesday 10 March 1992

Add

Rainier Mesa

Tiva Canyon

to sections for 3d modelling.

Full Colour

Colour	Pen	Unit
Blue	6	Tmra
Yellow	5	Tpcw
Aqua APM	4	n3-PTn
Green TSw1	3	Tptw-TSw1
Red Violet	8	TSw2
Yellow	5	CHn1-n2
Red	7	PPw
Violet	2	CFUn
Blue	6	Tcbw
	/	CFMn-n1

Welded/non-weld

Colour	Pen	Unit
Yellow	5	Tmra
Green	3	Tpcw
Yellow	5	n3-PTn
Green	3	Tptw-TSw1
Green	3	TSw2
Yellow	5	CHn1-n2
Green	3	PPw
Yellow	5	CFUn
Green	3	Tcbw

Plot files

3d A colour.dat

3d weld AP.dat

We double checked the "regional" elevations for the top of Tptw and:

Choice of "regional"

Within the Calico Hills the top of the Topopah Spring Member of the Paintbrush Tuff (Tptw) is exposed at elevations of approximately 1190m (Frizzell and Shulters 1990). In Little Skull, and Skull Mountains, the base of the Topopah Springs Member is exposed at elevations of 1128-1450m (Maldonado 1985). These are the closest exposures of Tertiary volcanic rocks to the east of the area mapped by Scott and Bonk (1984), and for which well-constrained geological cross sections exist. Within the area mapped by Scott and Bonk, and shown on their section AA' the highest elevation of the top of the Tptw in the deformed hangingwalls is 1525m (northwest end of section AA'). Therefore assuming a thickness of 330m for the Tptw (Scott & Bonk 1984) the

constraints on the elevation of the top of the Tptw east of Forty Mile Canyon are 1780m (max) and 1525m (min) (Figure ??). We assume that this represents the pre-deformational "regional" level of the top of the Tptw. In the absence of evidence for major thickness changes in the Paintbrush Tuff and contiguous stratigraphic units, we further assume that this regional was initially horizontal within narrow limits.

Alan

Mason

APM

88

Start 8:15am
Finish 8:45pm
12:00hrs

Thursday 12 March 1992

Contouring + Plotting

3d AP colour.dat
3d BL colour.dat
3d EM colour.dat

} Full colour plots

3d weld AP.dat
3d weld BL.dat
3d weld EM.dat

} welded vs. non-welded

APM

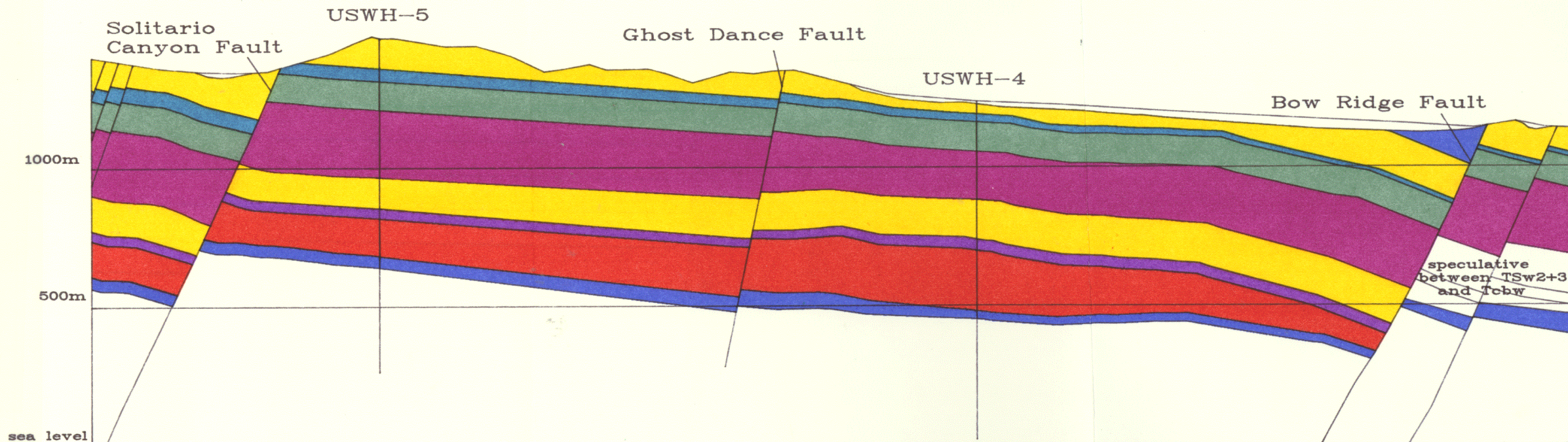
Start: 8:00 am
Finish: 3:30 pm
(mostly non-geologic)
Total 7.5 hrs

89

Monday 16 March 1992

Plotting problems finally fixed - all data P. 1. 1

Section AA' and PP'



- Tmrn: Rainier Mesa Member, Timber Mountain Tuff, non-welded
- Tpcw: Tiva Canyon Member, Paintbrush Tuff, welded
- n3-PTn: non-welded tuff
- Tptw-TSw1: Topopah Spring Member, Paintbrush Tuff, welded, zone of large lithophysae
- TSw2+3: Topopah Spring Member, Paintbrush Tuff, welded, zone of flattened lithophysae
- CHn1.3-n2: Calico Hills, non-welded tuff
- PPw: Prow Pass, welded tuff
- CFUn: Crater Flat, non-welded tuff
- Tcbw: Bullfrog Member, Crater Flat Tuff, welded

1000 meters

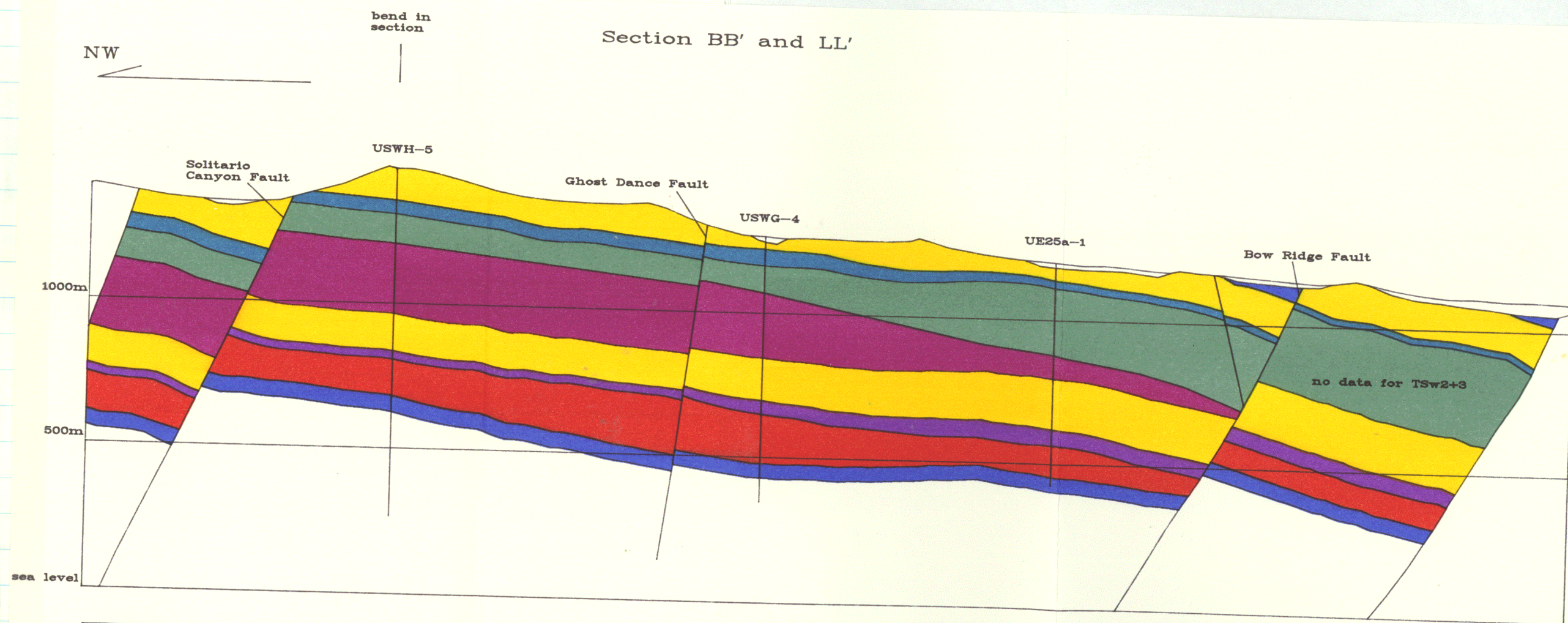
12th March 1992
apm

Start: 8:00 am
 Finish: 3:30 pm
 (mostly non-geologic)
 Total 7.5 hrs

Monday 16 March 1992

Plotting problems finally fixed - all plots for 3rd performance assessment project completed.

Section BB' and LL'



- Tmrn: Rainier Mesa Member, Timber Mountain Tuff, non-welded non-welded tuff
- Tpcw: Tiva Canyon Member, Paintbrush Tuff, welded non-welded tuff
- n3-PTn: non-welded tuff
- Tptw-TSw1: Topopah Spring Member, Paintbrush Tuff, welded, zone of large lithophysae
- TSw2+3: Topopah Spring Member, Paintbrush Tuff, welded, zone of flattened lithophysae
- CHn1.3-n2: Calico Hills, non-welded tuff
- PPw: Prow Pass, welded tuff
- CFUn: Crater Flat, non-welded tuff
- Tcbw: Bullfrog Member, Crater Flat Tuff, welded

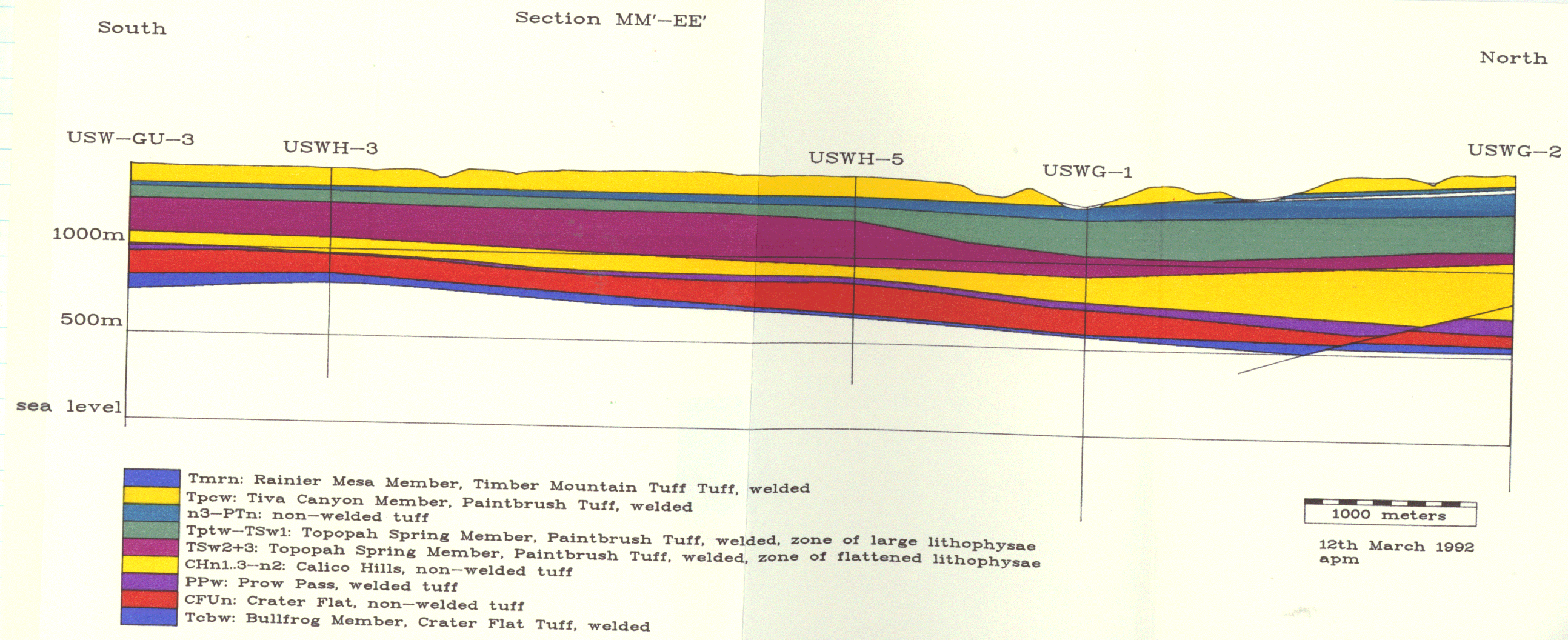
1000 meters

12th March 1992
 apm

Start: 8:00 am
Finish: 3:30 pm
(mostly non-geologic)
Total 7.5 hrs

Monday 16 March 1992

Plotting problems finally fixed - all plots for 3rd performance
assessment project completed.



