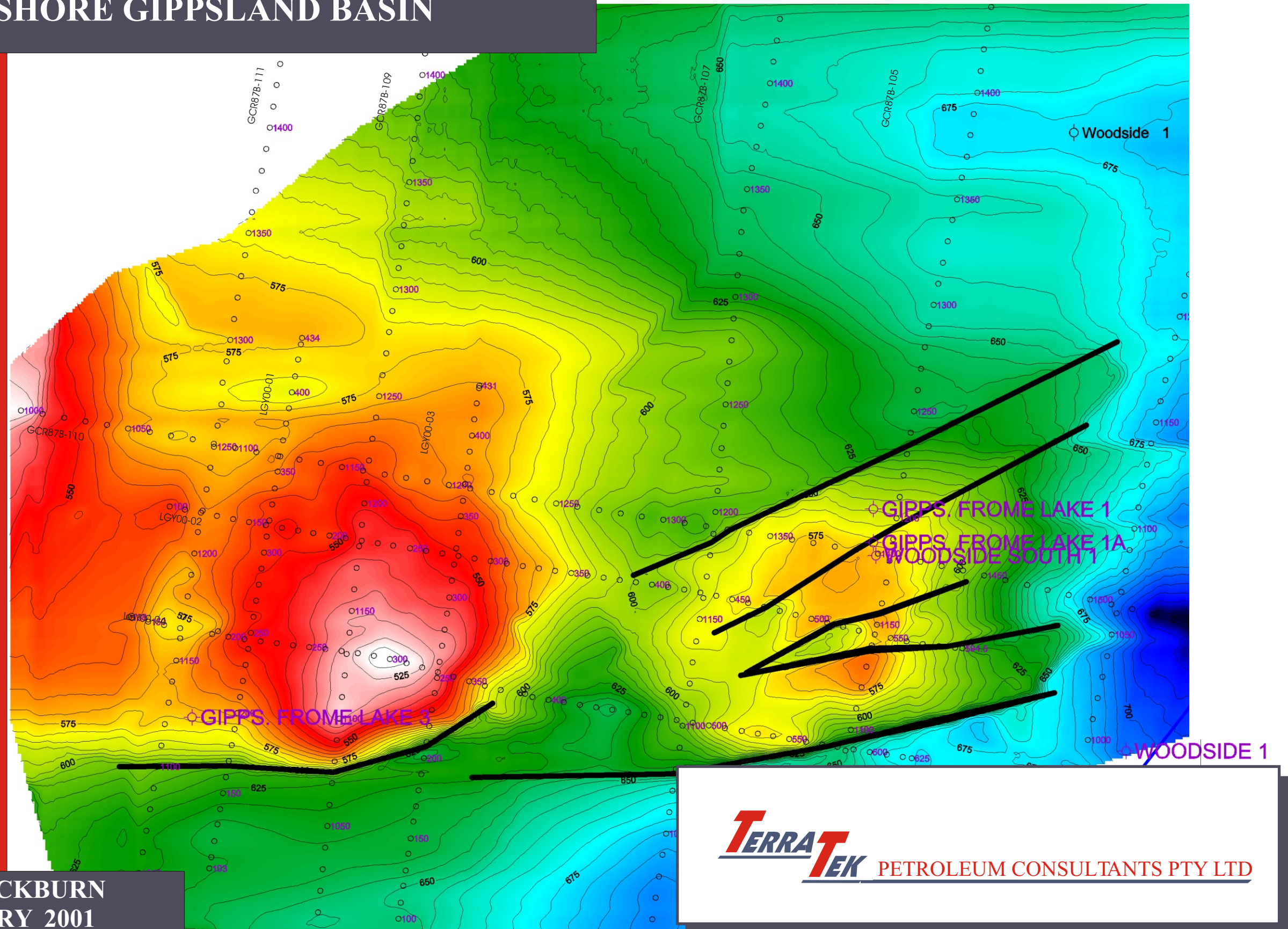


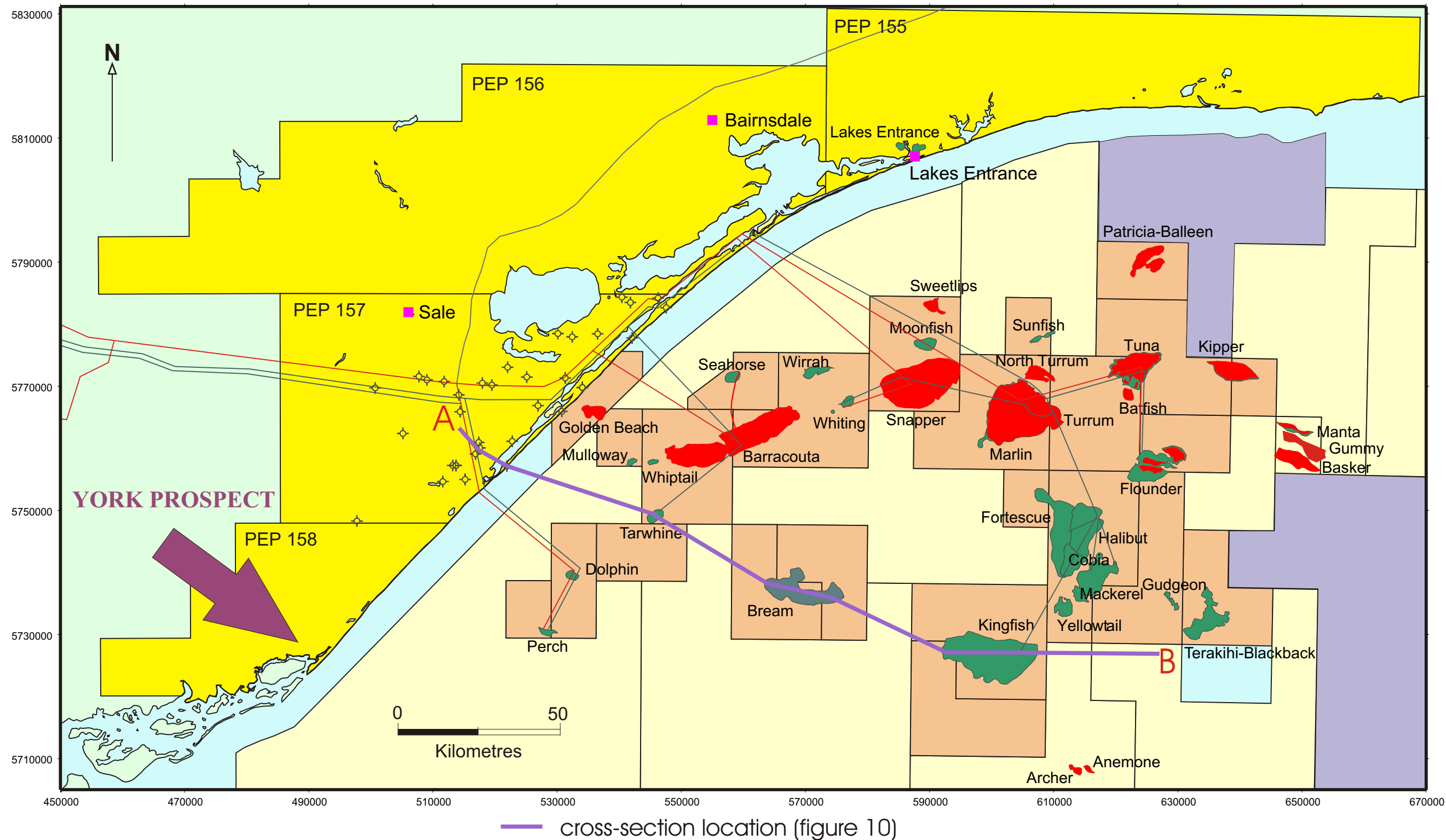
# YORK PROSPECT PEP 158 ONSHORE GIPPSLAND BASIN



G. J. BLACKBURN  
FEBRUARY 2001

**TERRATEK** PETROLEUM CONSULTANTS PTY LTD

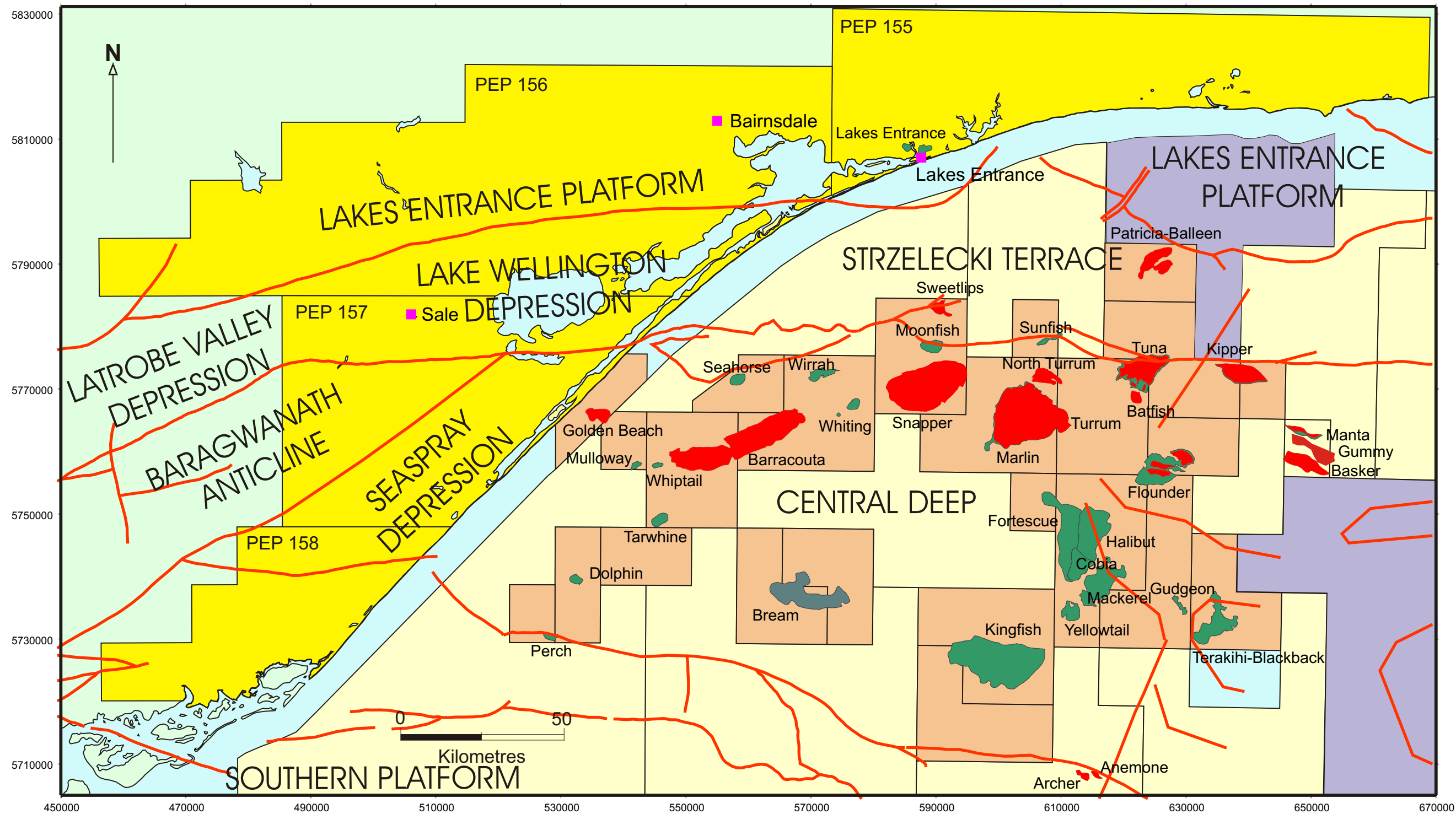




PERMITS MAP  
GIPPSLAND BASIN

Figure 1

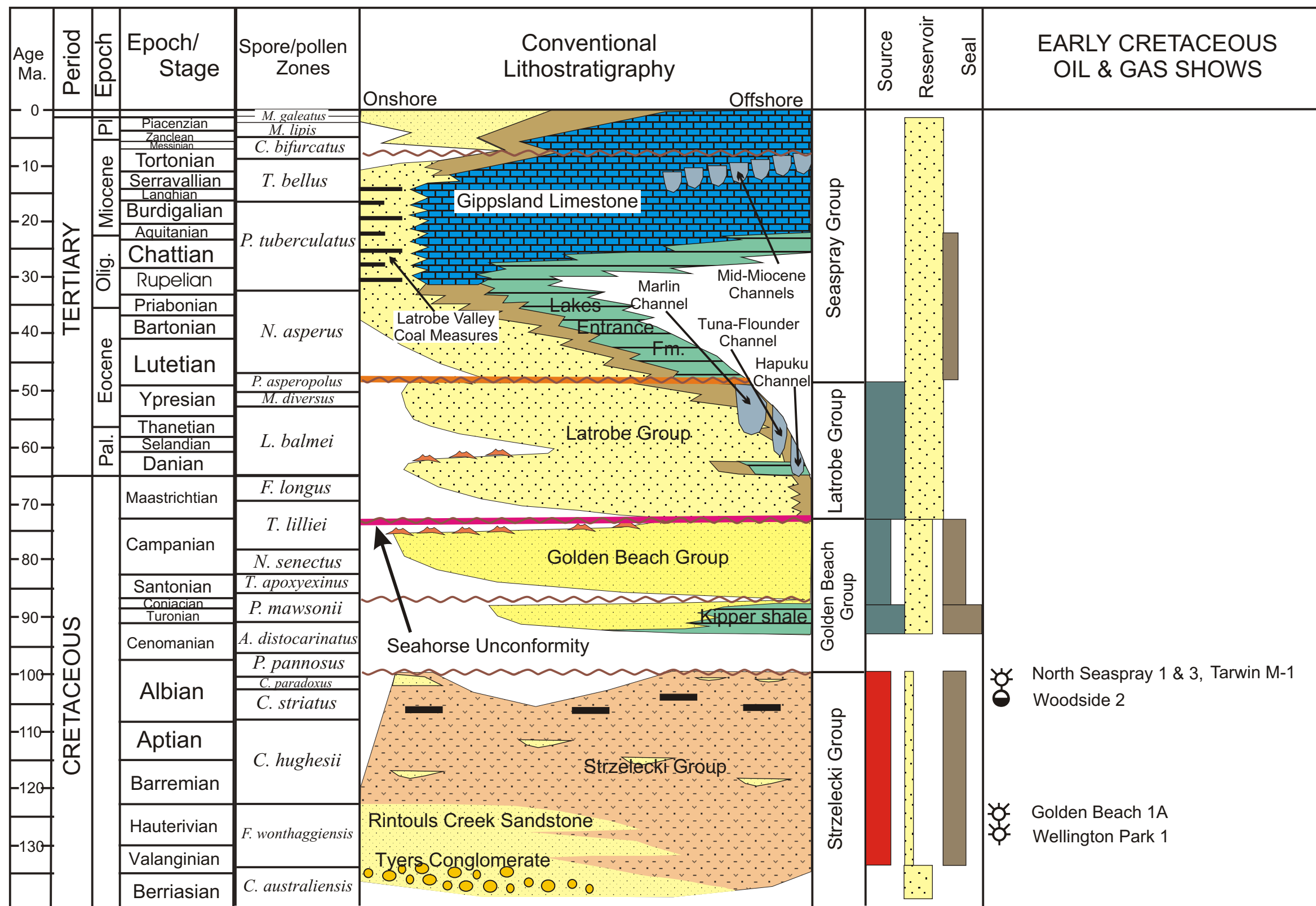




STRUCTURAL ELEMENTS MAP  
GIPPSLAND BASIN

Figure 2

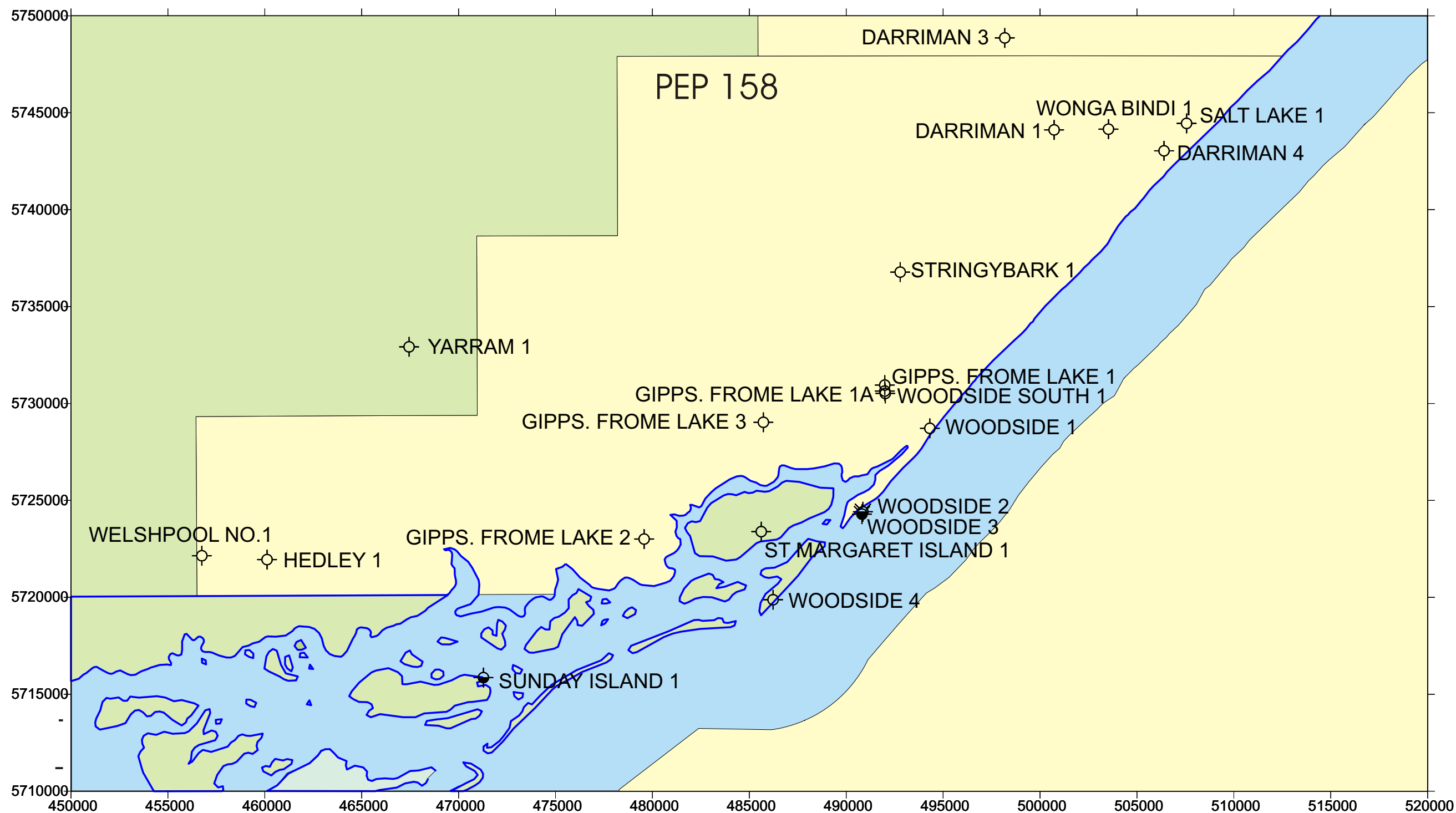




LITHOSTRATIGRAPHY  
GIPPSLAND BASIN

Figure 3

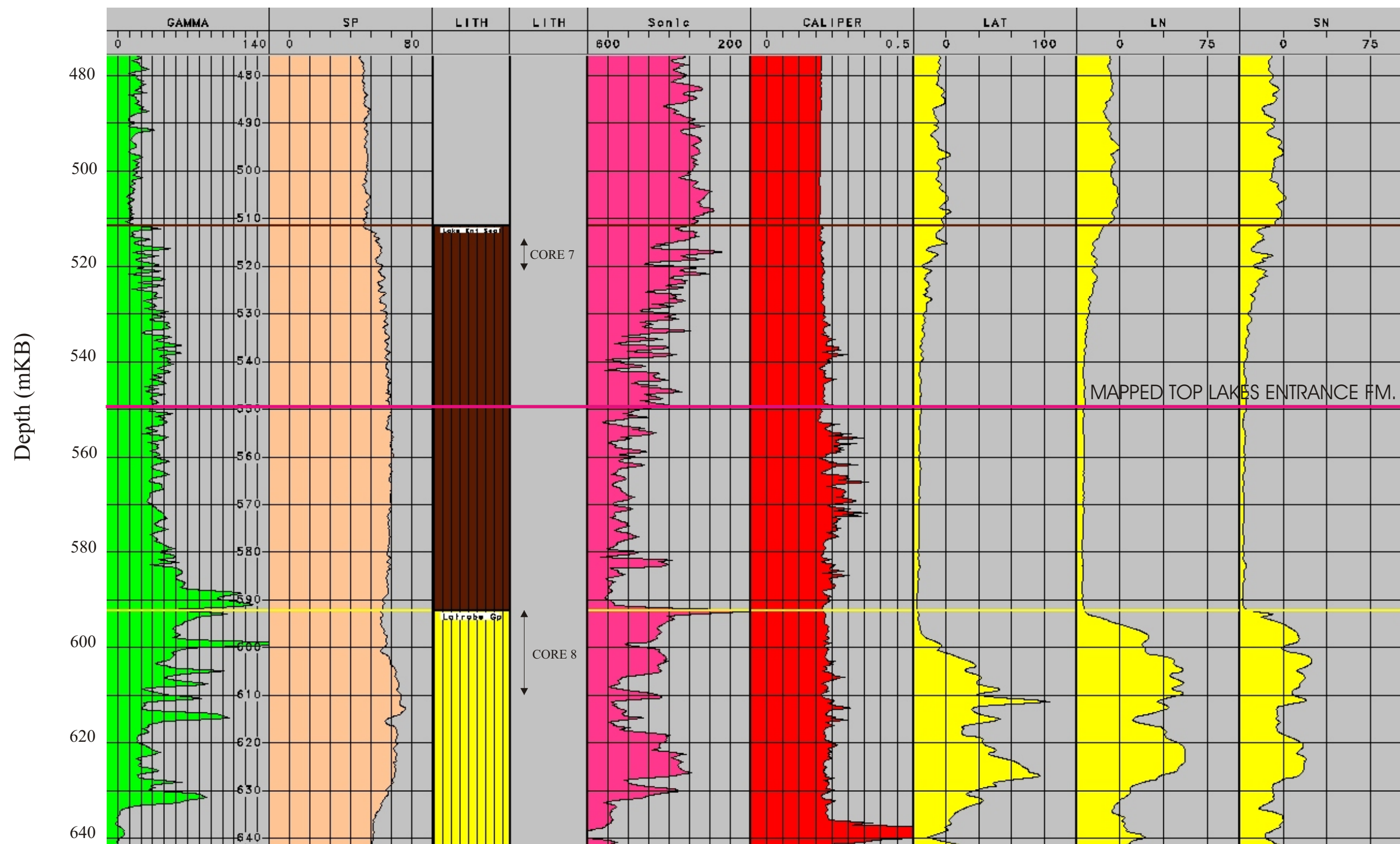




WELL LOCATION MAP  
PEP 138  
ONSHORE GIPPSLAND BASIN

Figure 4