90

Start: 8:15am
Finish 4:00pm

Tuesday 17 March 1992

South

Section MM'-EE'

North

USW-GU-3

USWH-3

USWH-5

USWG-1

USWG-2

1000m

500m

sea level

- Tmrn: Rainier Mesa Member, Timber Mountain Tuff Tuff, welded
- Tpow: Tiva Canyon Member, Paintbrush Tuff, welded
- n3-PTn: non-welded tuff
- Tptw-TSw1: Topopah Spring Member, Paintbrush Tuff, welded, zone of large lithophysae
- TSw2+3: Topopah Spring Member, Paintbrush Tuff, welded, zone of flattened lithophysae
- CHn1.3-n2: Calico Hills, non-welded tuff
- PPw: Prow Pass, welded tuff
- CFUn: Crater Flat, non-welded tuff
- Tobw: Bullfrog Member, Crater Flat Tuff, welded

1000 meters

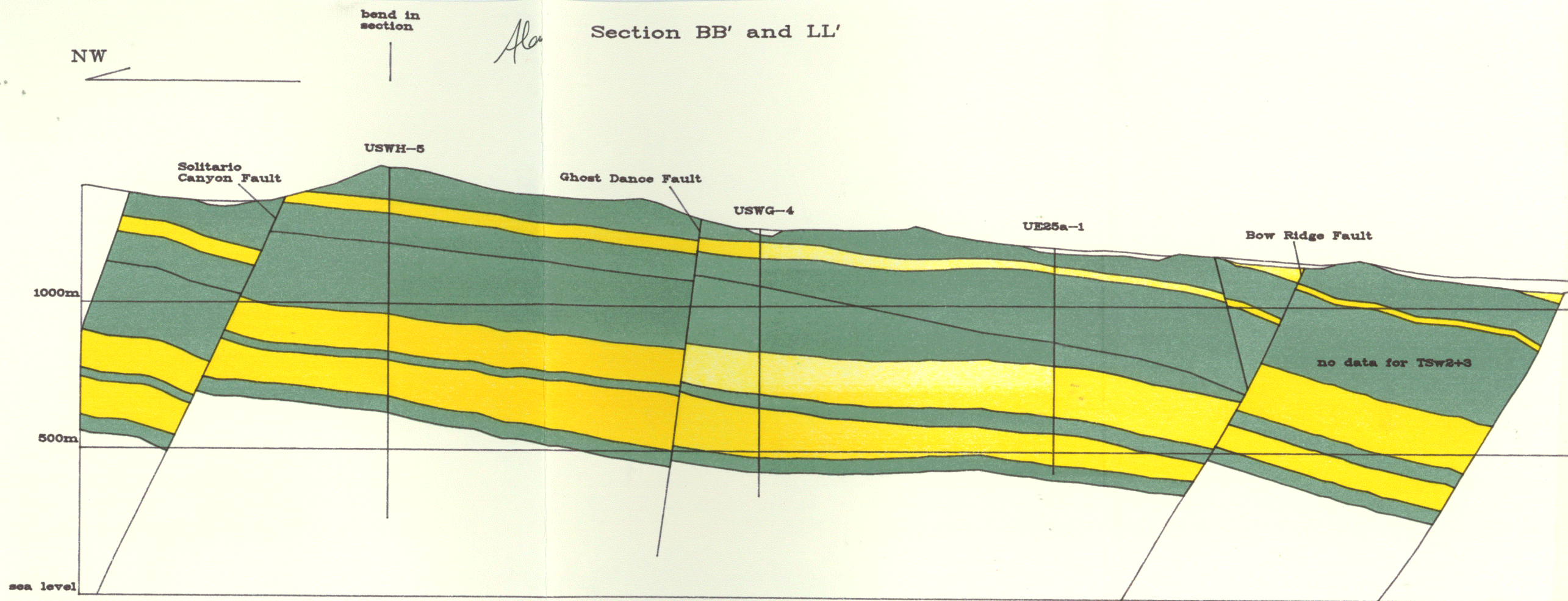
16th March 1992
apm

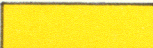








Yellow: non-welded
Green: welded

90

Start: 8:15am
Finish: 4:00pm

Tuesday 17 March 1992



- | | |
|---|---|
|  | Tmrn: Rainier Mesa Member, Timber Mountain Tuff, non-welded non-welded tuff |
|  | Tpaw: Tiva Canyon Member, Paintbrush Tuff, welded non-welded tuff |
|  | n3-PTn: non-welded tuff |
|  | Tptw-TSw1: Topopah Spring Member, Paintbrush Tuff, welded, zone of large lithophysae |
|  | TSw2+3: Topopah Spring Member, Paintbrush Tuff, welded, zone of flattened lithophysae |
|  | CHn1.3-n2: Calico Hills, non-welded tuff |
|  | PPw: Prow Pass, welded tuff |
|  | CFUn: Crater Flat, non-welded tuff |
|  | Tobw: Bullfrog Member, Crater Flat Tuff, welded |

Yellow: non-welded
Green: welded

1000 meters

16th March 1992
apm

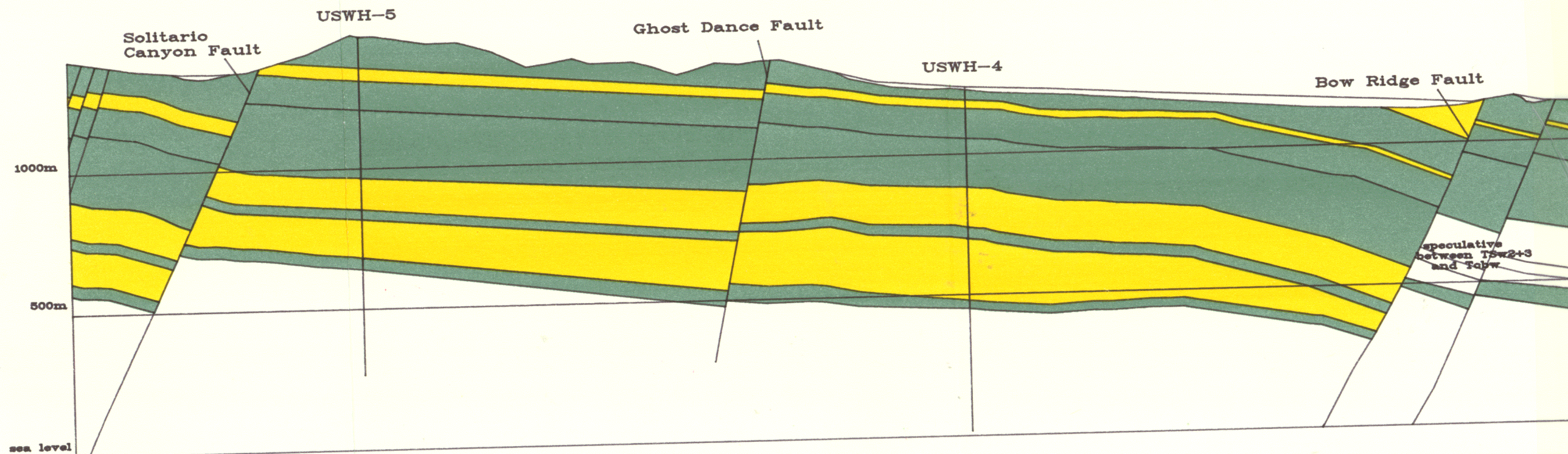
Start 10:30a
Finish 8:30pm

Wednesday 18 March 1992

Plotted cartoons for ABB'

Worked on report

Section AA' and PP'



- Tmrn: Rainier Mesa Member, Timber Mountain Tuff, non-welded
- Tpcw: Tiva Canyon Member, Paintbrush Tuff, welded
- n3-PTn: non-welded tuff
- Tptw-Tsw1: Topopah Spring Member, Paintbrush Tuff, welded, zone of large lithophysae
- Tsw2+3: Topopah Spring Member, Paintbrush Tuff, welded, zone of flattened lithophysae
- CHnl.3-n2: Calico Hills, non-welded tuff
- PPw: Prow Pass, welded tuff
- CFUn: Crater Flat, non-welded tuff
- Tobw: Bullfrog Member, Crater Flat Tuff, welded

Yellow: non-welded
Green: welded

16th March 1992
apm

Start: 10:00am
Finish: 5:00pm

Thursday 19 March

ABB'

<u>Fault</u>	<u>Throw</u>	<u>Heave</u>
Solitario	200	85
Bow Ridge	105	46
Midway Vall	99	43
Paintbrush	424	197
40 Mile	1030	457

Hen

Morri

Start 9:45am
Finish 7:00pm

Friday 20 March

Milestone 1 deadline ~~2~~ end of April

Section CC'

<u>Fault</u>	<u>Throw</u>	<u>Heave</u>
Bow Ridge	123	56
Paintbrush	154	65
Fran Ridge	232	75
40 Mile	1051	467

Hen

Morri

Start 12:00pm
 Finish 5:00pm
 SHS.

Tuesday 24 March 1992

GEOSEC + Report writing.

Men

Moss

Start 9:00am
 Finish 4:00pm

Tuesday 31st March 1992

All volcanic project reading.

Men

Moss

Start 8:30am
Finish 6:30pm

Thursday 2nd April 1992

Plotting + treating sections for milestone.
Steve wants one of the sections to have an
example of flex slip.