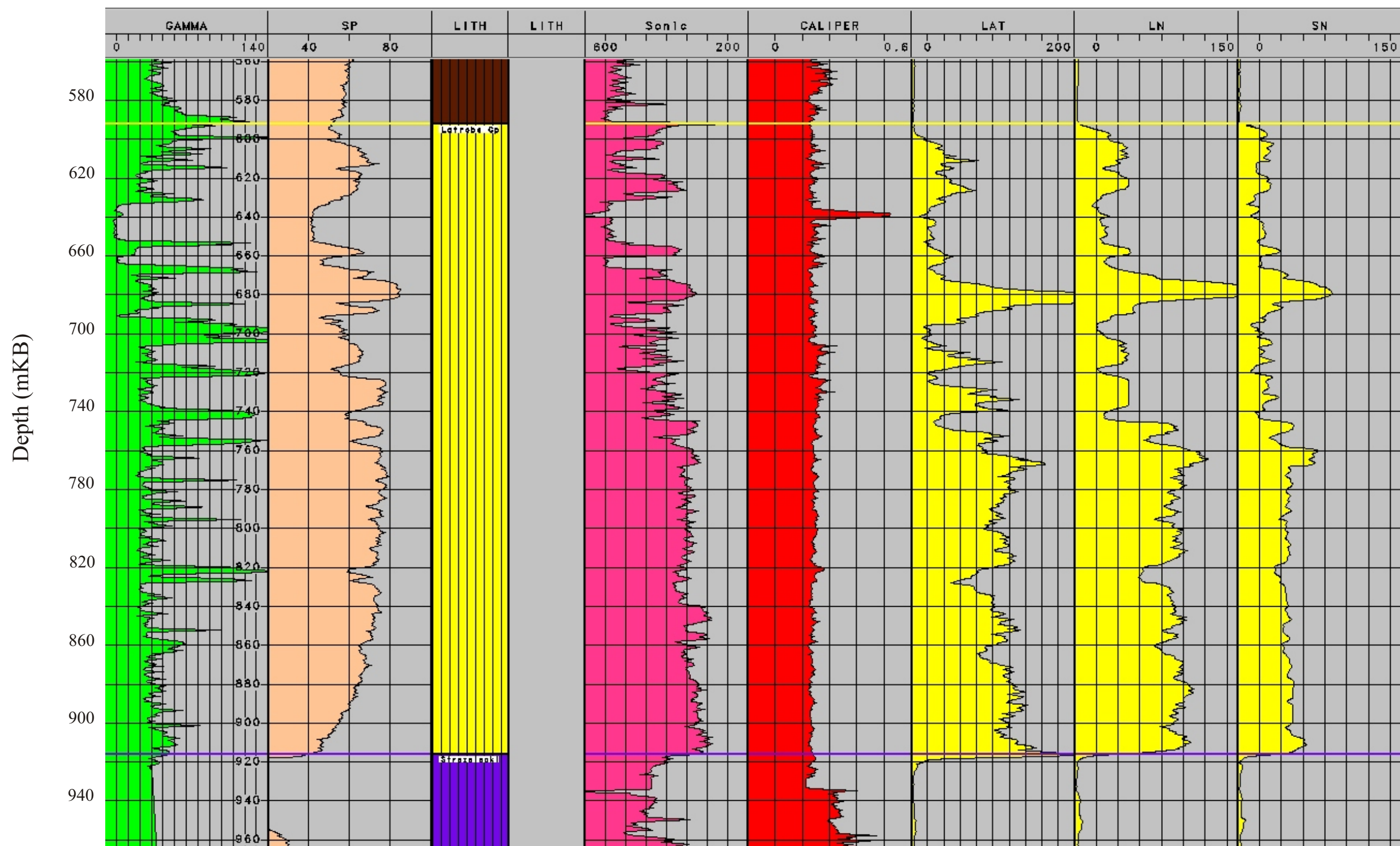




LAKES ENTRANCE FORMATION  
WOODSIDE SOUTH 1

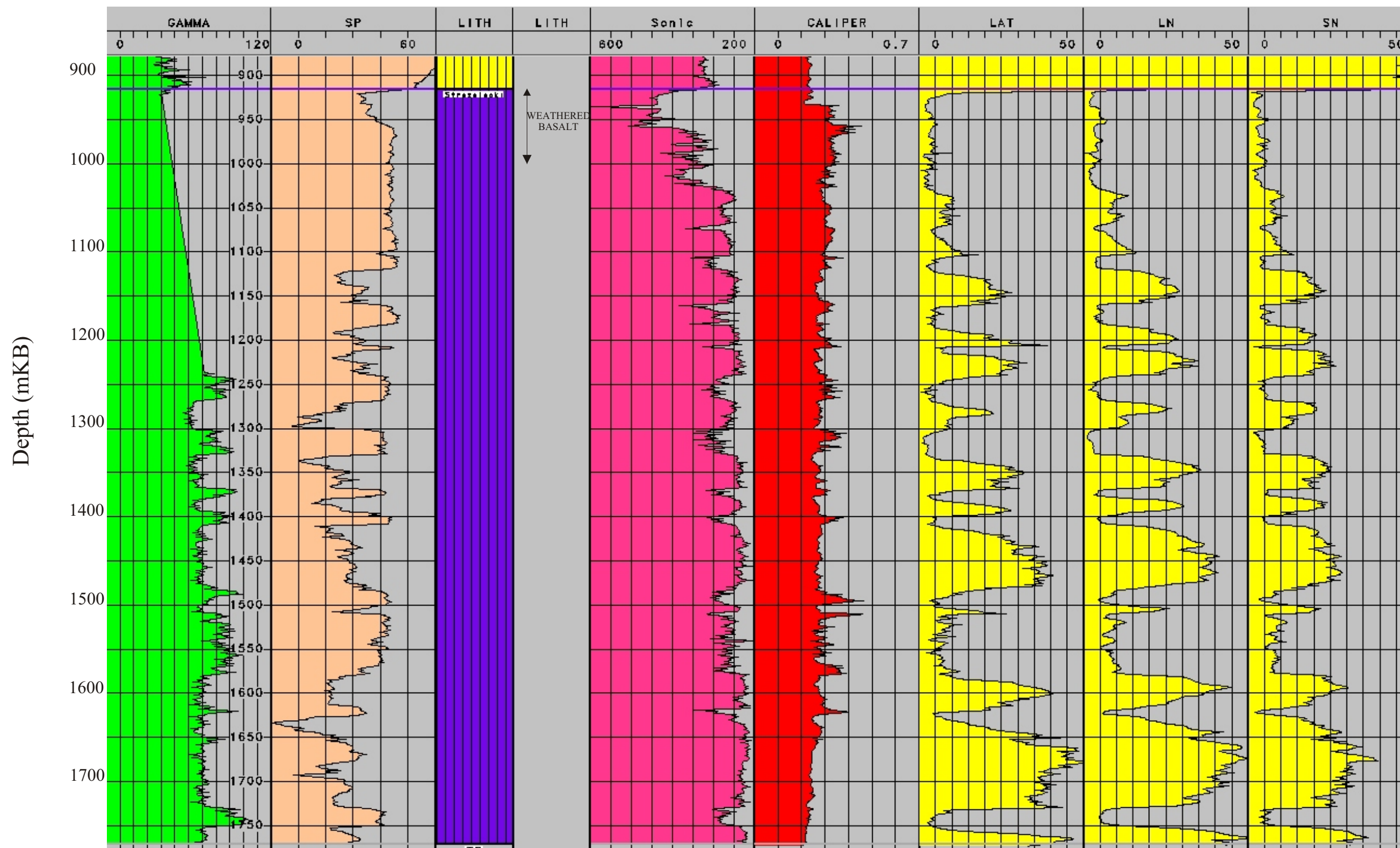
Figure 5





LATROBE GROUP  
WOODSIDE SOUTH 1

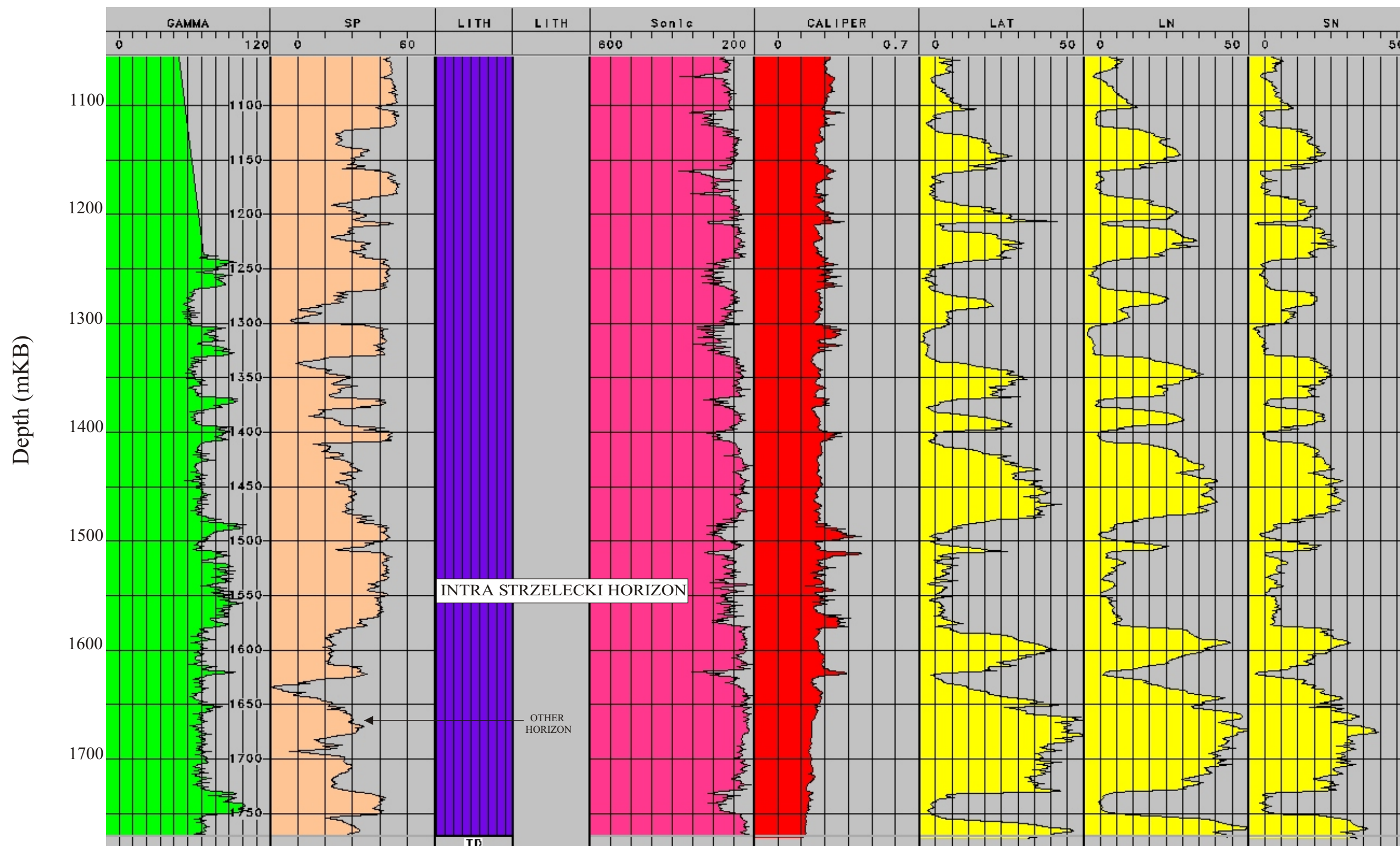
Figure 6



STRZELECKI GROUP  
WOODSIDE SOUTH 1

Figure 7

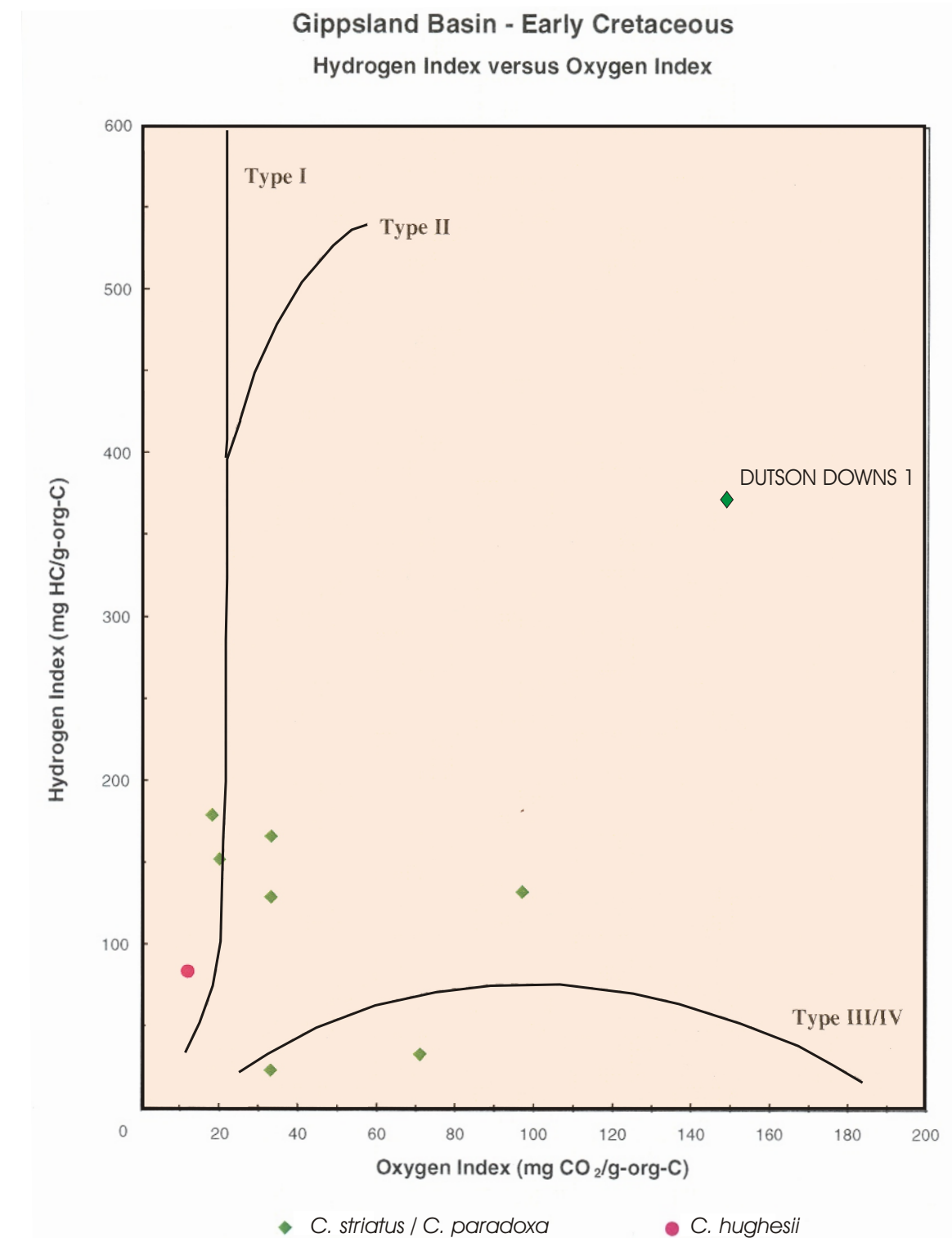
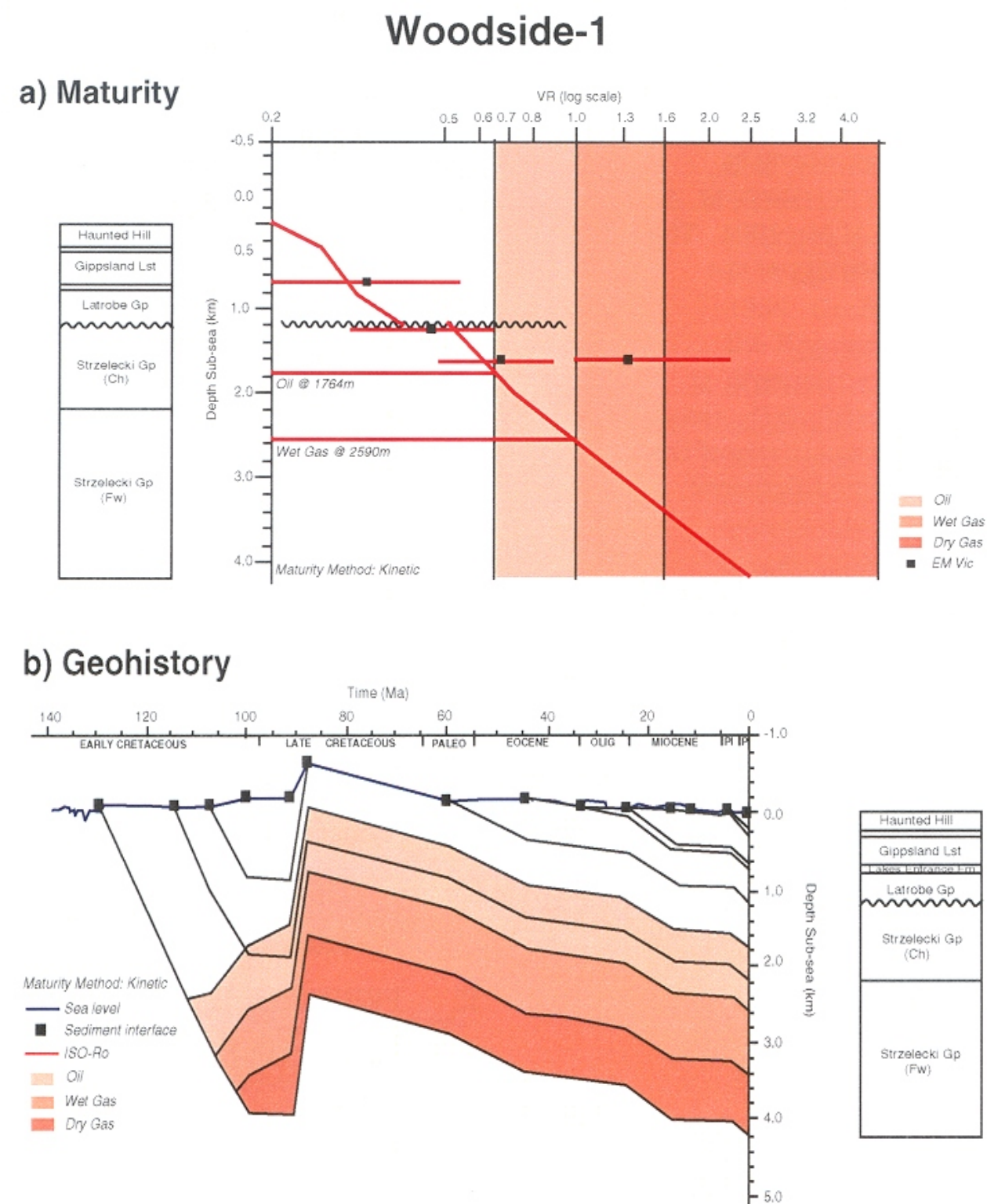




LOWER STRZELECKI GROUP  
WOODSIDE SOUTH 1

Figure 8

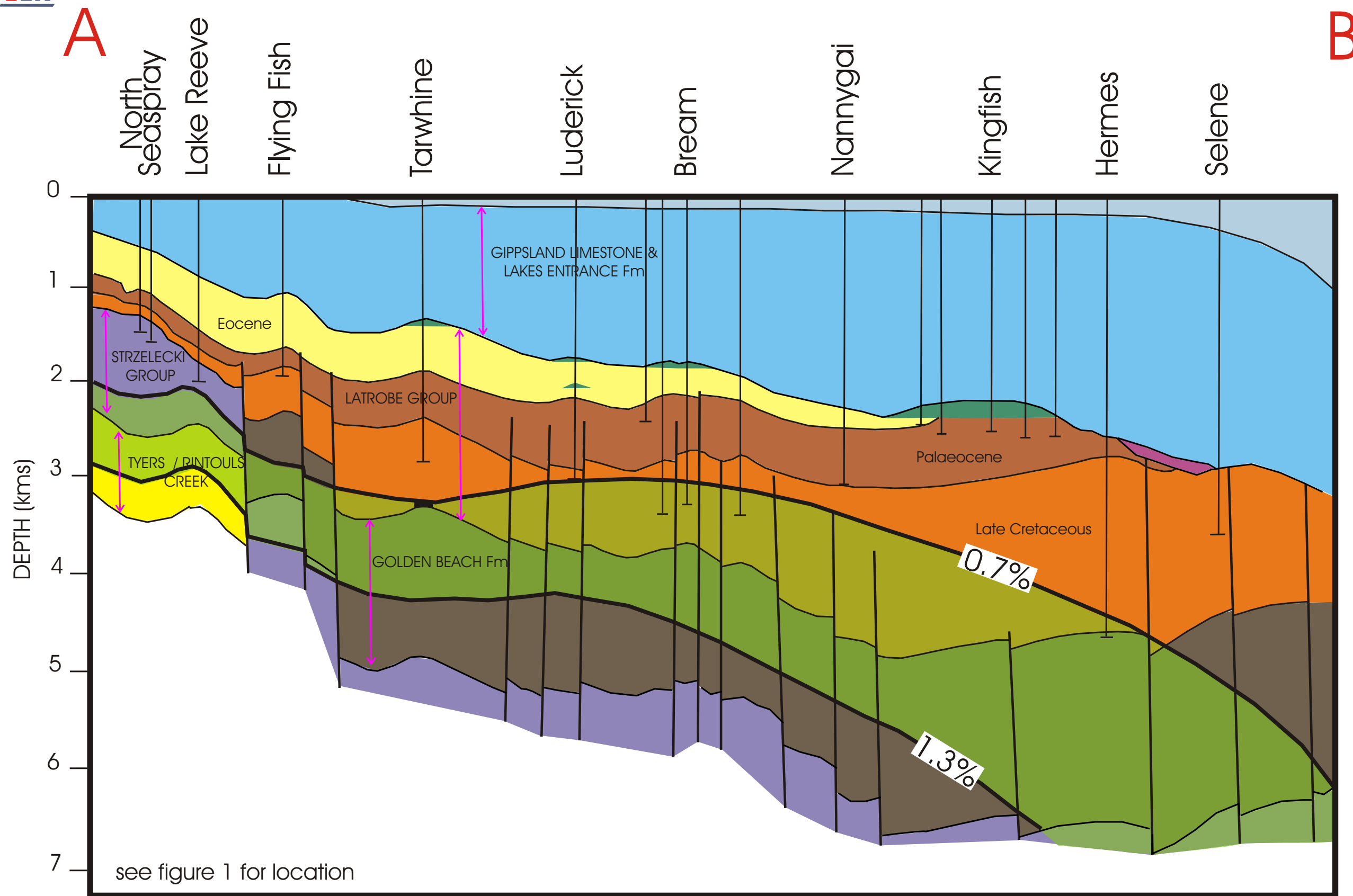




After Mehin & Bock (1998)

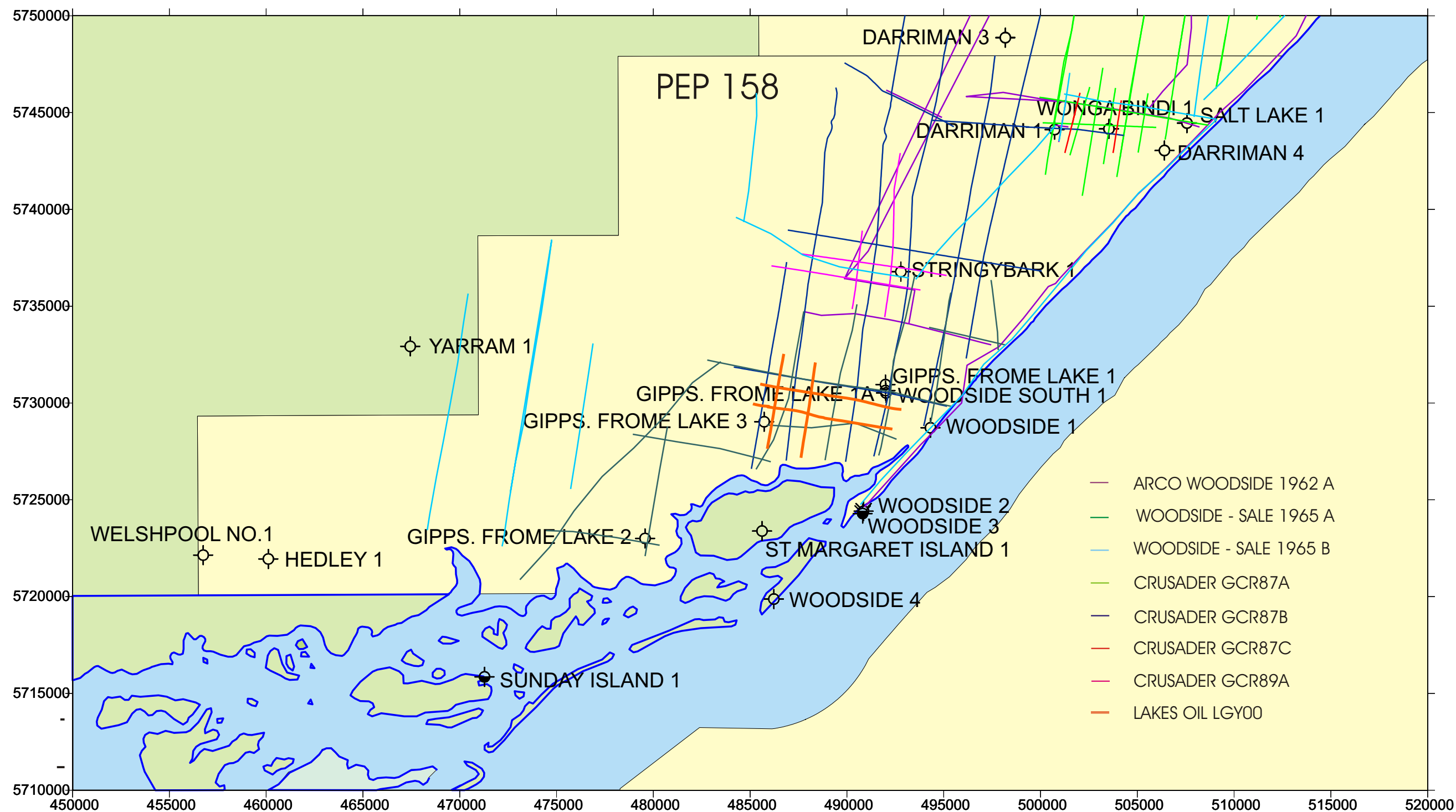


**MATURITY PLOT , GEOHISTORY &  
HYDROGEN INDEX - WOODSIDE 1  
ONSHORE GIPPSLAND BASIN**



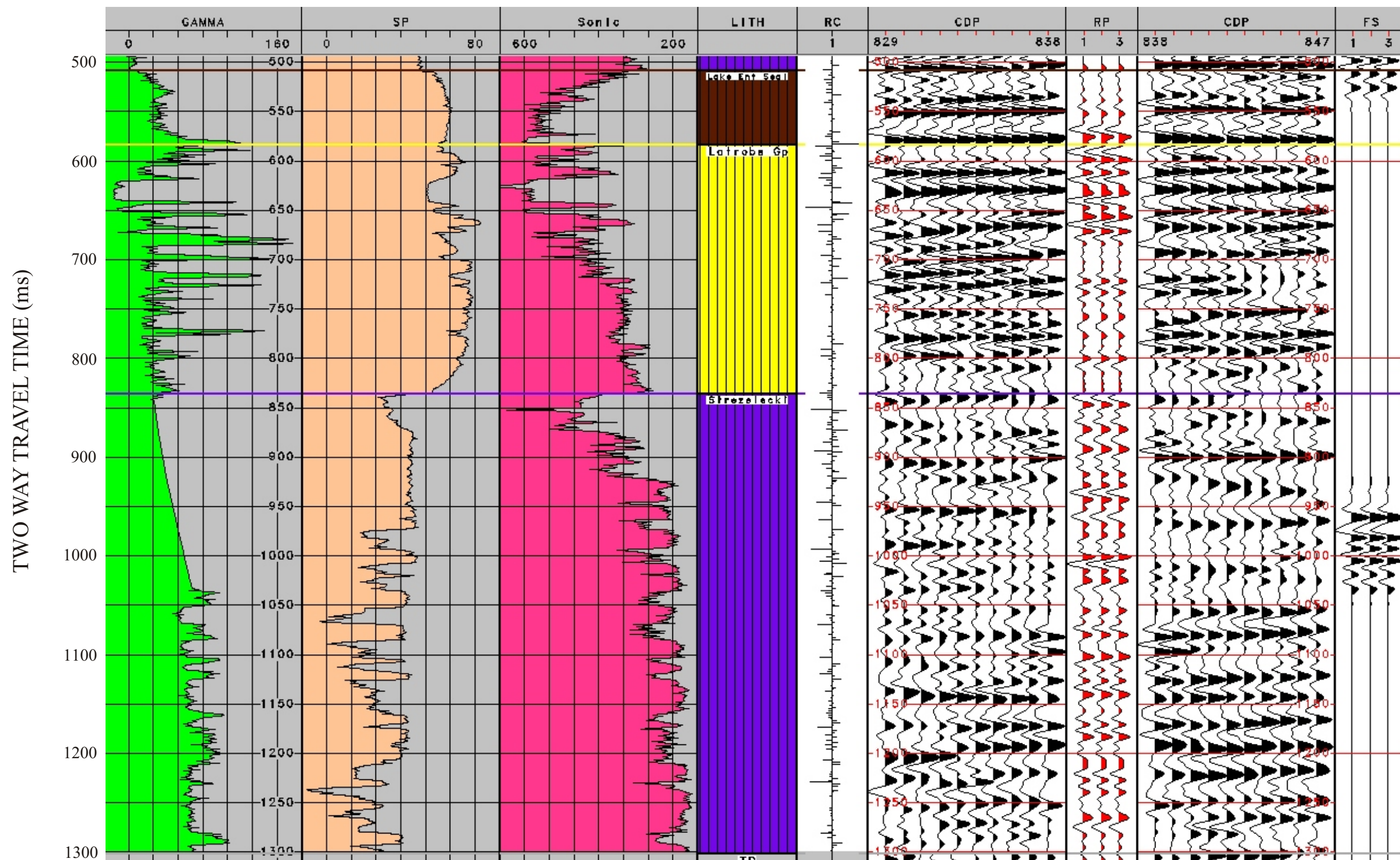
REGIONAL CROSS-SECTION  
GIPPSLAND BASIN  
SHOWING ESTIMATED OIL WINDOW

Figure 10



SEISMIC COVERAGE AND WELL LOCATION MAP  
PEP 158  
ONSHORE GIPPSLAND BASIN

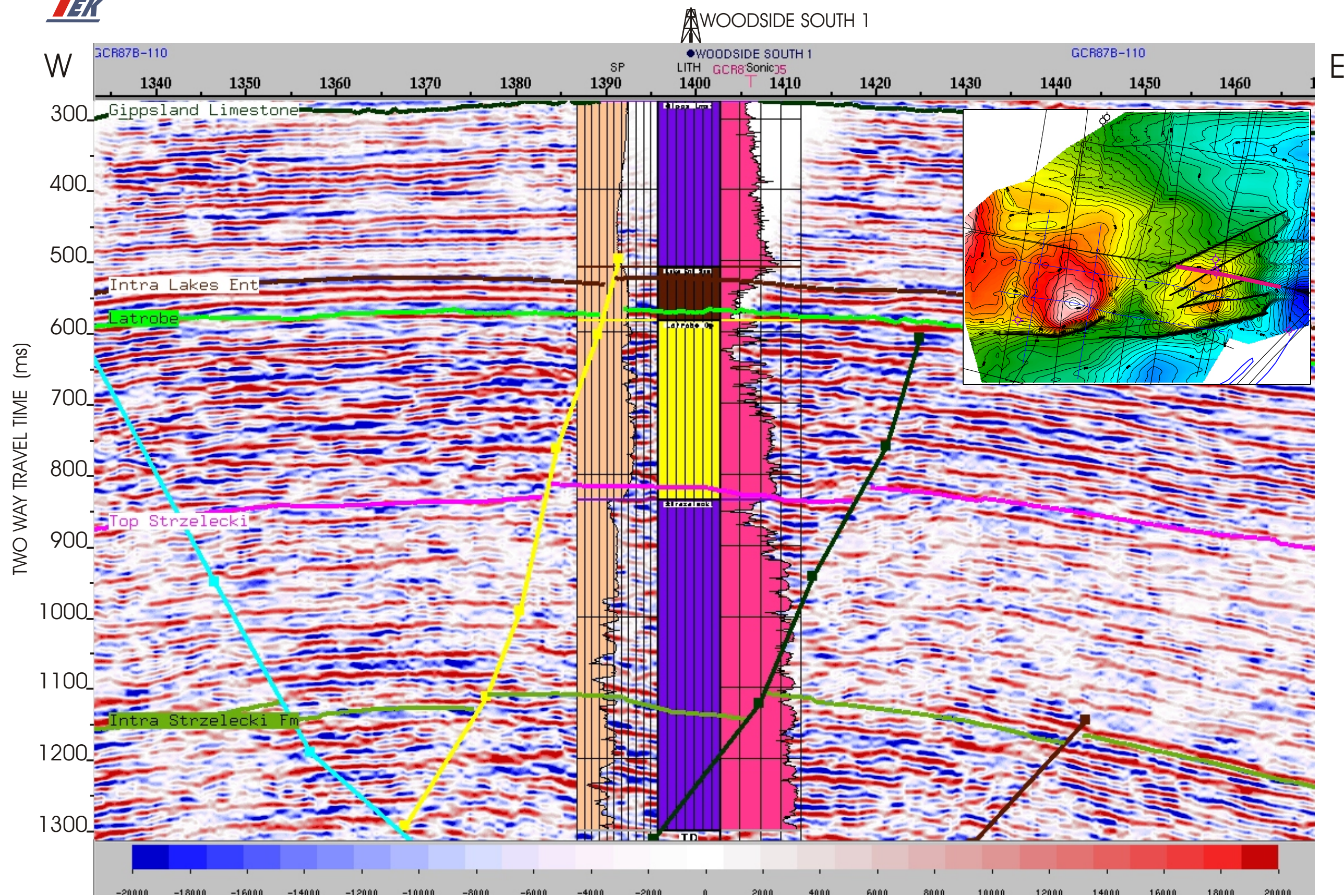




SYNTHETIC SEISMOGRAM  
WOODSIDE SOUTH 1

Figure 12

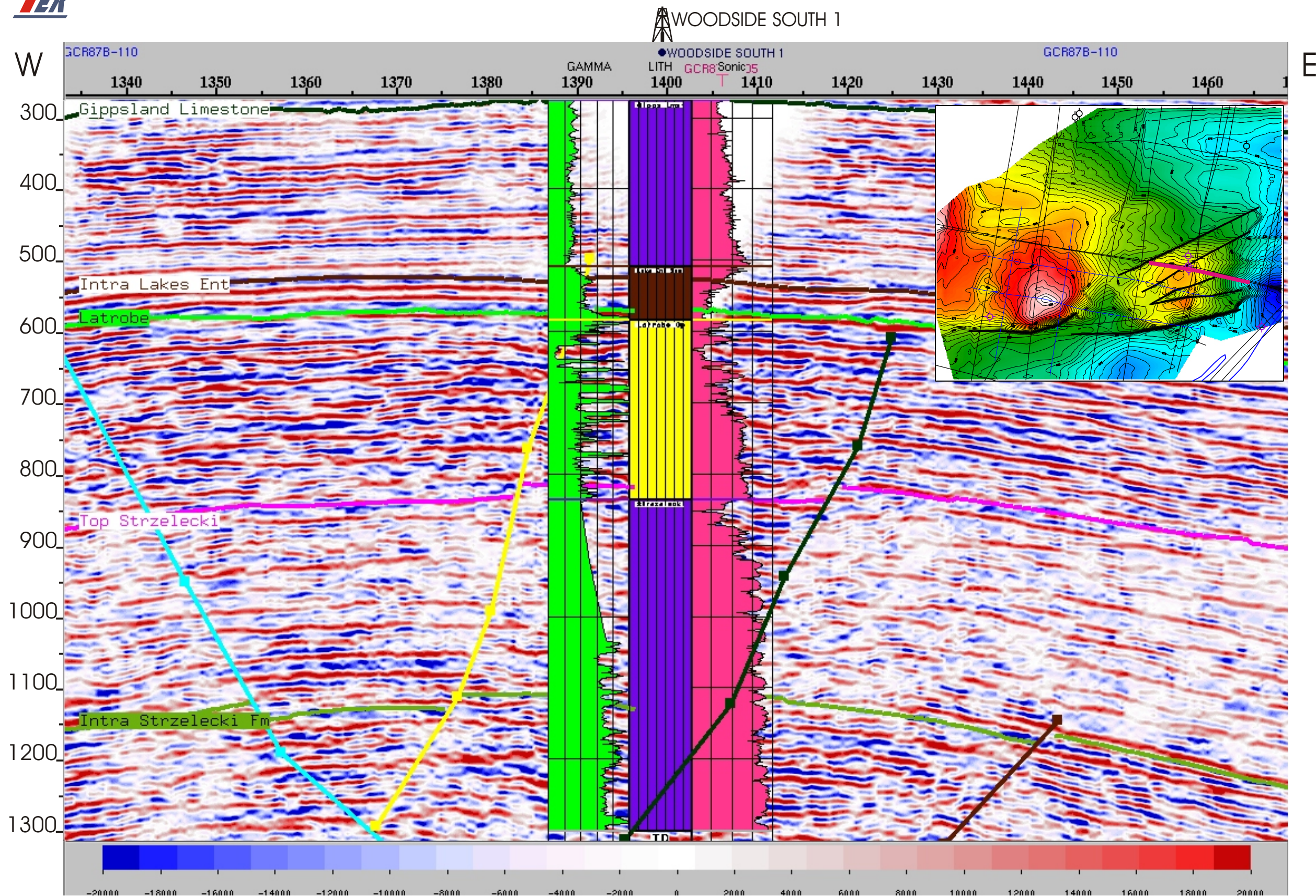




SEISMIC LINE GCR87B-110  
TIEING WOODSIDE SOUTH 1  
(SP & SONIC LOGS)

Figure 13

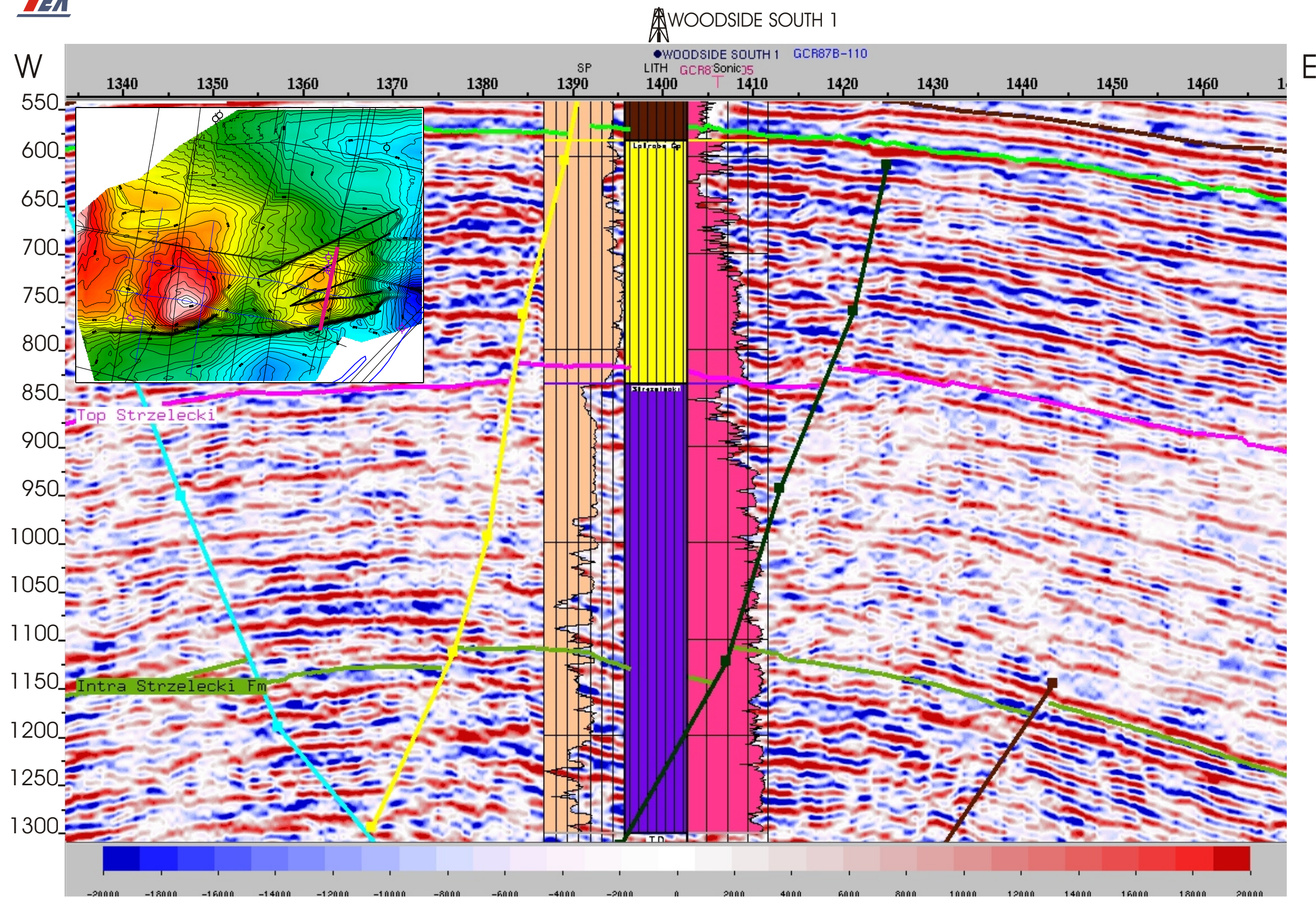




SEISMIC LINE GCR87B-110  
TIEING WOODSIDE SOUTH 1  
(GAMMA RAY & SONIC LOGS)