Project

Plot Files

swri-milestone-
ABstrat.db

abbdour.dat

stratcolour.dat

abbbw .dat

stratbw.dat

swri-milestone-

Aplot.db

aacolour.dat

aabw .dat

swri-milestone-

C.db

ccolour.dat

cbw .dat

swri-milestone-

Bplot.db

bbcolour.dat

bbbw .dat

swri-milestone-

Eplot

EEcolour.dat

eebw .dat

Alan
Murray

Pen	Colour	Unit
5	Yellow	atuc
APM 3	Green	Tmru
4	Aqua	Tpcw
APM -	Blue	n3
7	Red	Tpyw
-	-	n3
5	Yellow	Tptw
6	Blue	n2
4	Aqua	Tcbw
-	-	n1
7	Red	Tctn
6	Blue	Tctw
2	Violet	n
3	Green	Tcr
8	RedViol	Tot
5	Yellow	Tyf
4	Aqua	Pzu

Alan

Murray

98

Start 8:30am

Finish 5:00pm

Thursday 9 April

Plotting for milestone 1 report

Men

Maozi

S

U
1500

1000

500

0,0

-500

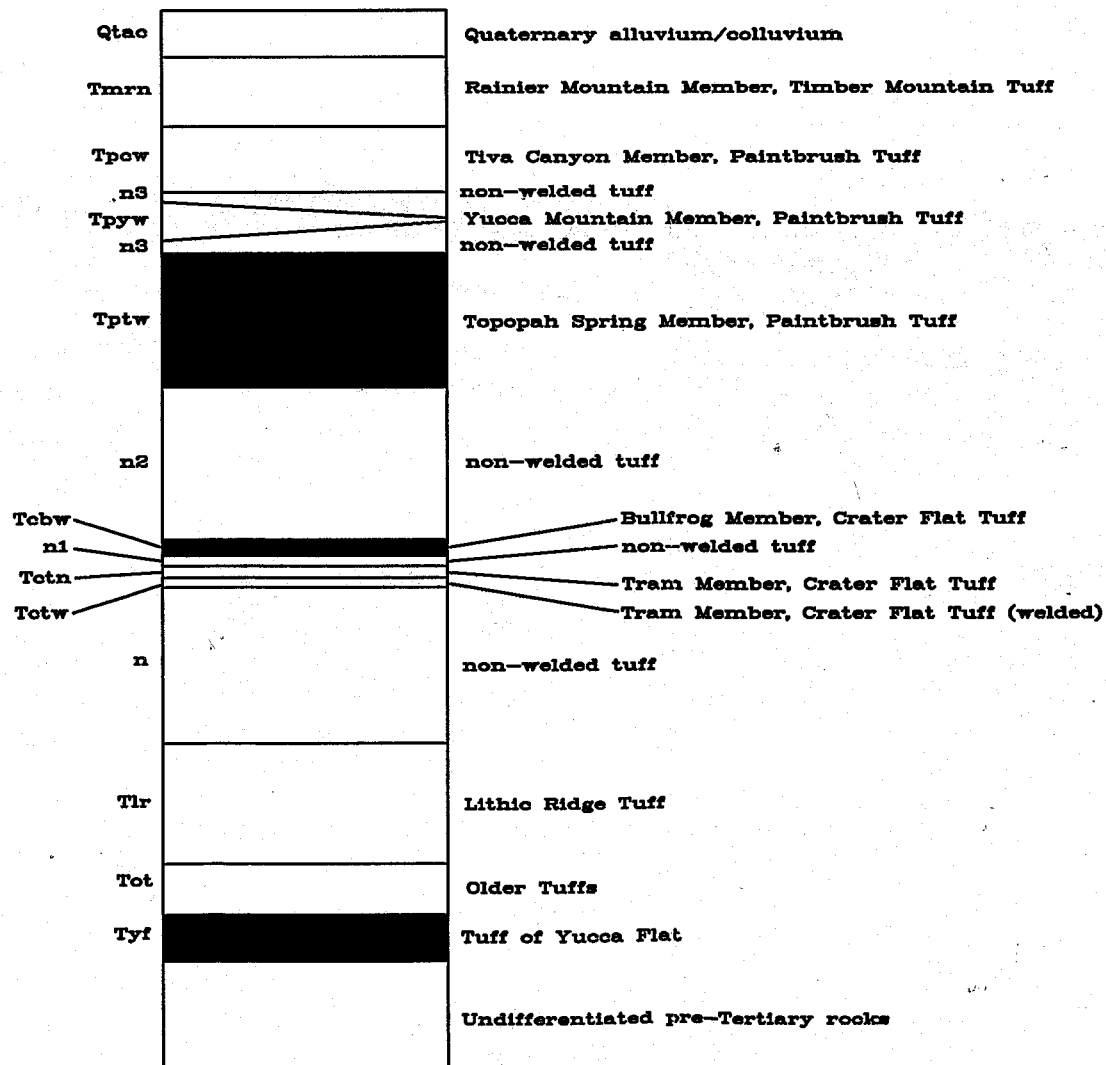
Meters

Information potentially subject to copyright protection was redacted from this location.
The redacted material is a line drawing of Yucca Crest. There is no other information
available.