Figure 14

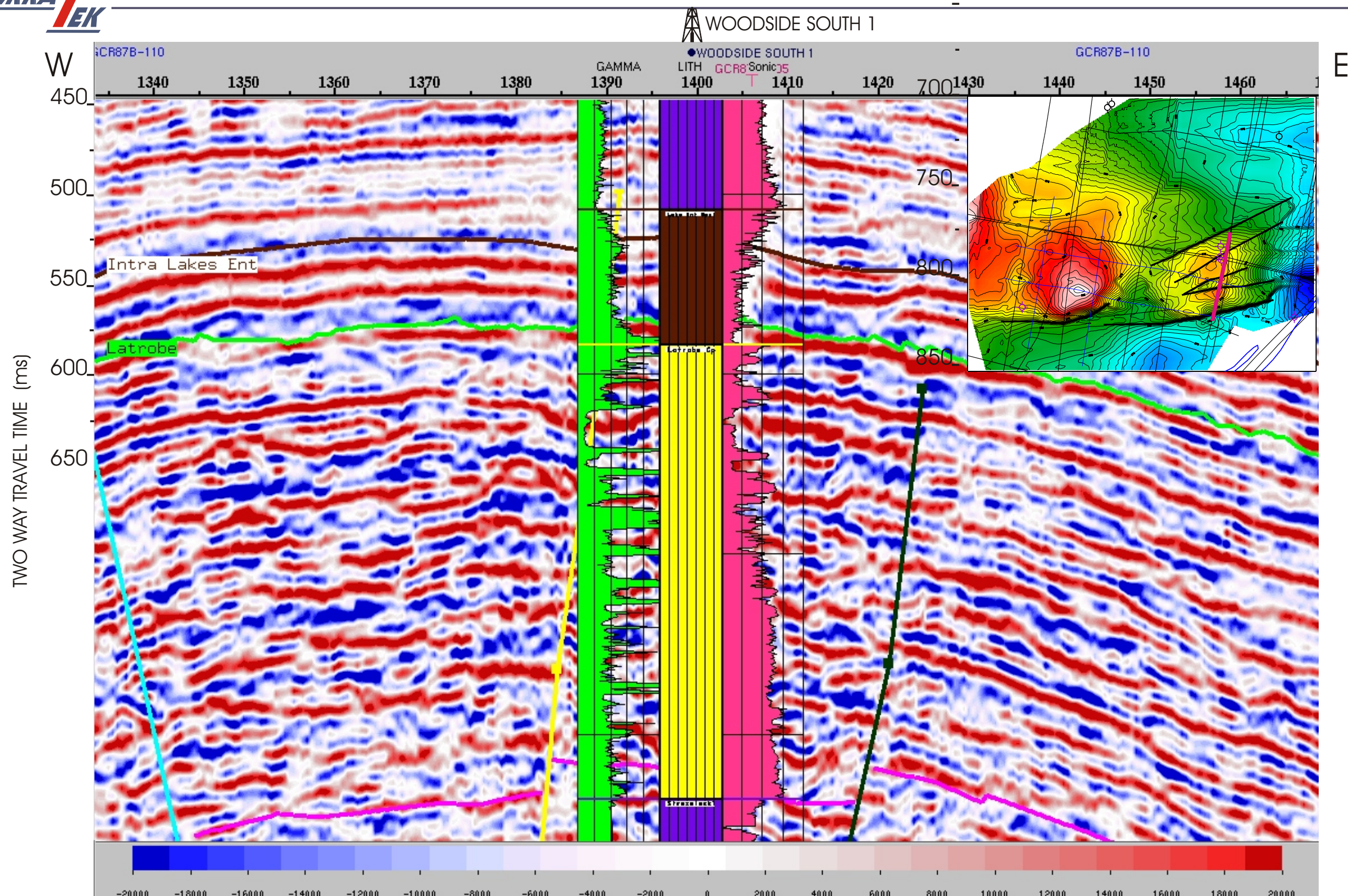




SEISMIC LINE GCR87B-105  
TIEING WOODSIDE SOUTH 1  
(SP & SONIC LOGS)

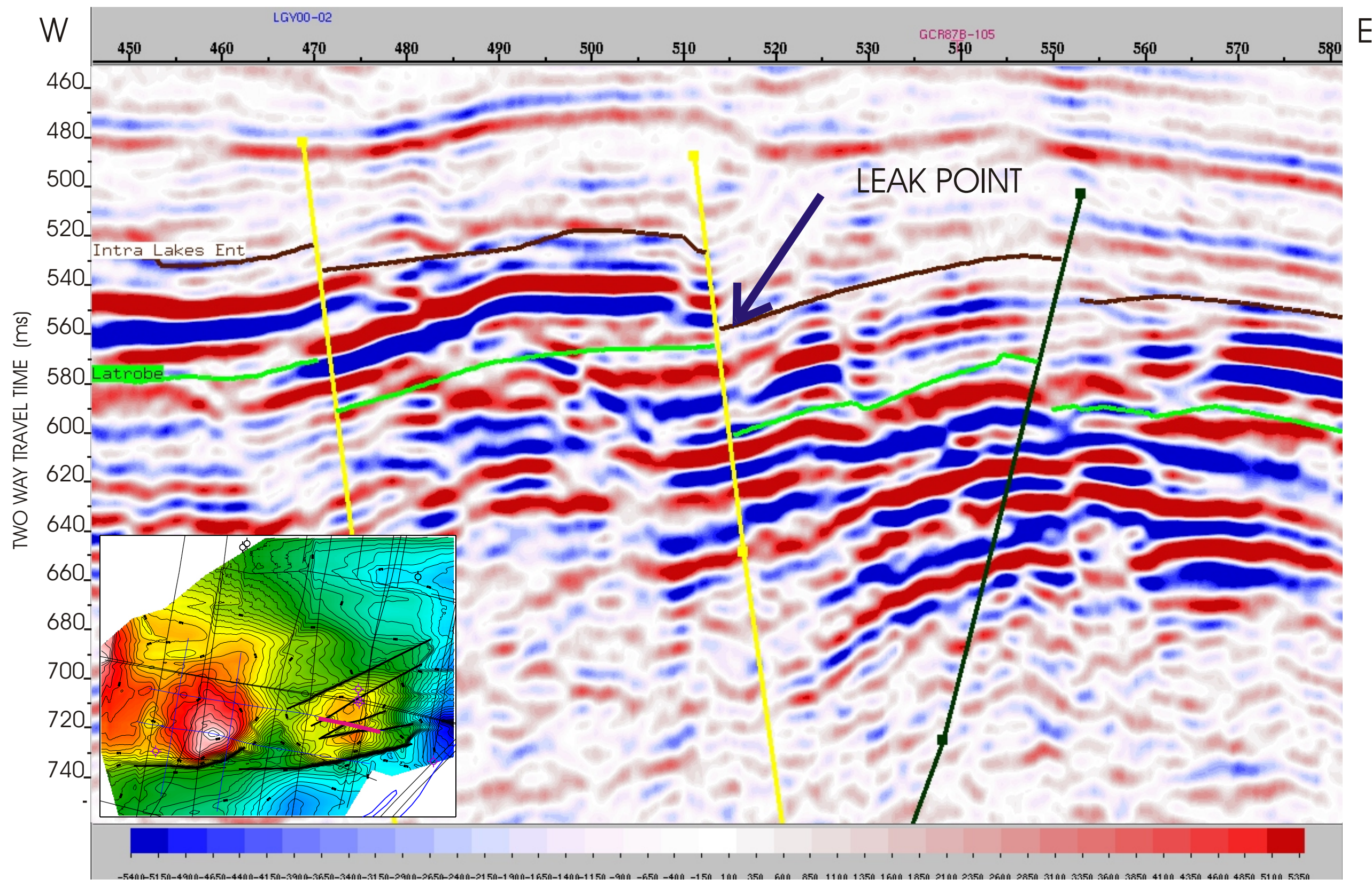
Figure 15





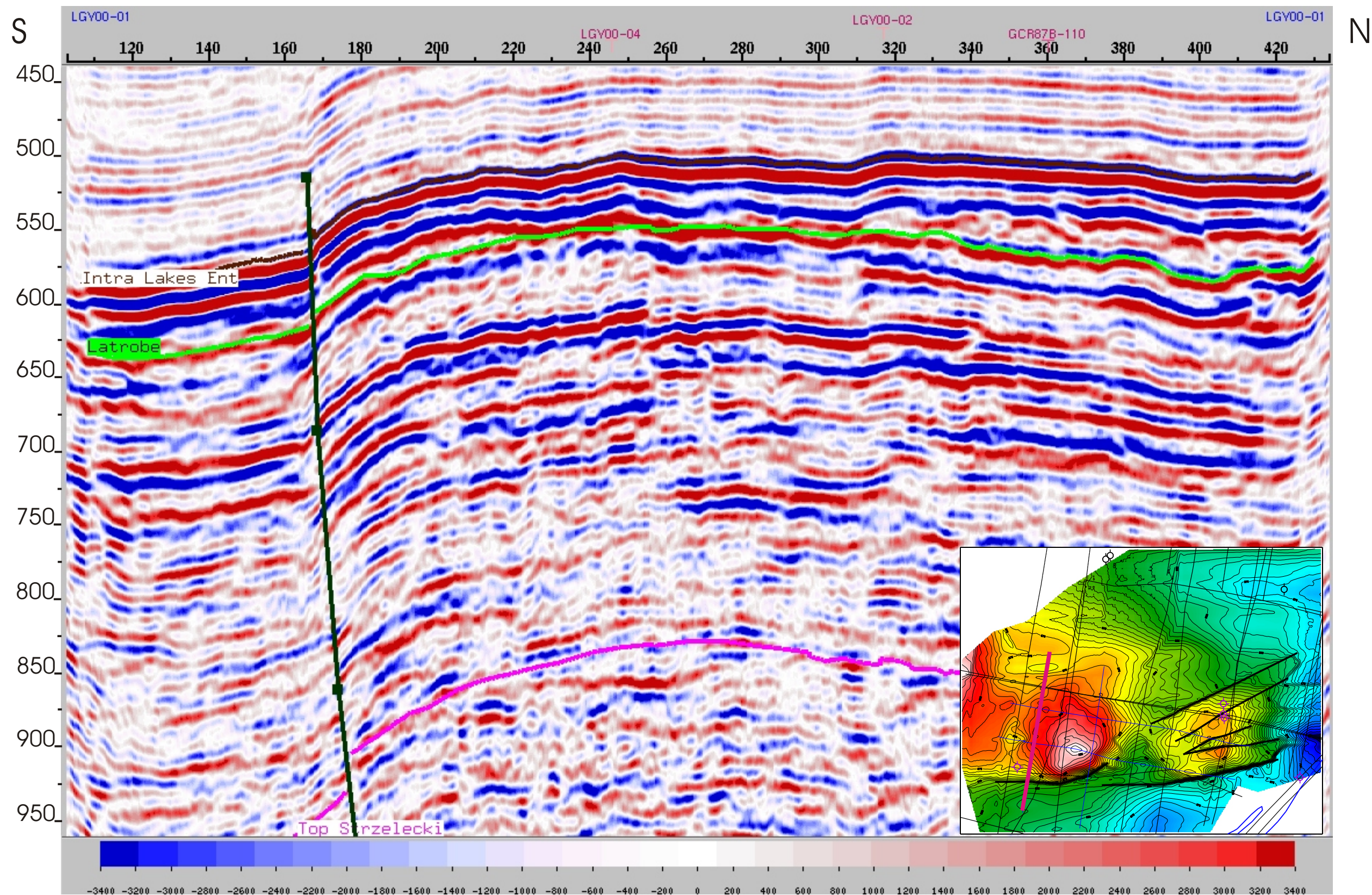
SEISMIC LINE GCR87B-105  
TIEING WOODSIDE SOUTH 1  
(GAMMA RAY & SONIC LOGS)