Hem

Hem

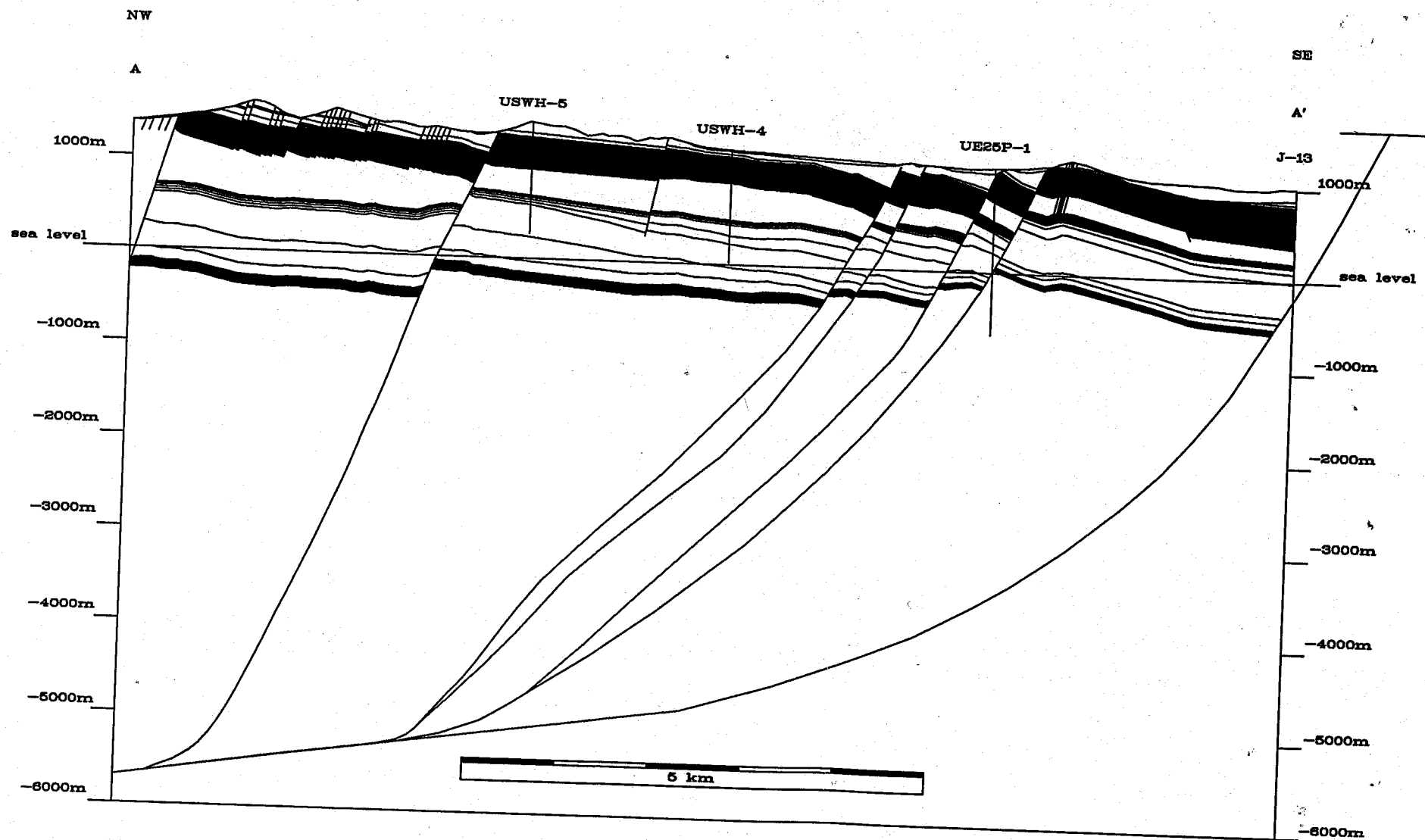
Stratigraphic column for sections



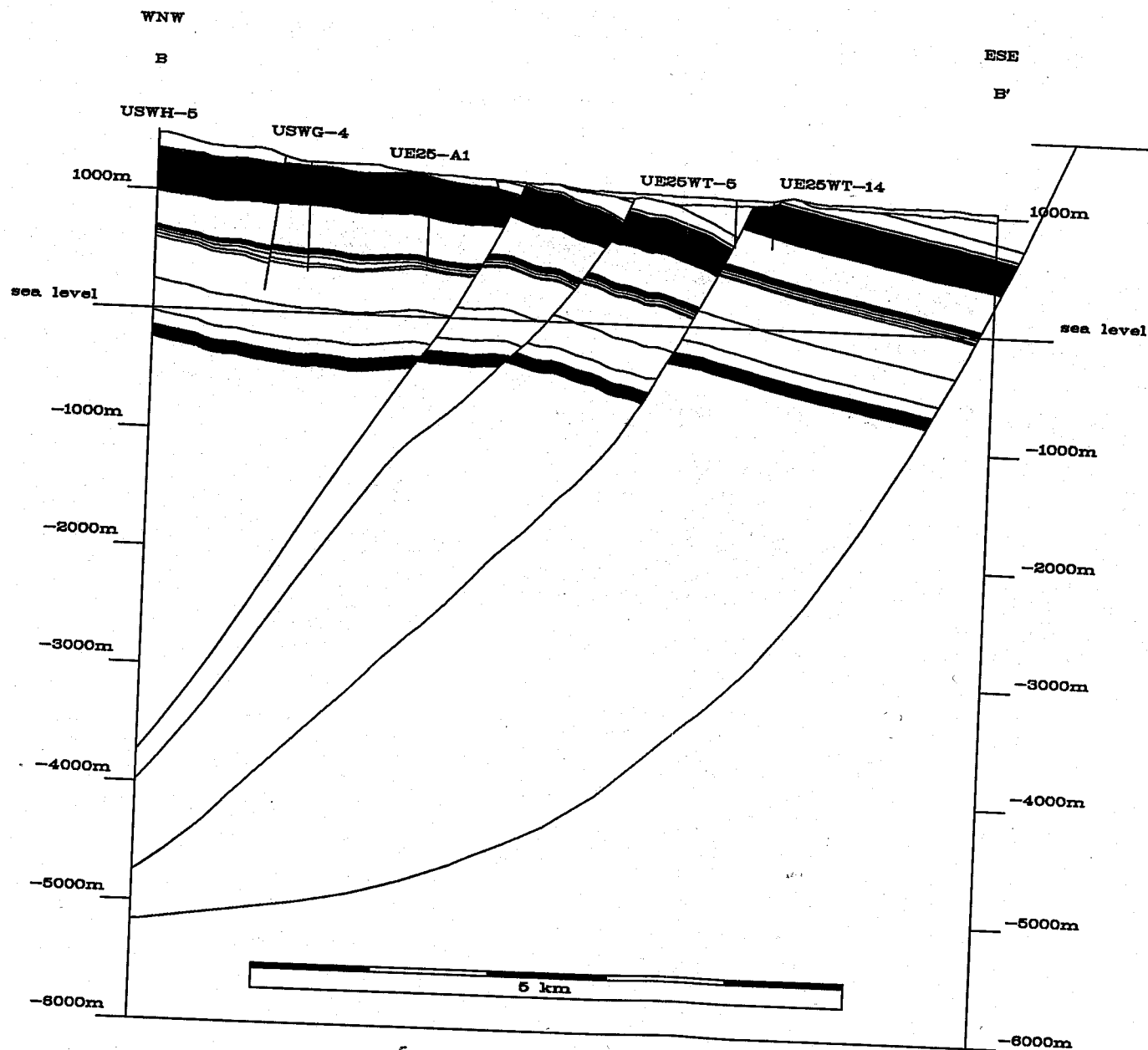
Alan

Merrin

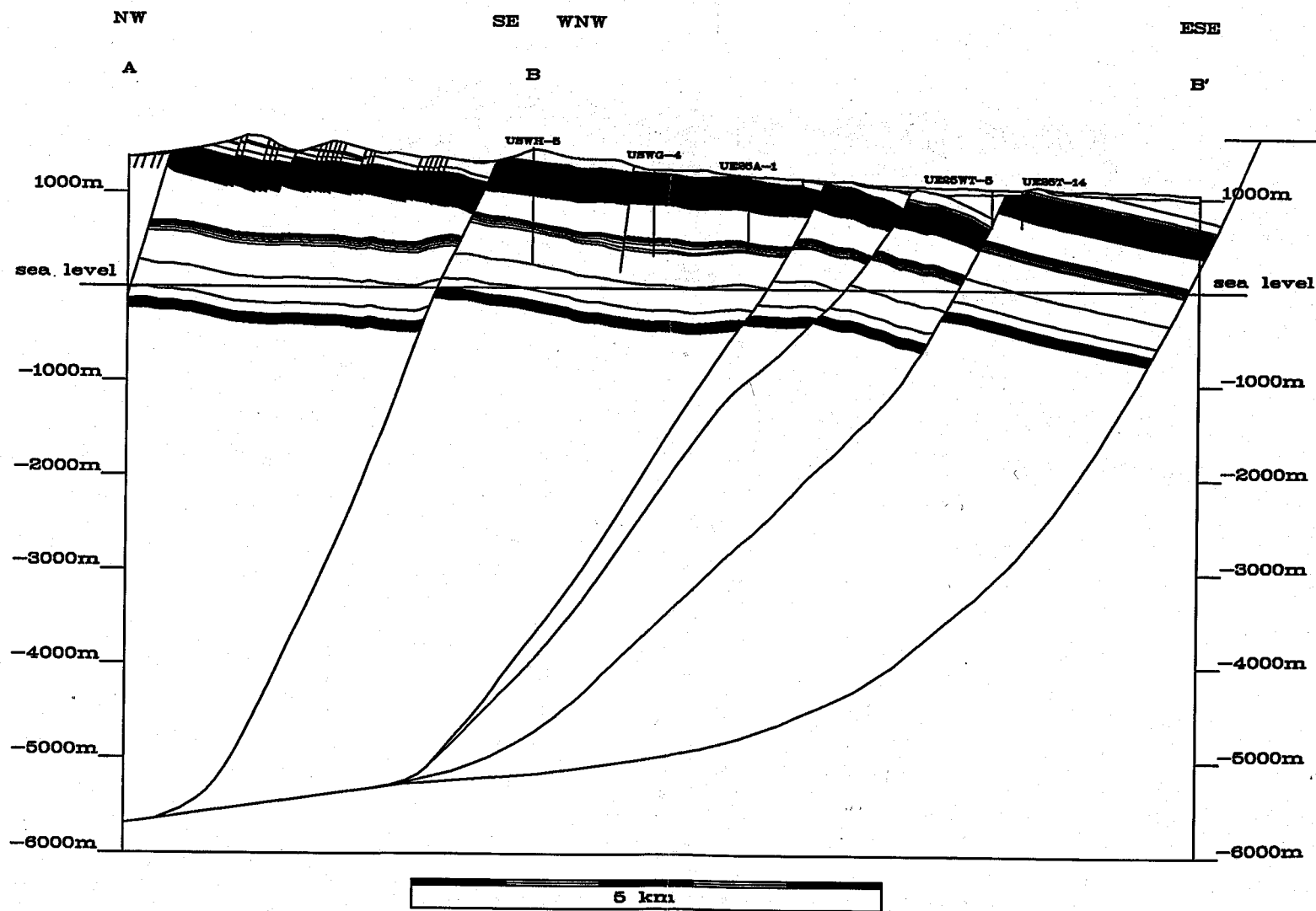
Section AA', Revised present-day interpretation



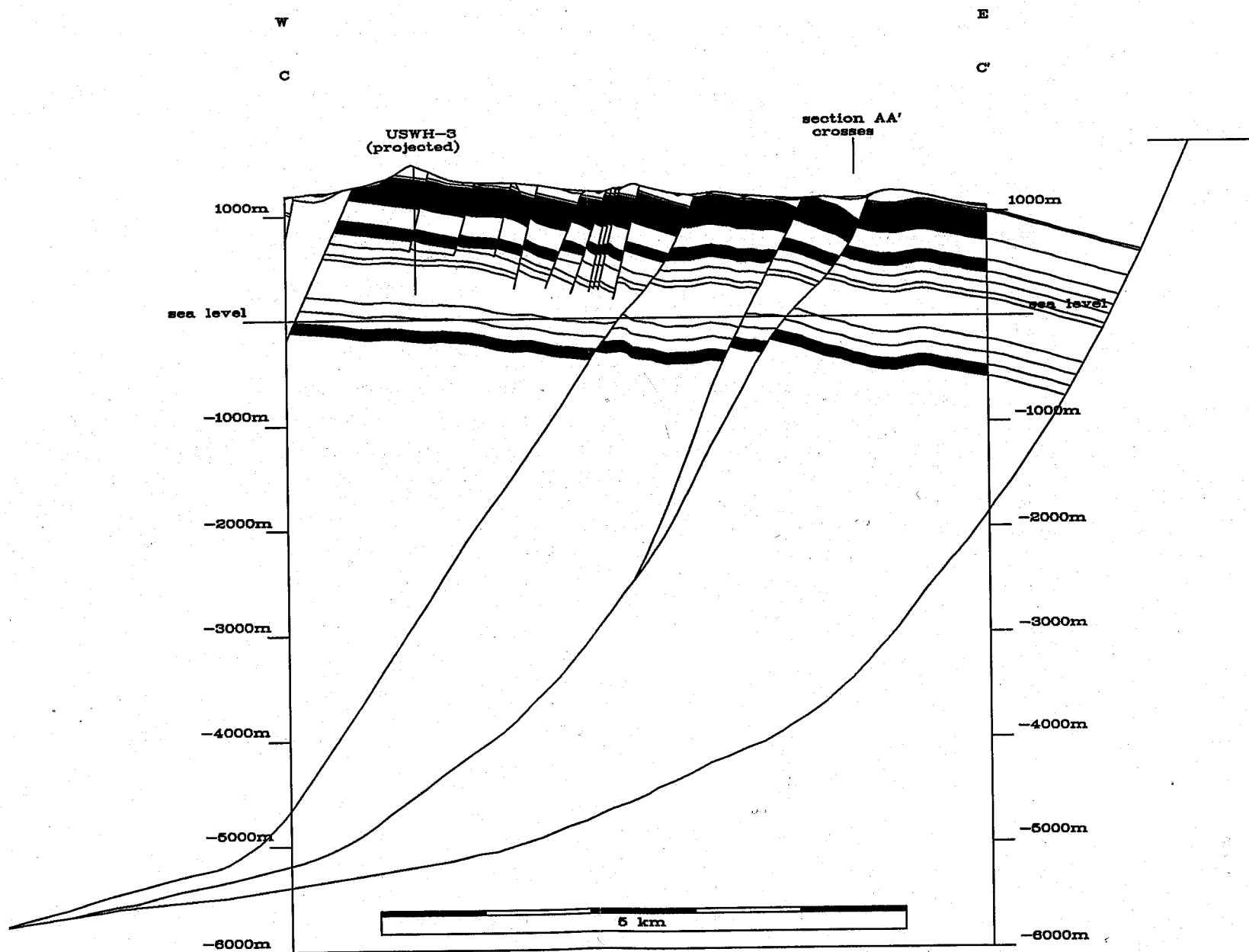
Section BB'
Revised present-day interpretation



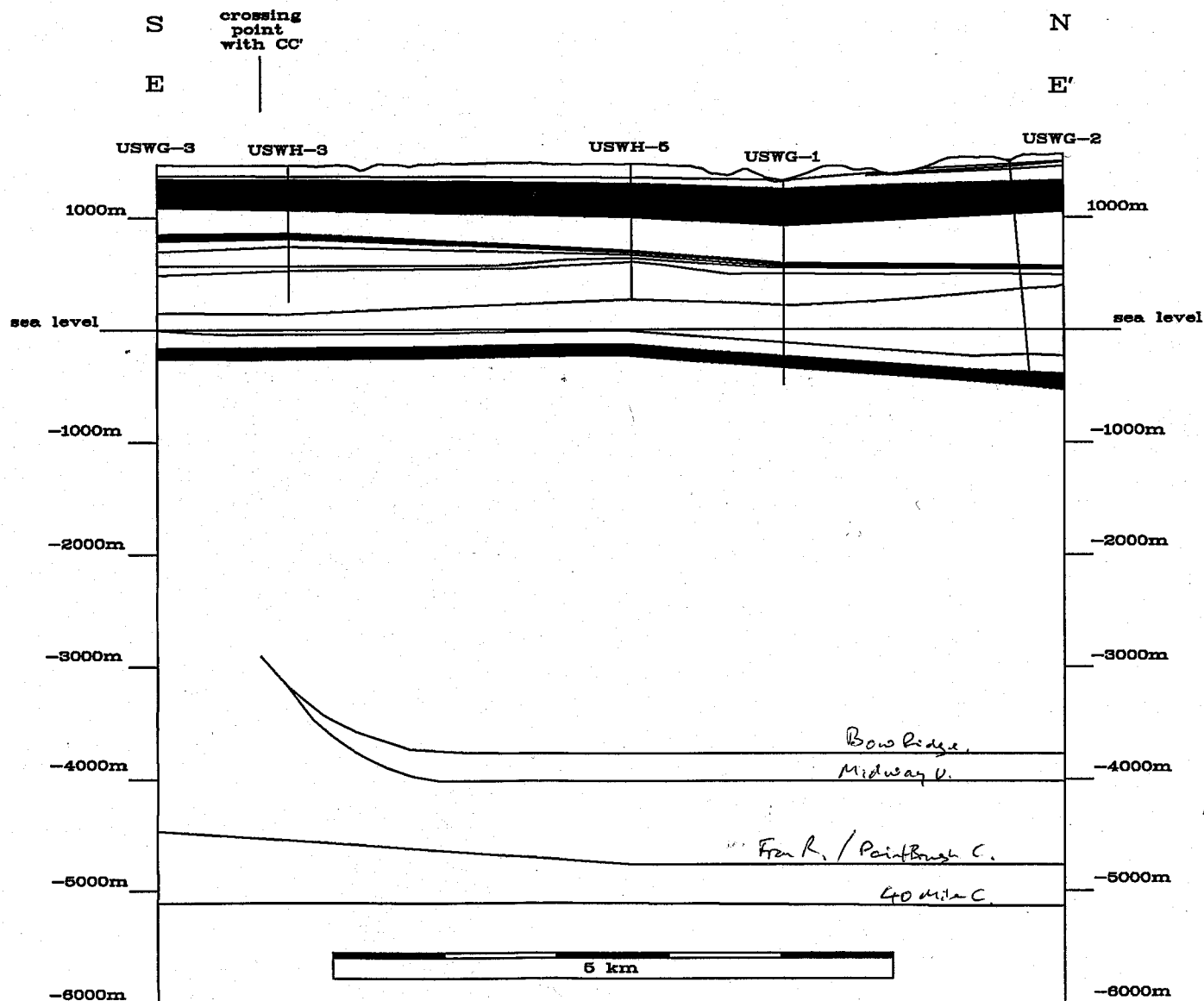
Section ABB', Revised present-day interpretation



Section CC', Revised present-day interpretation



Section EE'
Revised present-day interpretation



Start - 11:30am
Finish - 6:30pm

101

Tuesday 14 April 1992

Plotting for milestone report.

Hen

Moss

102

Start 5:00pm

Finish 10:00pm

Wed 15 April 1992

HP plotter pens

Colour	Reorder #	# (5) packs	# loose pens
--------	-----------	-------------	--------------

Aqua

Black

Blue

Brown

Green

Orange

Red

Red violet

Violet

Yellow

17825P

17831P

17827P

17839P

17841P

17843P

17833P

5

8

8

2

5

1

2

~~16~~ ~~15~~ ~~14~~ ~~13~~ ~~12~~ 11~~33~~ 32~~33~~ ~~32~~ ~~31~~ 29

9

~~33~~ ~~32~~ 31

13

~~30~~ ~~29~~ 28~~17~~ ~~16~~ 15~~23~~ ~~22~~ 21~~13~~ ~~12~~ ~~11~~

A. P.

A. P.

A. P.

TEXT SIZES D PAPER

(see p. 97)

Her
Muri

(NEAR LETTER QUALITY)

BIG 0.2
MED 0.1
SMALL 0.095
TINY 0.075

PEN	COLOUR
1	BLACK
2	VIOLET
3	GREEN
4	AQUA
5	YELLOW
6	BLUE
7	RED
8	RED VIOLET

PROJECT	PLOT FILE - FILL	PLOT FILE - TEXT + LINES
swri - milestone 1 - Aplot 2	abigfill.dat	abiglines.dat
swri - milestone 1 - Bplot	bbigfill.dat	bbiglines.dat
swri - milestone 1 - C	cbigfill.dat	cbiglines.dat
swri - milestone 1 - Aostat	abbigfill.dat	abbiglines.dat
swri - milestone 1 - Eplot	ebigfill.dat	ebiglines.dat

Her

Muri

Start 8:30am
Finish 12:45pm

Thursday 16 April 1992

Plotting.

work on Regional model

Suri - milestone 1 - bare mtn.

Hen

Masi

Start 8:30am
Finish 5:45pm

Tuesday 21st April 1992

some plotting

Some regional work

Some reading.

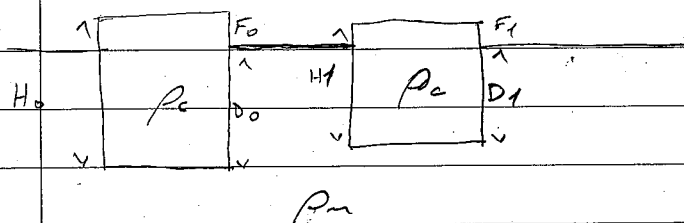
Hen

Masi

Start: 8:00am
Finish: 5:30pm

Tuesday 28 April 1992

Regional model



$$\frac{H_0}{D_0} = \frac{P_m}{P_c} = \frac{H_1}{D_1}$$

$$F_0 = H_0 - D_0$$

$$F_1 = H_1 - D_1$$

OR

T_{oc}	P_c
T_{om}	P_m

T_{ic}	P_c
T_{im}	P_m

$$T_{oc} - T_{ic} = \Delta T_c$$

$$T_{om} - T_{im} = \Delta T_m$$

$$\Delta F_c \cdot P_c = \Delta T_m \cdot P_m$$

$$T_{oc} = 20 \text{ km}$$

$$P_c = 2.85$$

$$T_{om} = 0$$

$$P_m = 3.33$$

$$\Delta T_m = \frac{\Delta T_c \cdot P_c}{P_m}$$

$$= \frac{\Delta T_c \cdot 2.85}{3.33}$$

ABB' sequence also plotted

absequence dat

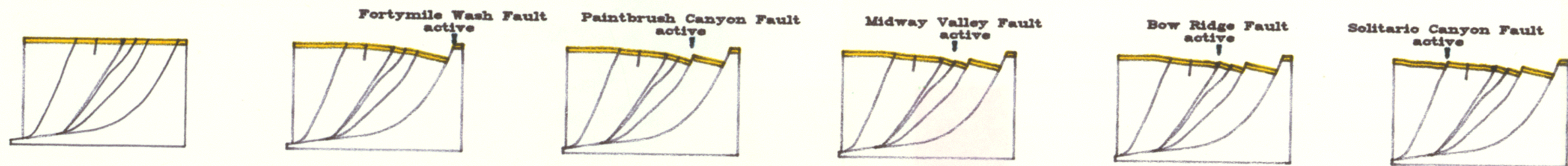
Alan

Moss

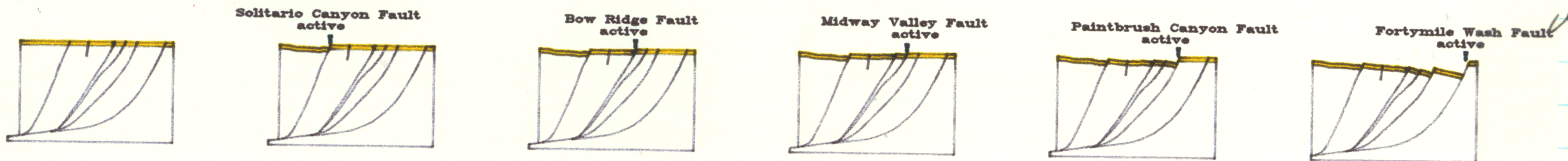
Alan

Moss

Backward breaking sequence



Forward breaking sequence



Alan

Wes

Start 1:30 pm.
Finish 6:30 pm

109

Wednesday 29th April 1992

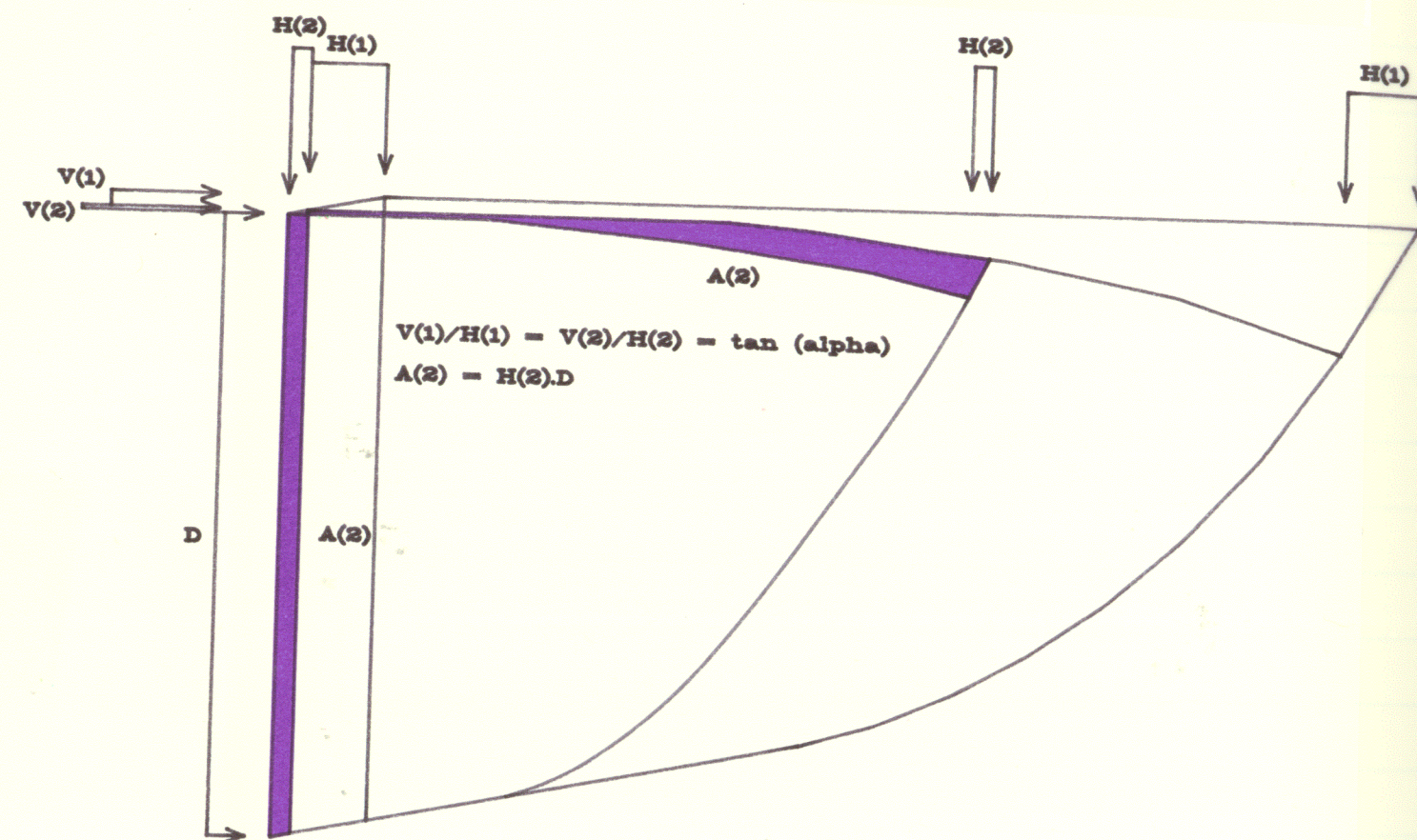
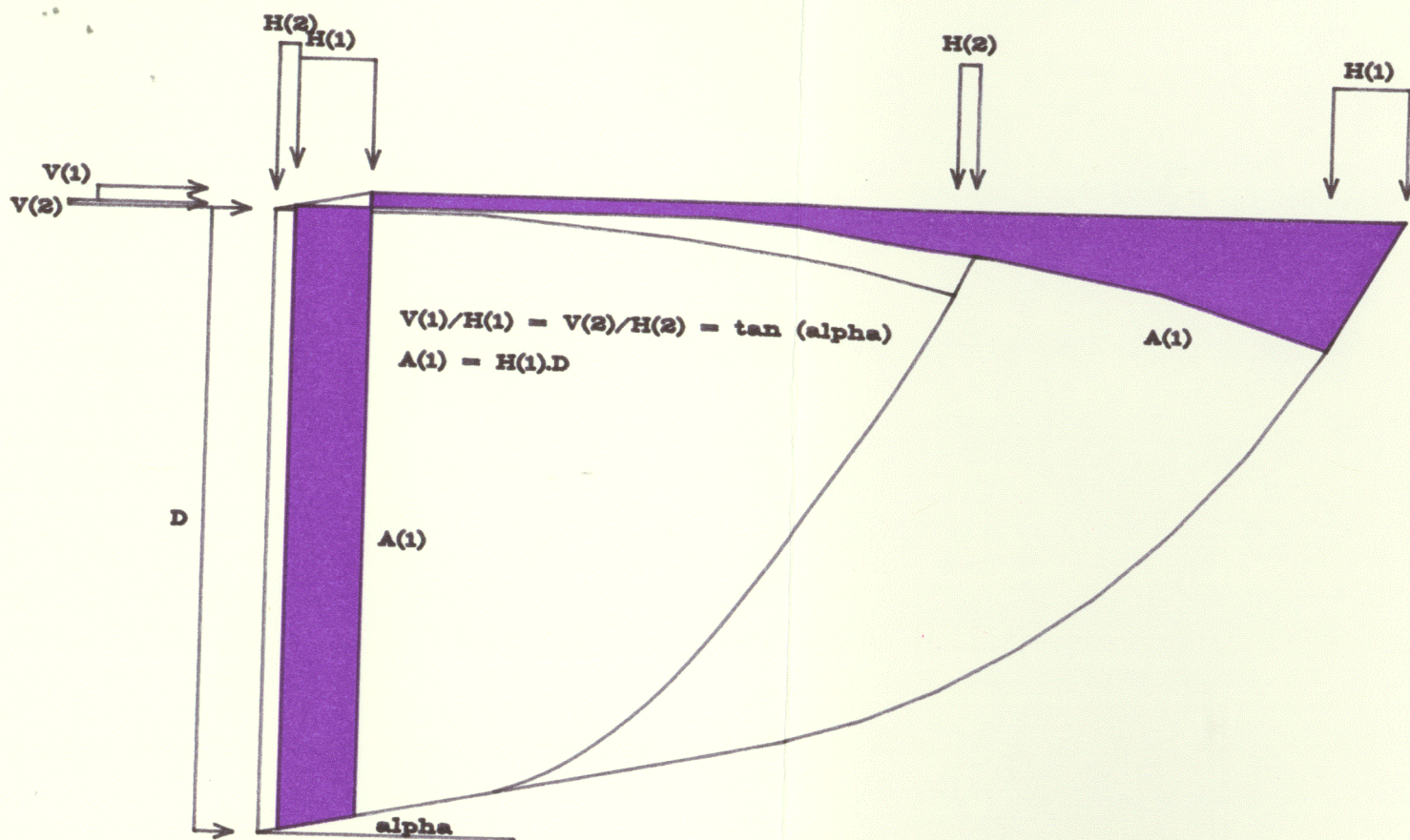
Discussion w/ Gerry + Steve
Report + paper.