SEISMIC LINE LGY00-02  
WOODSIDE SOUTH STRUCTURE  
SHOWING POSSIBLE LEAKAGE POINT FOR THE TOP OF LATROBE GROUP

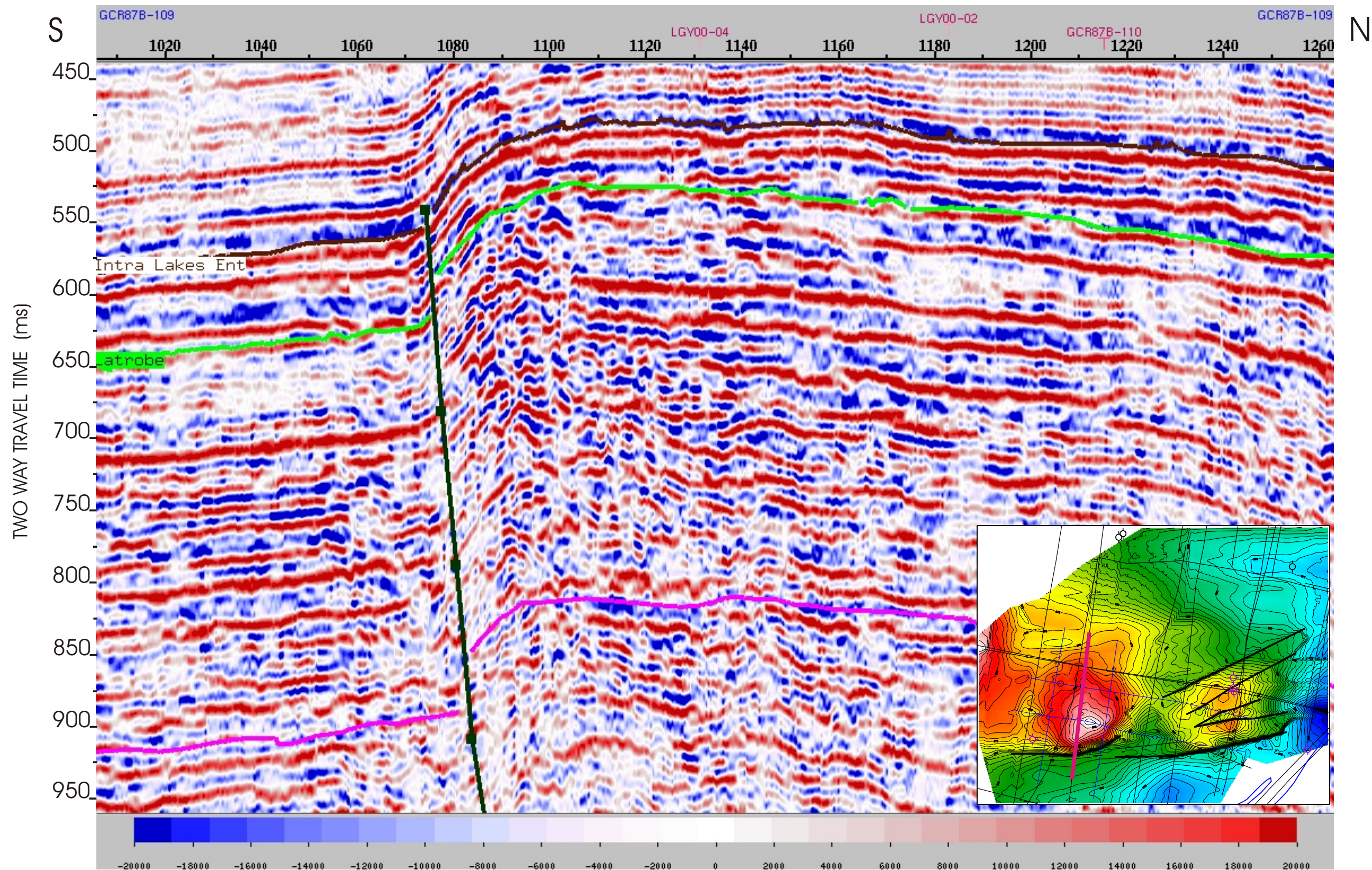




SEISMIC LINE LGY00-02  
YORK PROSPECT

Figure 18

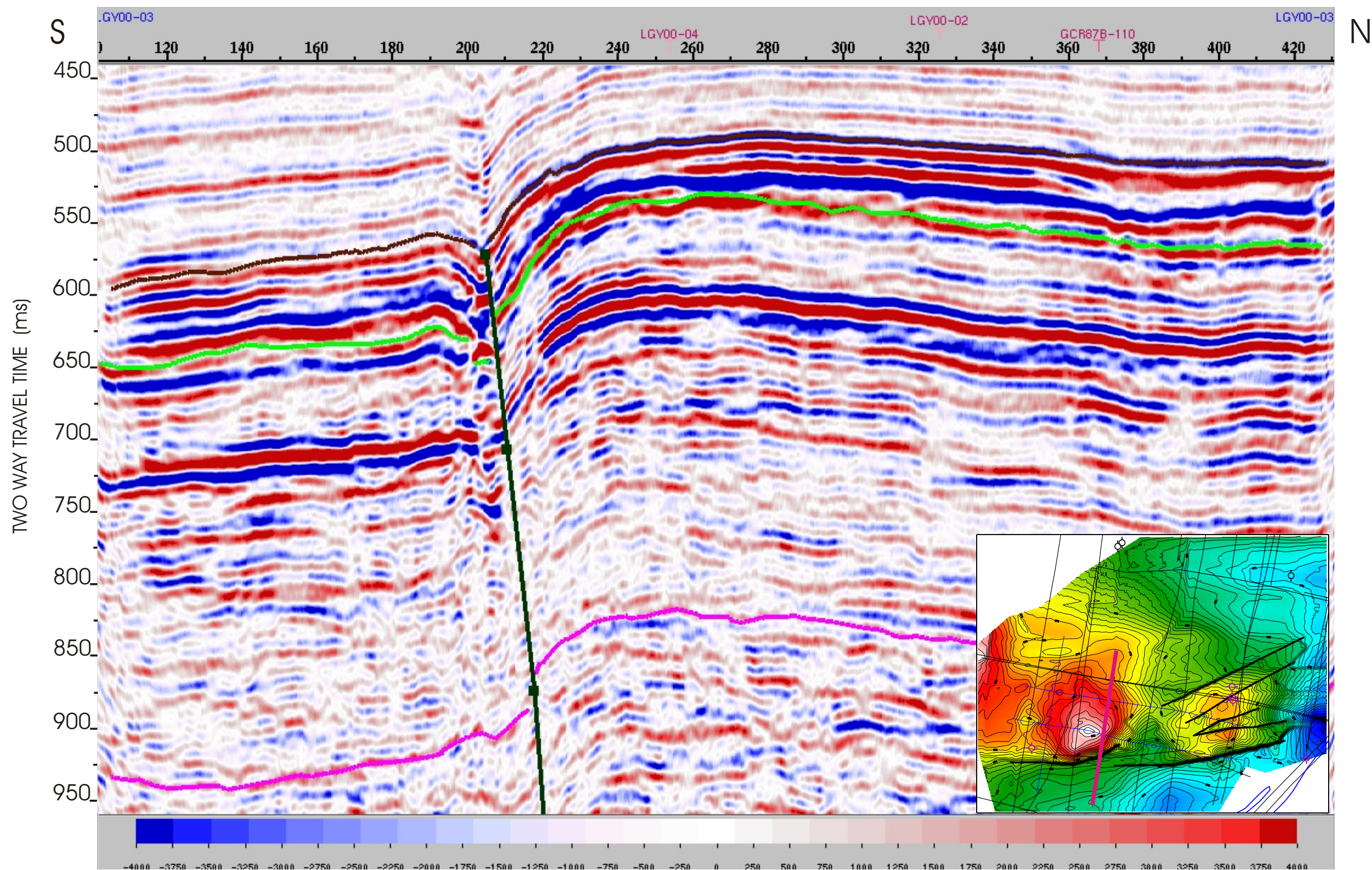




SEISMIC LINE GCR87B-109  
YORK PROSPECT

Figure 19

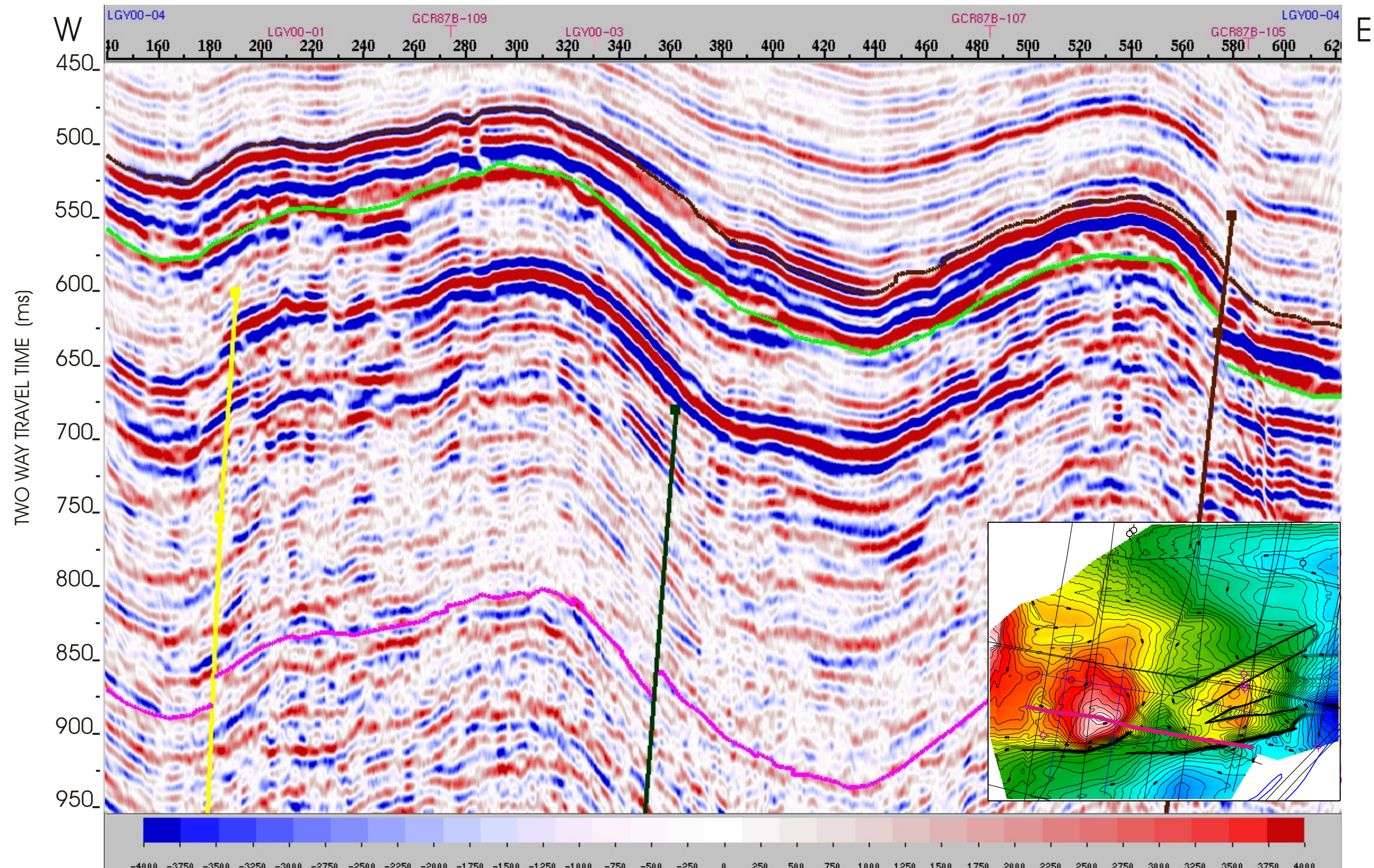




SEISMIC LINE LGY00-03  
YORK PROSPECT

Figure 20

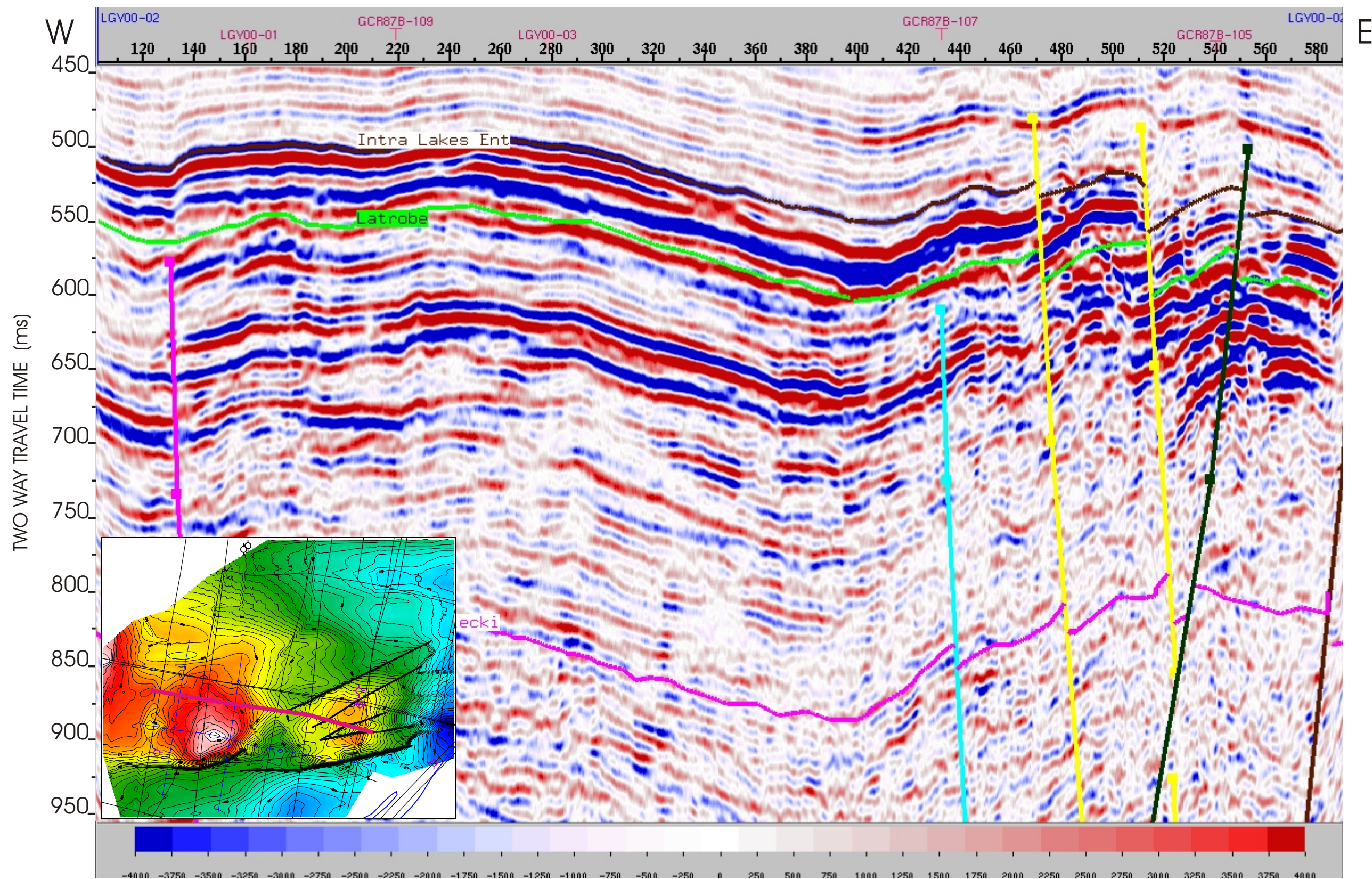




SEISMIC LINE LGY00-04  
YORK PROSPECT

Figure 21

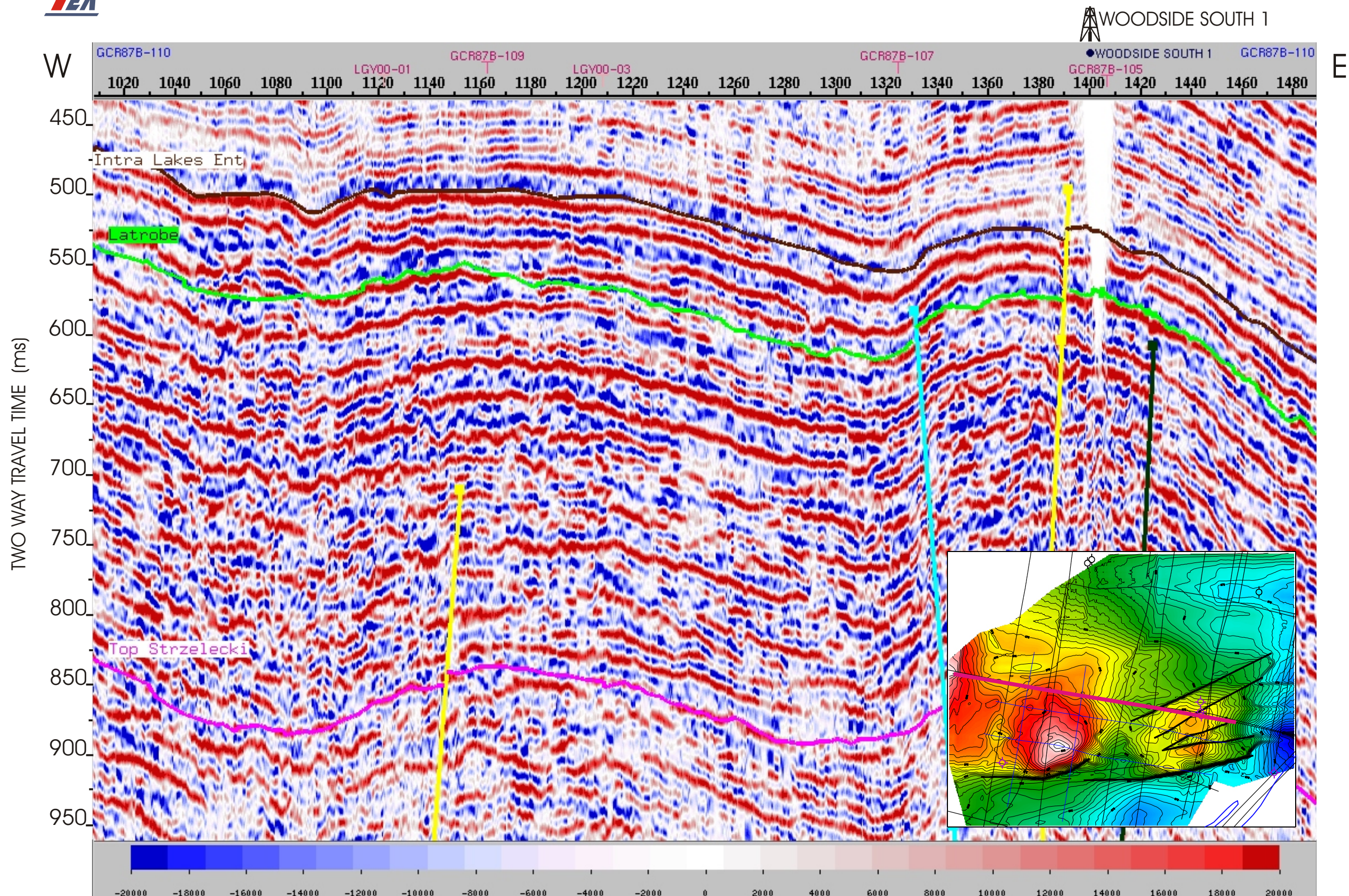