Alan

Mark

Thursday 30 April 1992

Flow chart ab

Alan
Mans

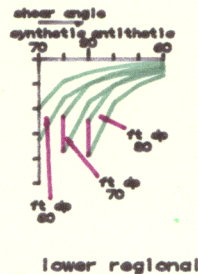
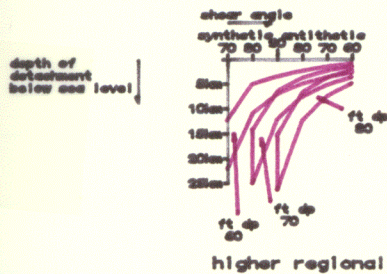
For coincidence of detachments, set:

$$V(1)/H(1) = V(2)/H(2) = \dots V(n)/H(n)$$

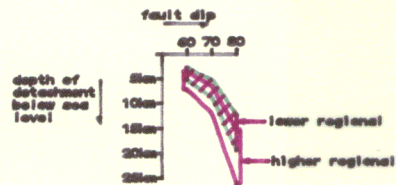
and:

$$A(1)/H(1) = A(2)/H(2) = \dots A(n)/H(n)$$

vertical/oblique shear solutions

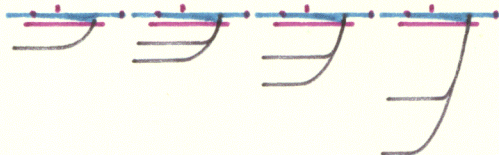


flexural slip solutions

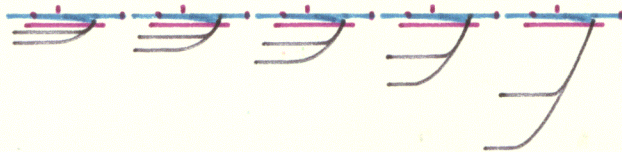


higher regional

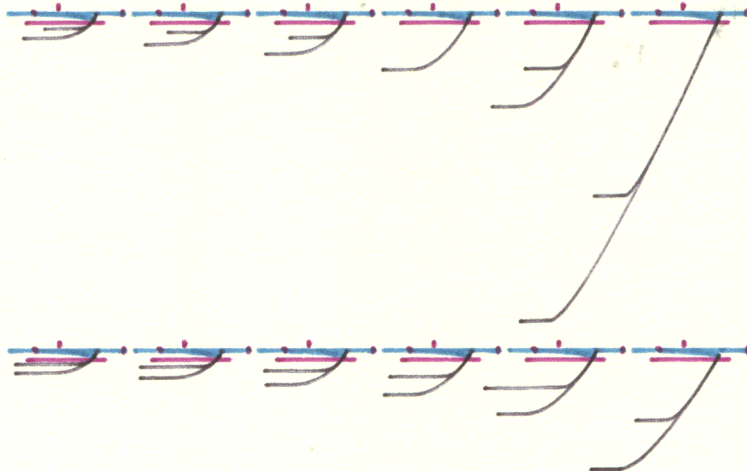
fault dip = 80



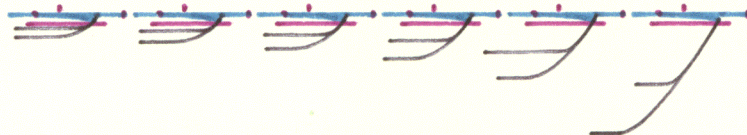
fault dip = 70



fault dip = 60

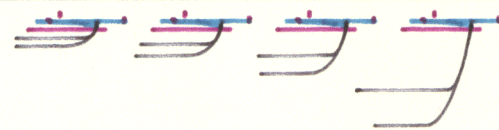


fault dip = 60

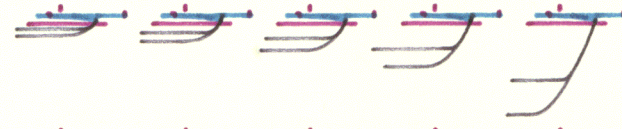


lower regional

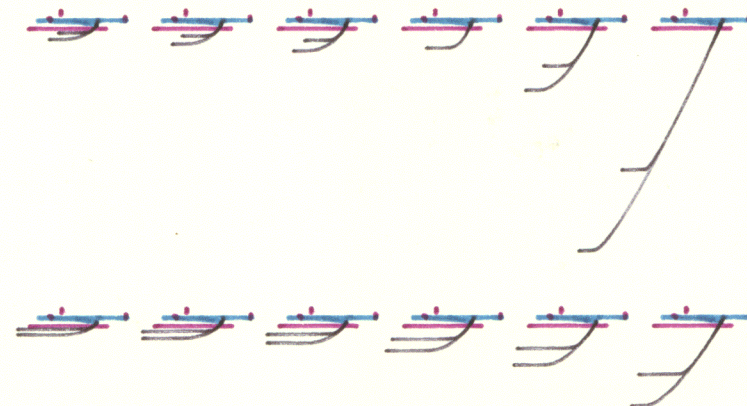
fault dip = 80



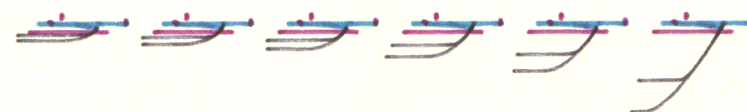
fault dip = 70



fault dip = 60



fault dip = 60



60

70

80

vertical

80

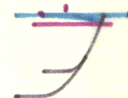
70

antithetic shear

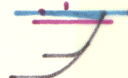
synthetic shear

higher regional

fault dip = 70



fault dip = 60

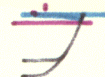


fault dip = 60

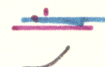


lower regional

fault dip = 70



fault dip = 60



fault dip = 60



10km

10 km

Hen
Morgan

112

Start: 12:30 pm
Finish: 7:00 pmFriday 1st May 1992Look up:

{ Activity 1.2 — DO (Av-1)
 { Activity 1.4 — DO (Alternatives)

Activity 1.5

~~Activity 1.4~~

Read, + rewrite to incorporate
field work.

Note

Zeke (Kent) Snow

" Right-lateral oblique slip "

on Yucca Mt? faults.

use Paranint as analogue.

STEVE ASKED ME TO TAKE OVER
THESE ACTIVITIES.

DEADLINE FOR 1.2 → late June

DEADLINE FOR 1.4 → end of September

ACTION ON 1.5 NEEDED NOW

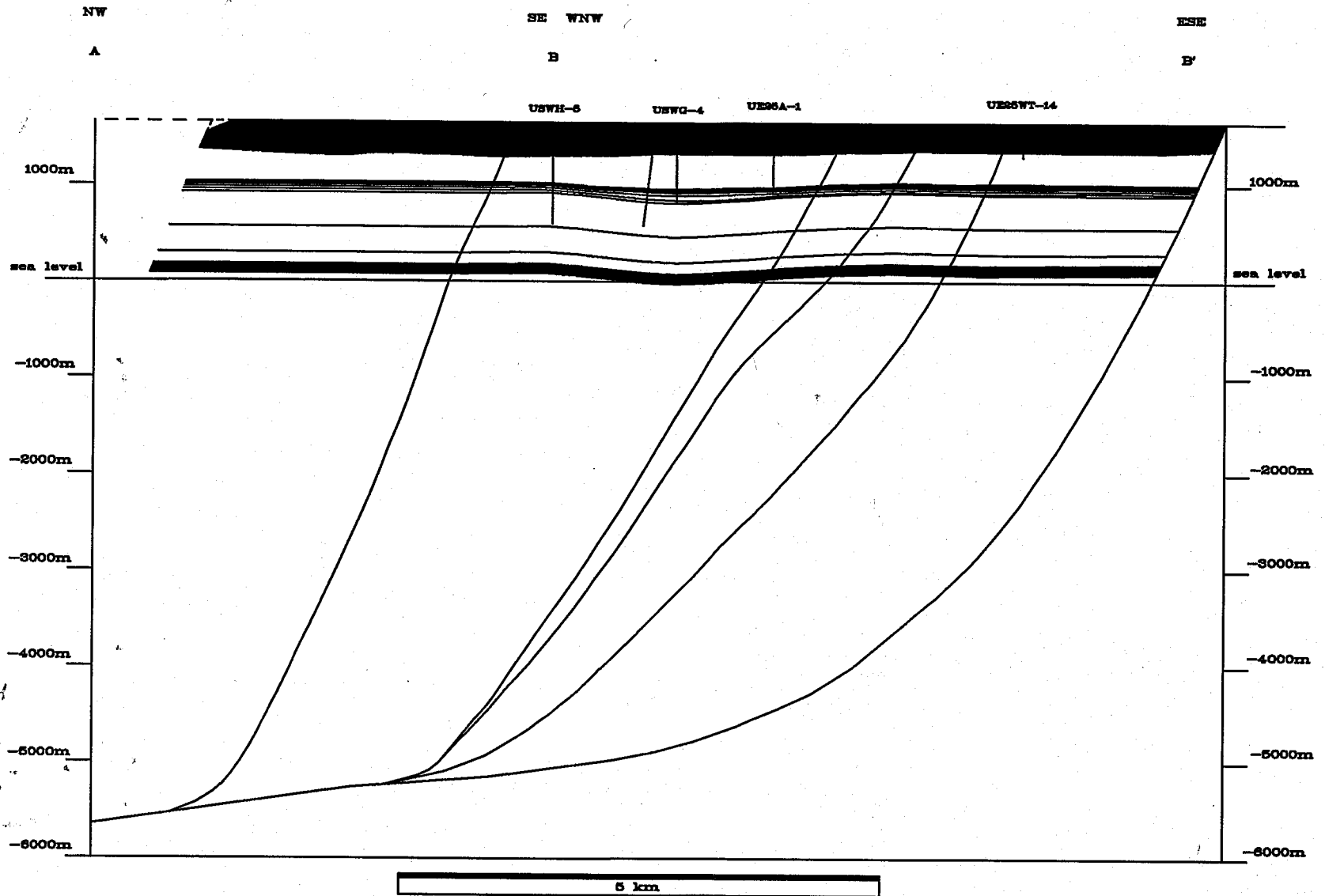
Ken

Maer

Handwritten signature

Handwritten signature

Section ABB'
Restored, revised interpretation
top Topopah Spring Member, Paintbrush Tuff



114

Start: 8:15

Finish: 6:30pm

Monday 4 May 1992

Moore

Information potentially subject to copyright protection was redacted from this location. The redacted material is a line drawing (a Figure 4.7) of Crater Flat. There is no other information available.