SEISMIC LINE LGY00-02  
YORK PROSPECT

Figure 22

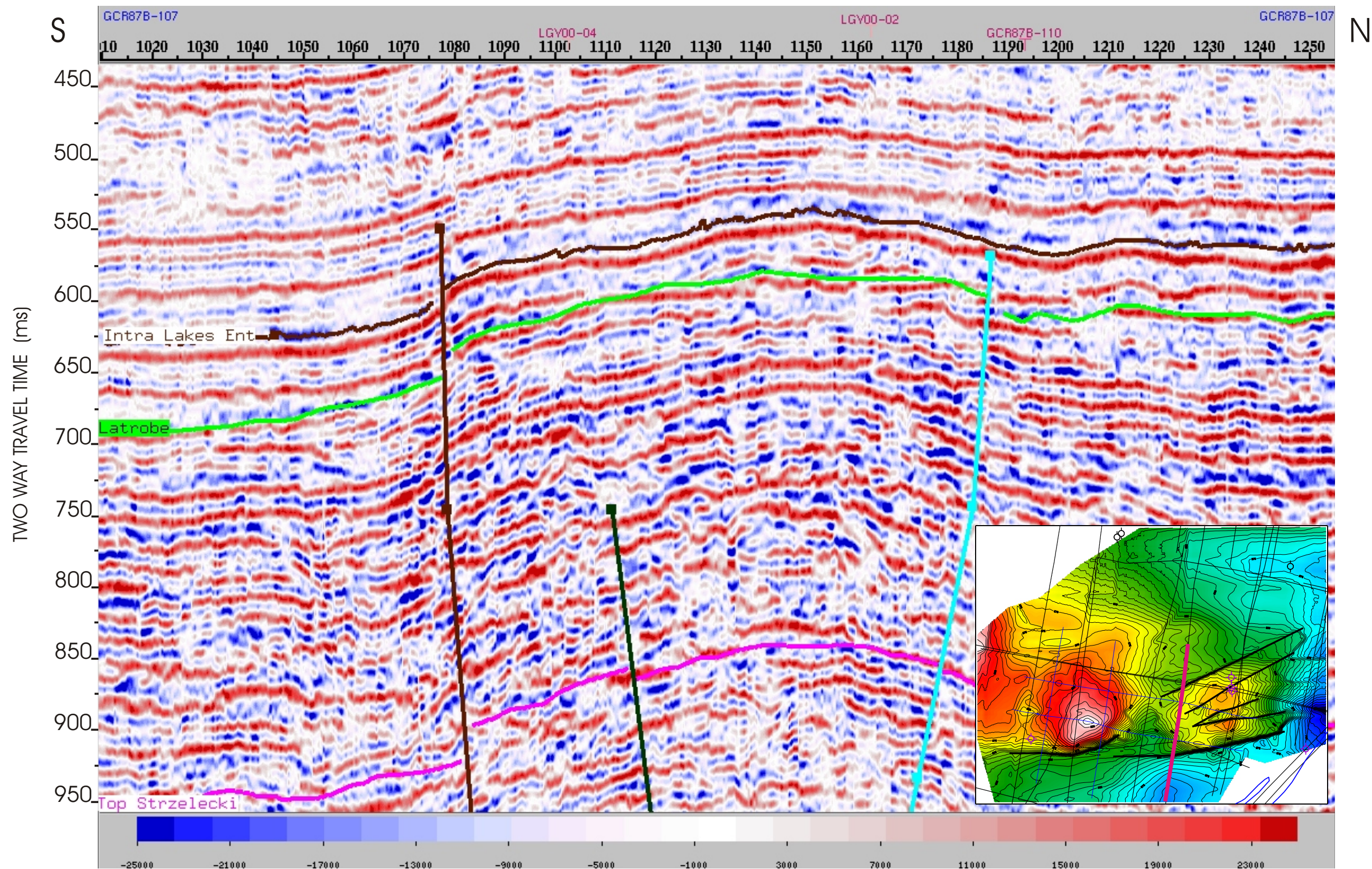




SEISMIC LINE GCR87B-110  
YORK PROSPECT

Figure 23

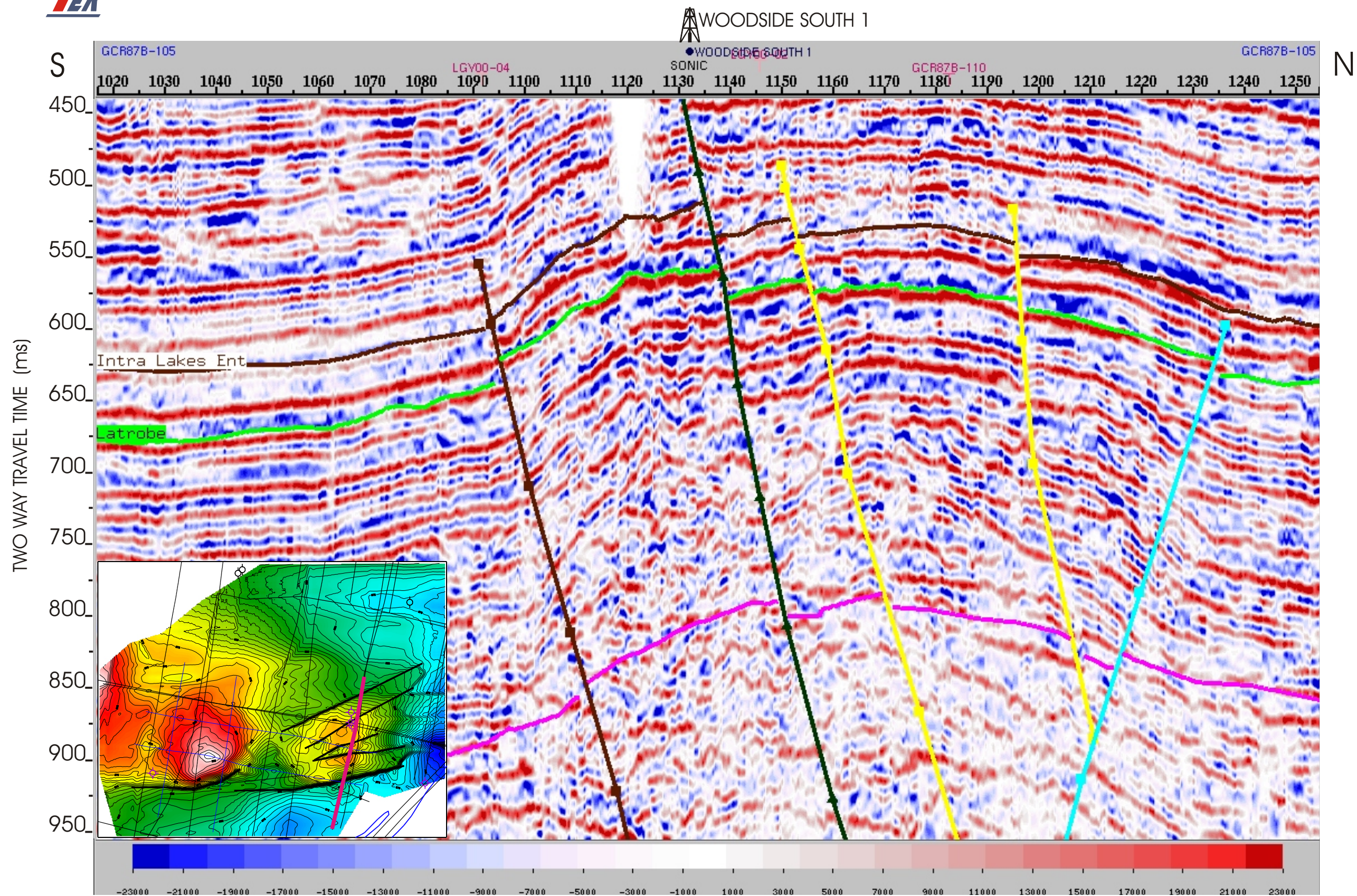




SEISMIC LINE GCR87B-107  
WOODSIDE SOUTH STRUCTURE

Figure 24

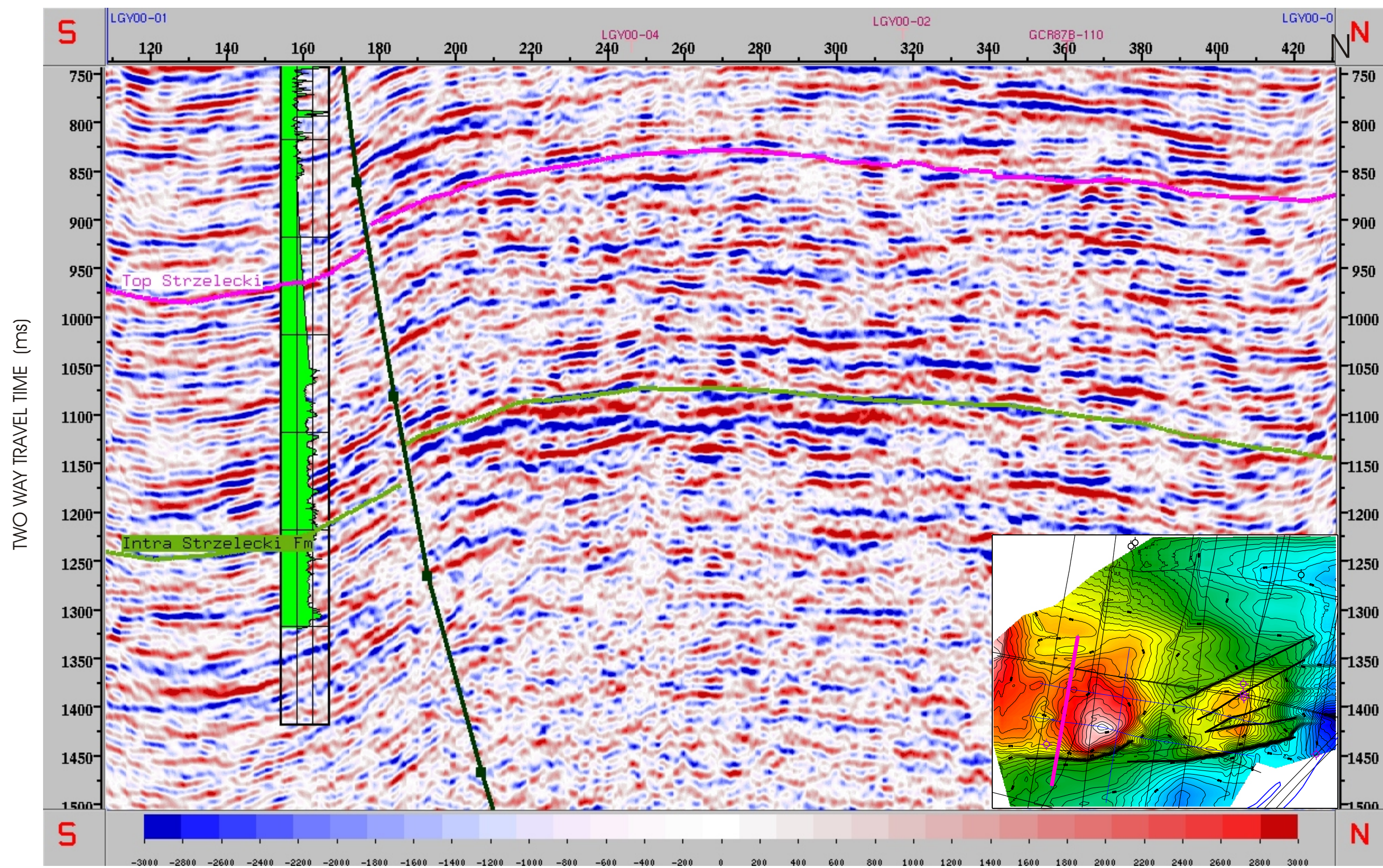




SEISMIC LINE GCR87B-105  
WOODSIDE SOUTH STRUCTURE

Figure 25

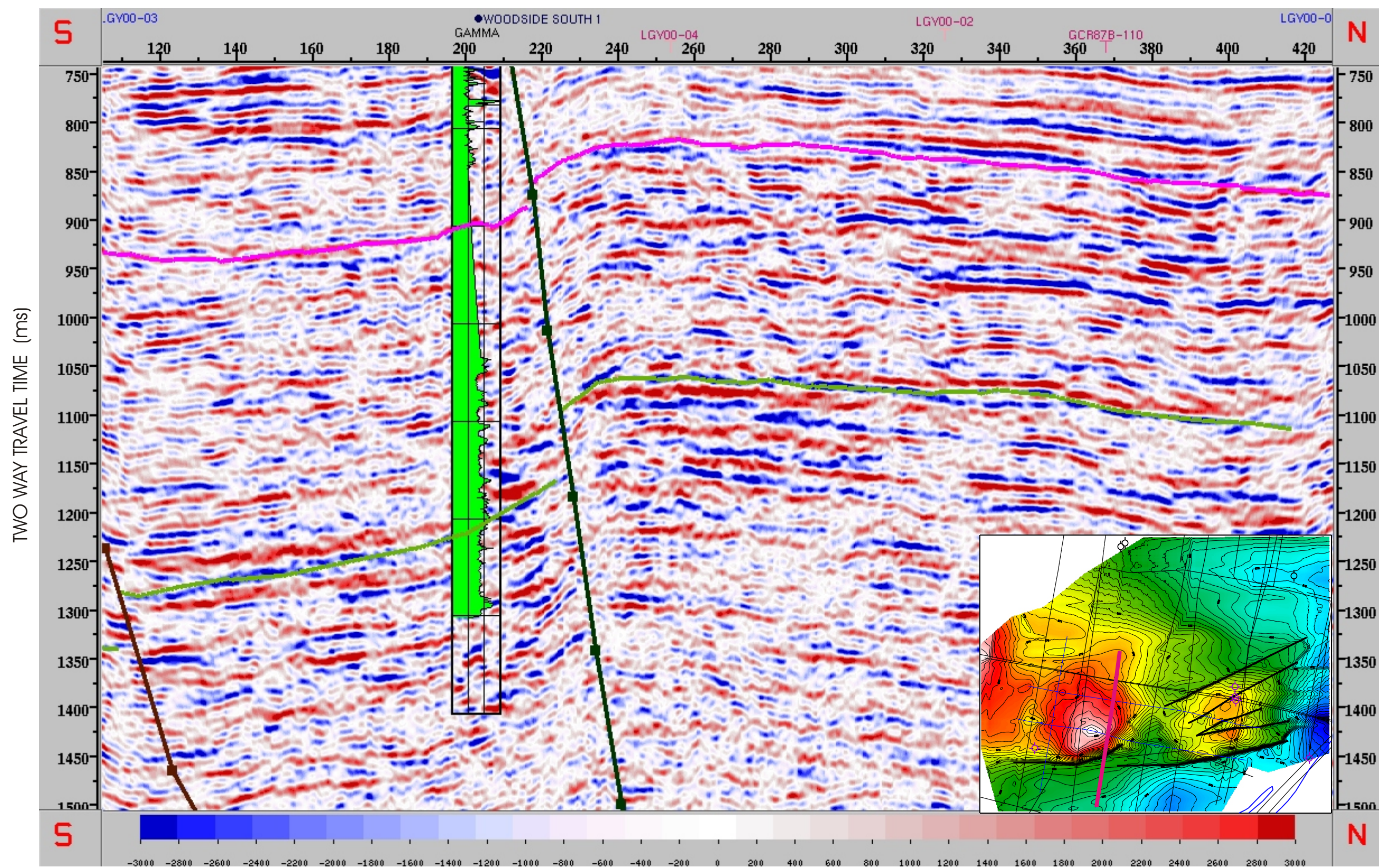




SEISMIC LINE LGY00-01  
GILBERT DEEP STRUCTURE

Figure 26a

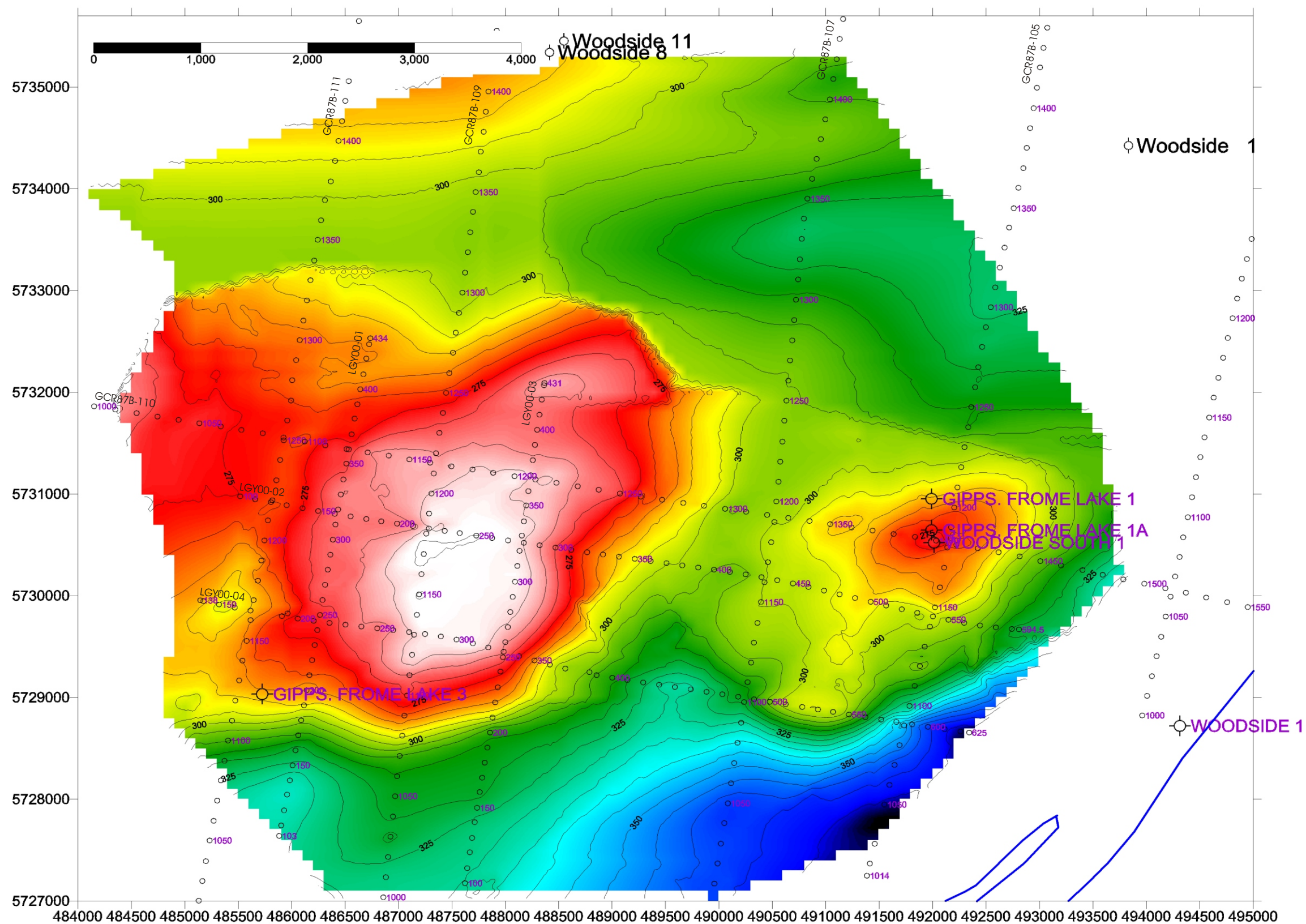




SEISMIC LINE LGY00-03  