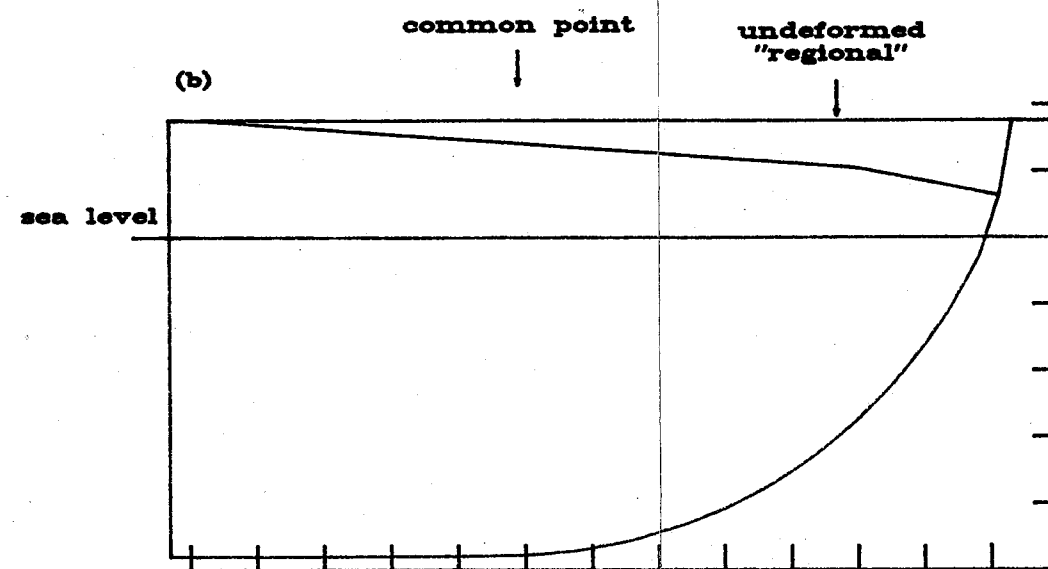
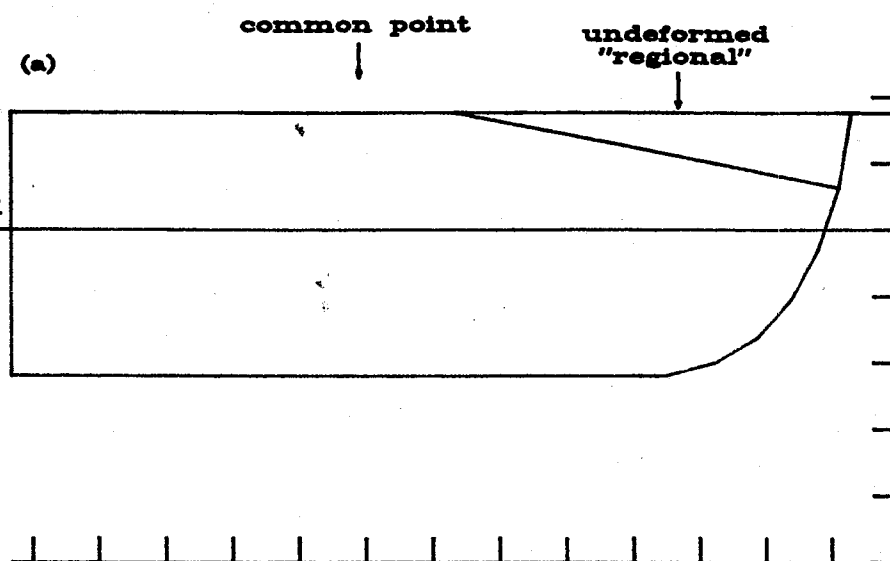
SEE FIGURE 4.7 FOR SECTION LOCATION.

Depth-to-detachment modelling, Fortymile Wash Fault

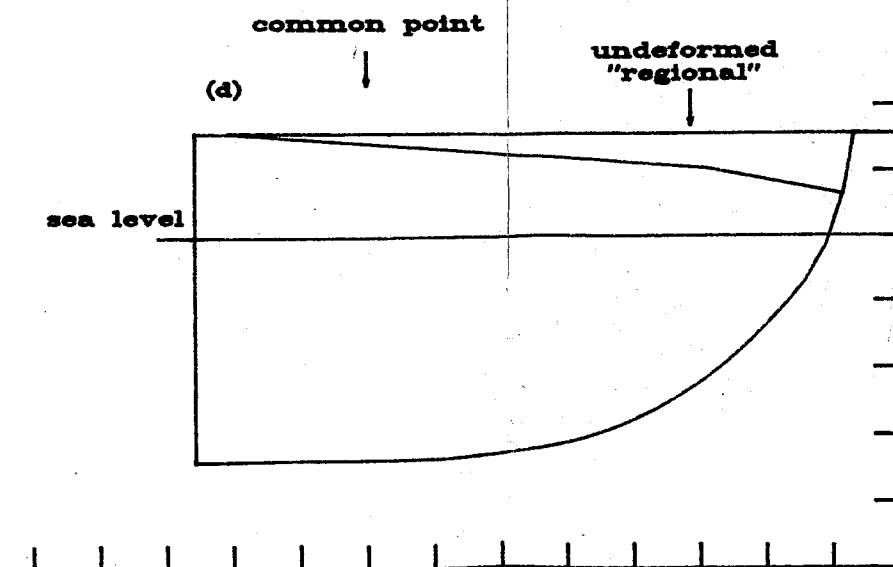
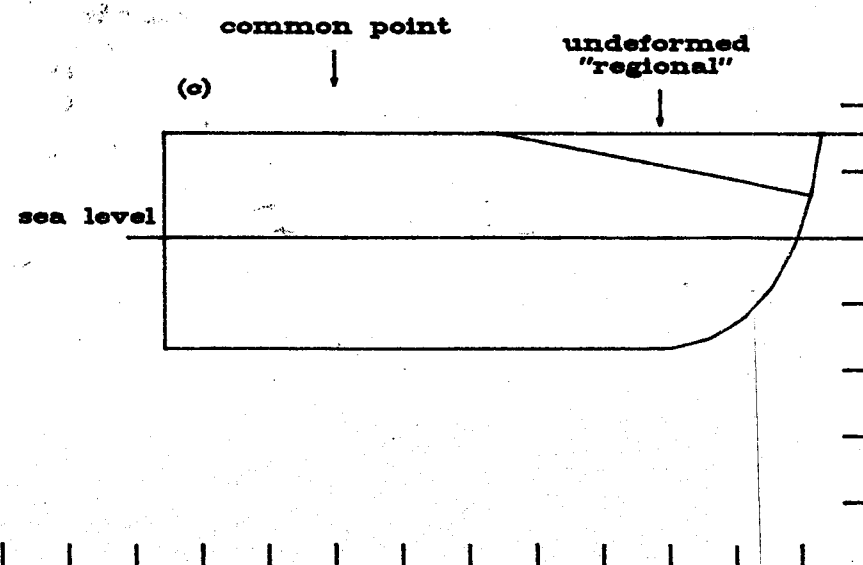
fault dip = 80

shear angle = 80 degrees antithetic

higher regional



lower regional



vertical and horizontal scales have the same origin, and are graduated in km

Information potentially subject to copyright protection was redacted from this location. The redacted material is a map of Nevada including Sarcobatus Flat. There is no other information available.

(Monday 4th May 1992)

Act. 1.2 Interpretation of AV-1, construction of balanced section, calibration of shear angle, ? growth.

NEEDS

AV-1

Velocity model

Steve's initial interpretations from report - May 1992

Act. 1.4 Development and testing of alternative models for faulting at Yucca Mt.

NOTES Test oblique-slip // north-trending strike-slip fault
? Domino

NEEDS

Date on GROWTH - if any. This means detailed stratigraphy from Tertiary volcanics.

Act. 1.5 Construction of suite of sections through Yucca Mt.

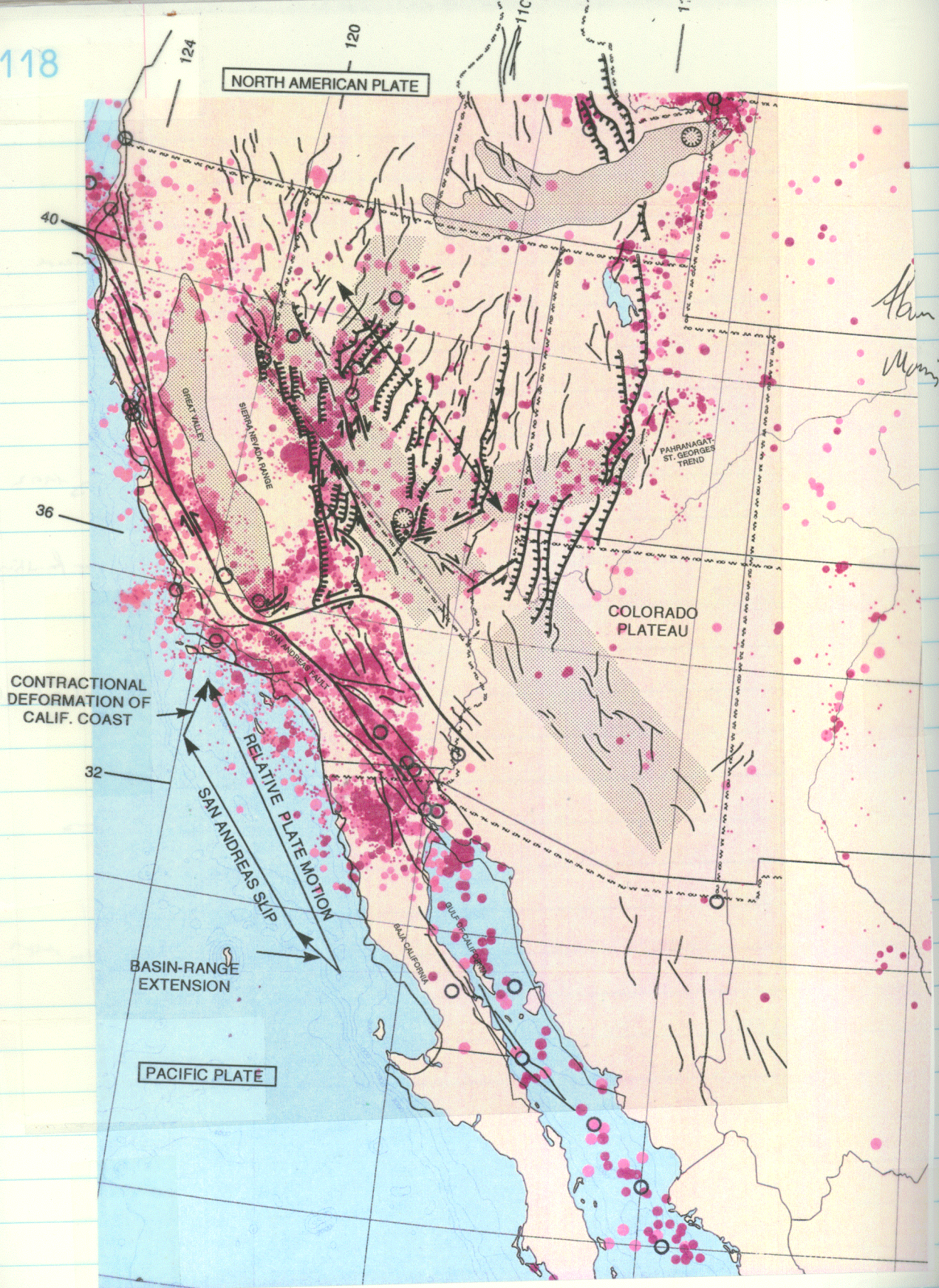
NOTES

Use the balanced map concept

Look for piercing points.

NEEDS

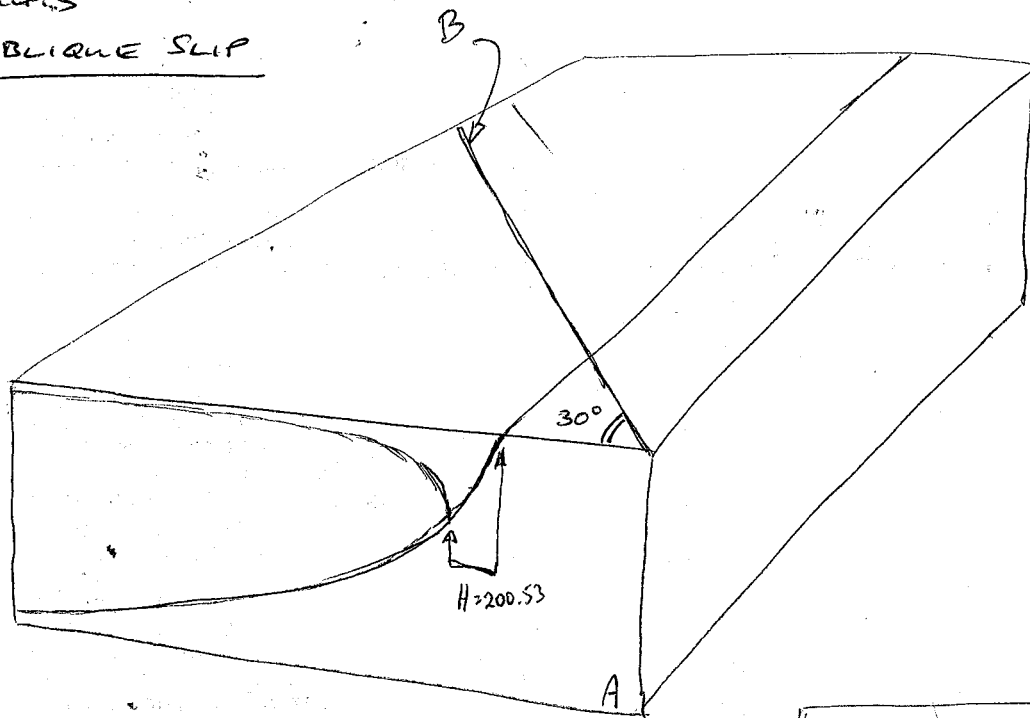
Field work along chosen section lines to focus + amplify usable field data.



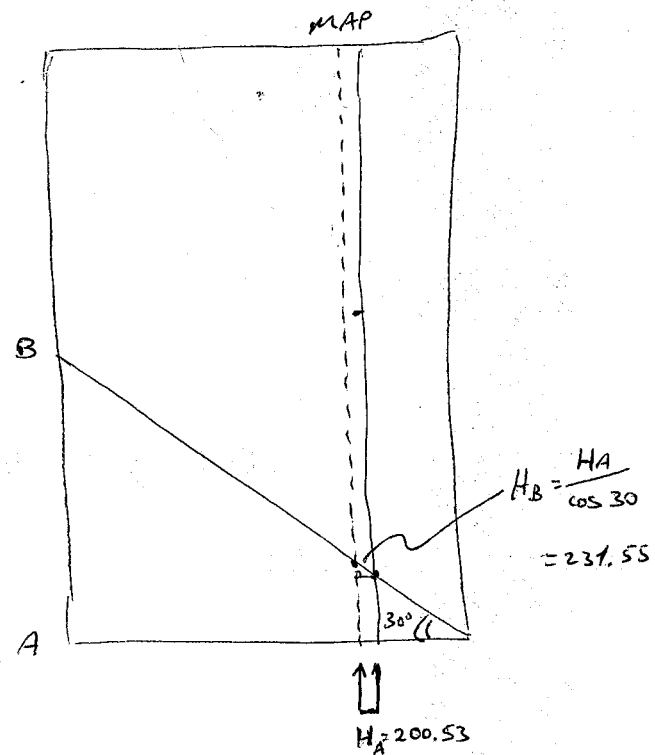
Alan Hoen

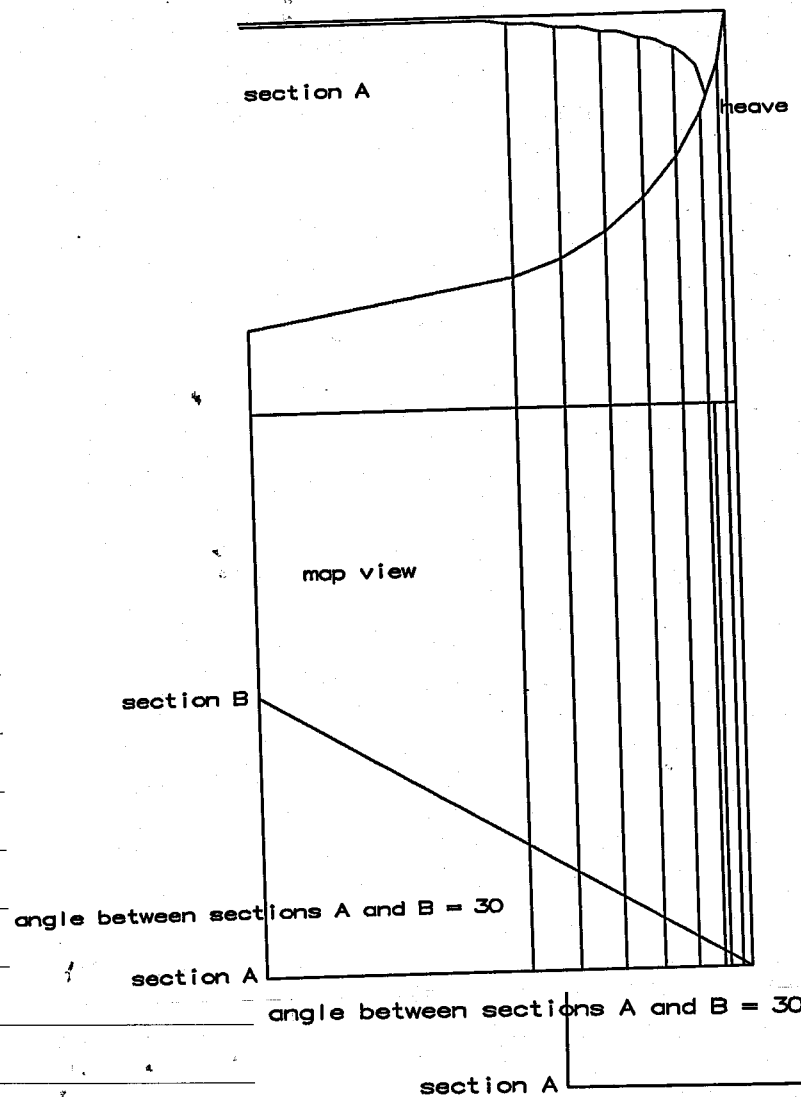
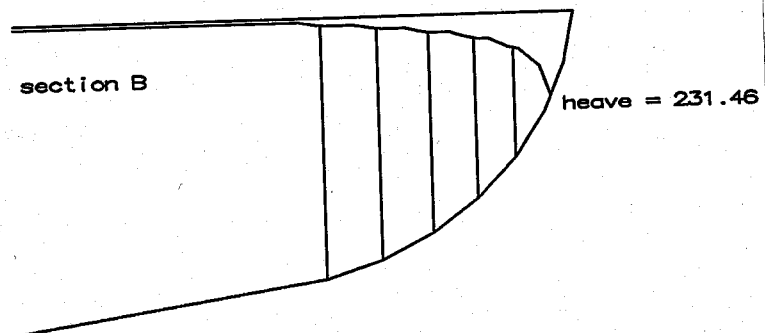
THOMAS

ON OBLIQUE SLIP



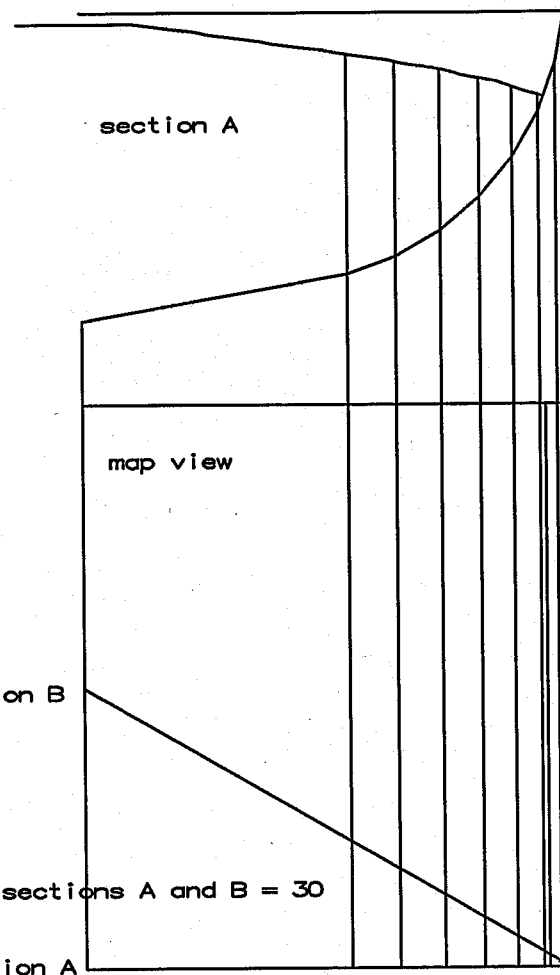
FAULT
IS "CYLINDRICAL"



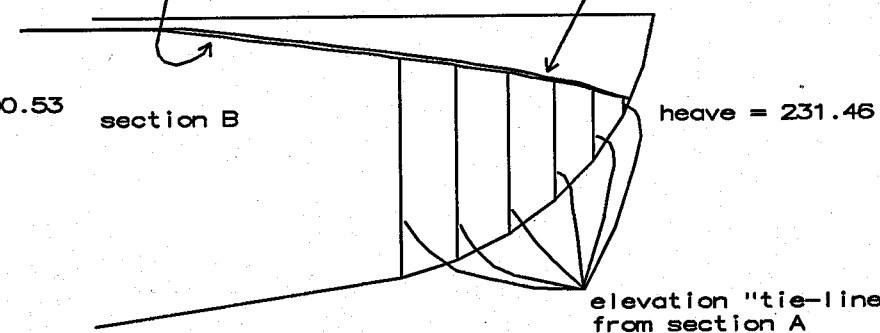


Vertical shear:

The elevation of the deformed horizon in the hangingwall can be modelled by an oblique slip fault, i.e., both sections A and B "balance" using vertical shear and a modified heave value.



deformed hw produced by 56.31 degree antithetic shear deformed hw produced by 60 degree antithetic shear



60 degrees antithetic shear:

The elevation of the deformed horizon in the hangingwall cannot be modelled by 60-degree shear on an oblique slip fault, in order to make section B "balance" it is necessary to use the projected ("apparent") value of 60 degrees as the shear angle (56.31) and a modified heave value.