GILBERT DEEP STRUCTURE

Figure 26b

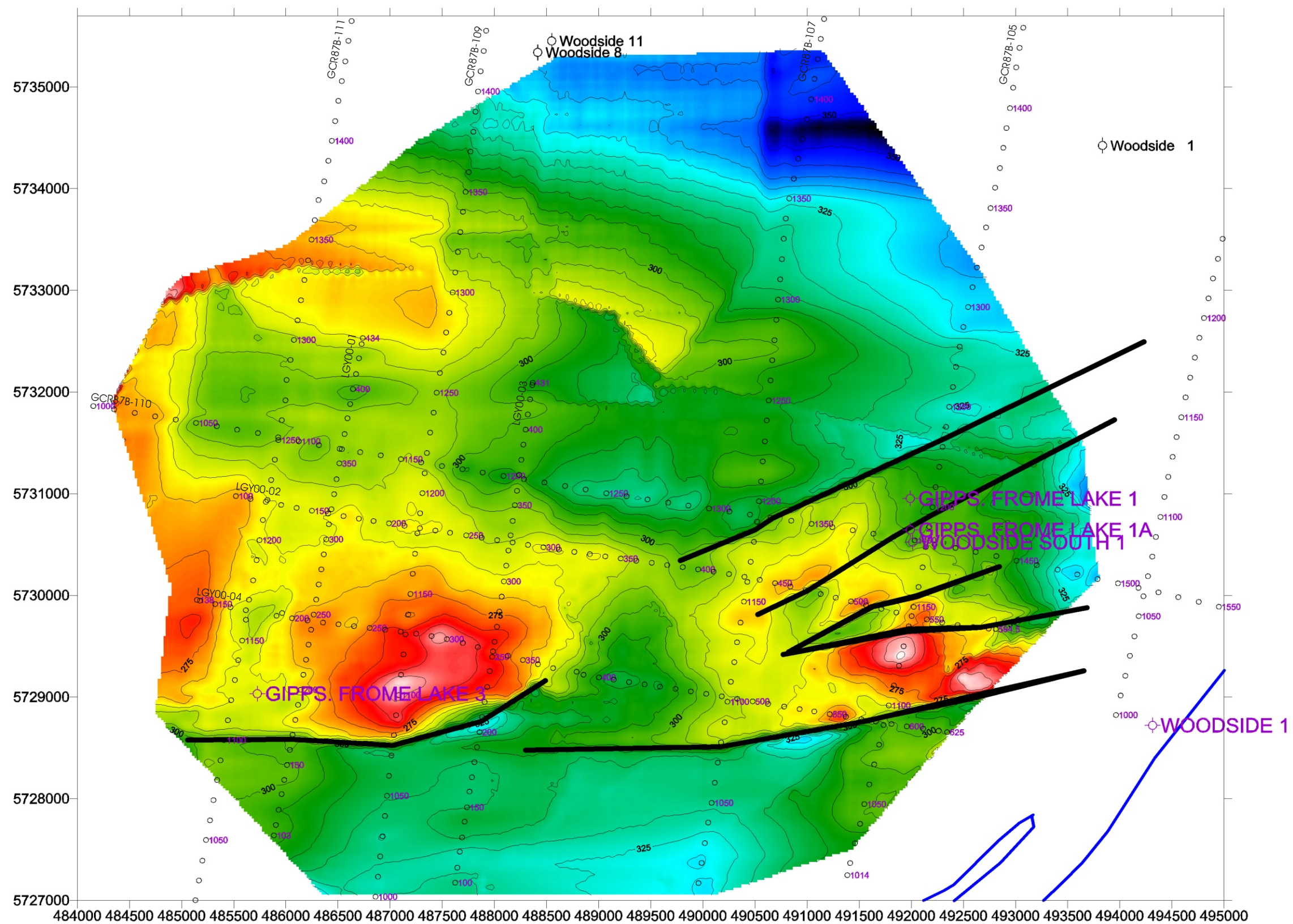




TIME STRUCTURE MAP  
GIPPSLAND LIMESTONE  
YORK PROSPECT

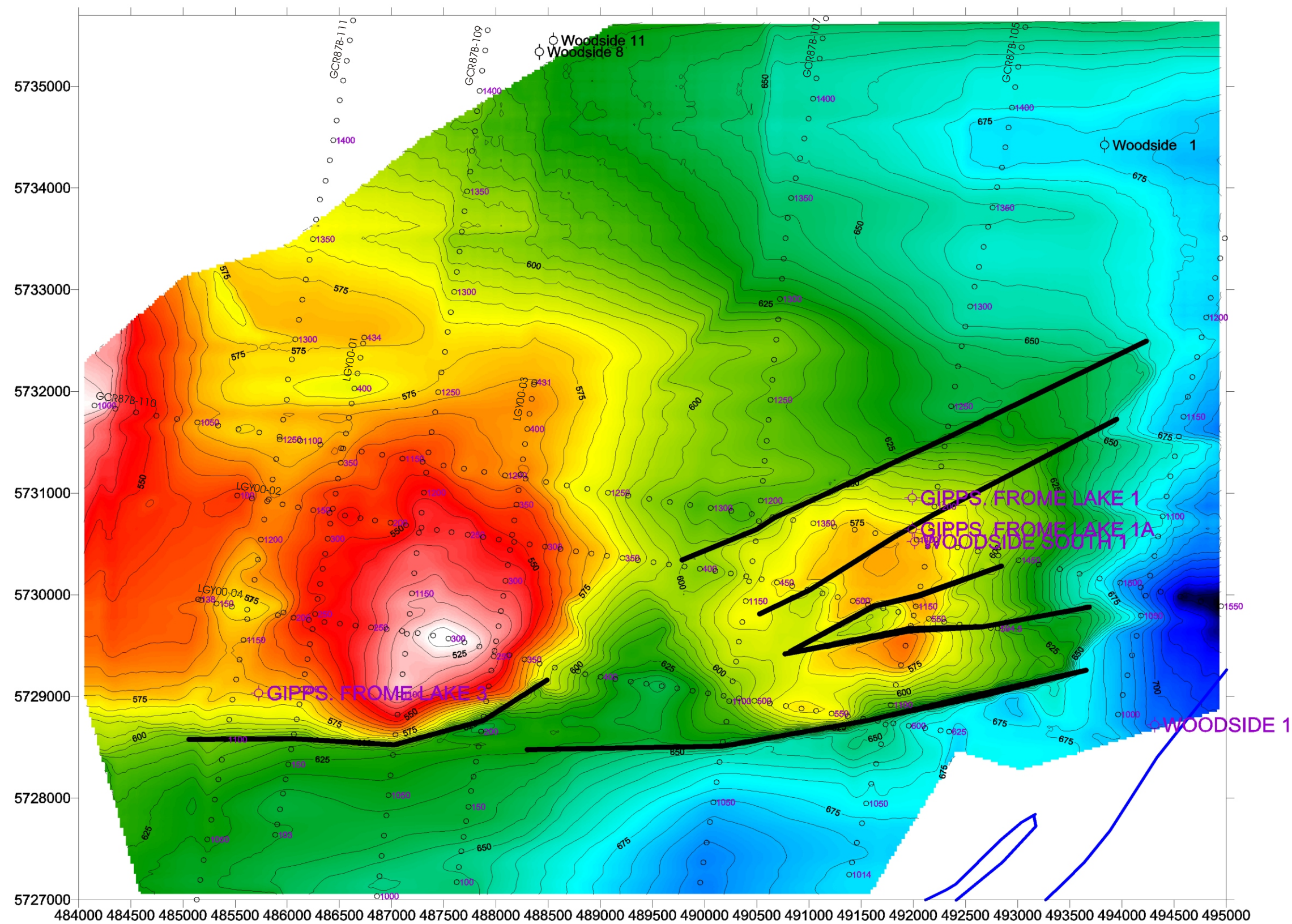
Figure 27





ISOCHRON MAP  
GIPPSLAND LIMESTONE TO TOP OF LATROBE GROUP  
YORK PROSPECT

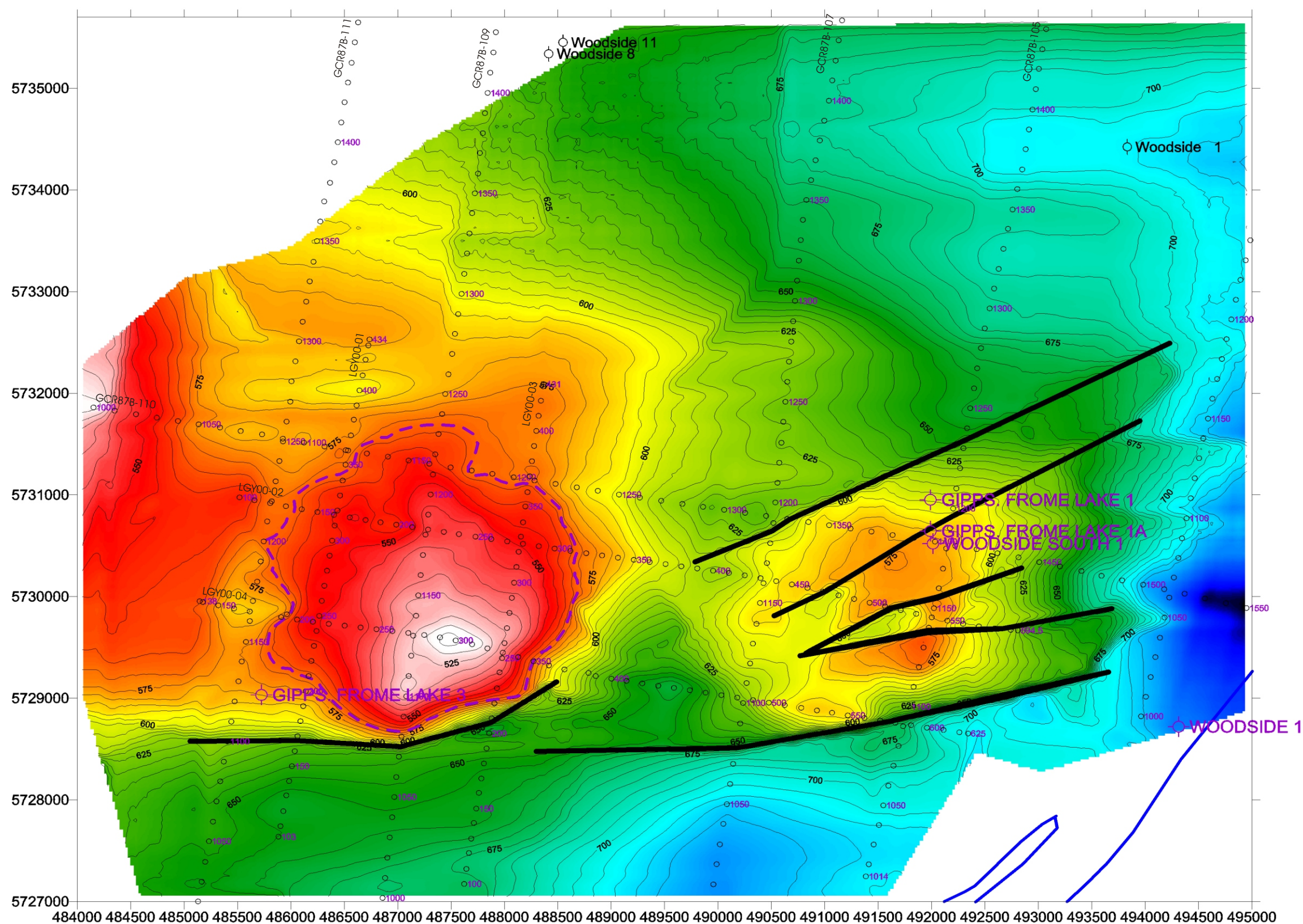




TIME STRUCTURE MAP  
TOP LATROBE GROUP  
GILBERT PROSPECT

Figure 29

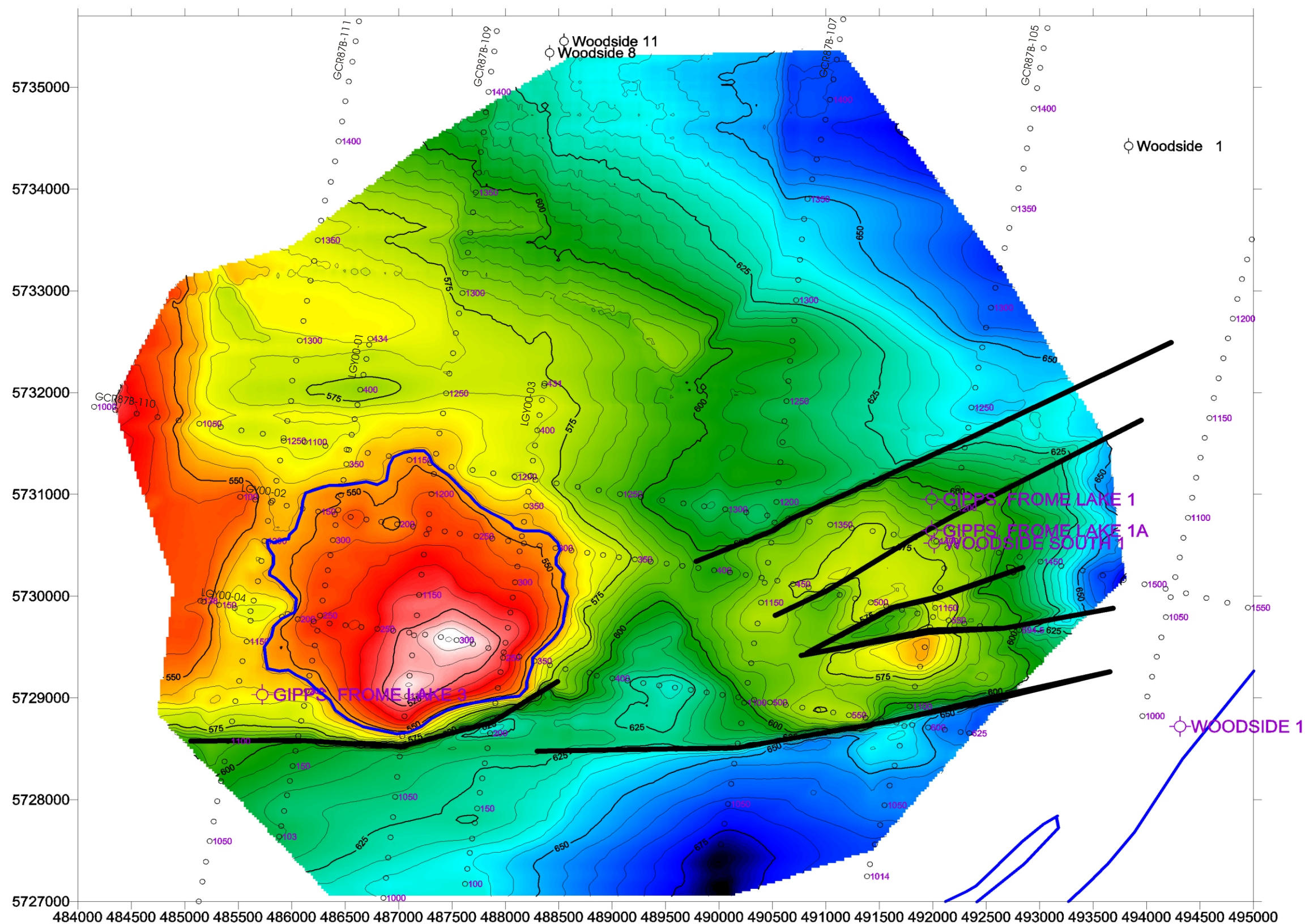




DEPTH STRUCTURE MAP  
TOP LATROBE GROUP (CONSTANT AVERAGE VELOCITY)  
YORK PROSPECT

Figure 30

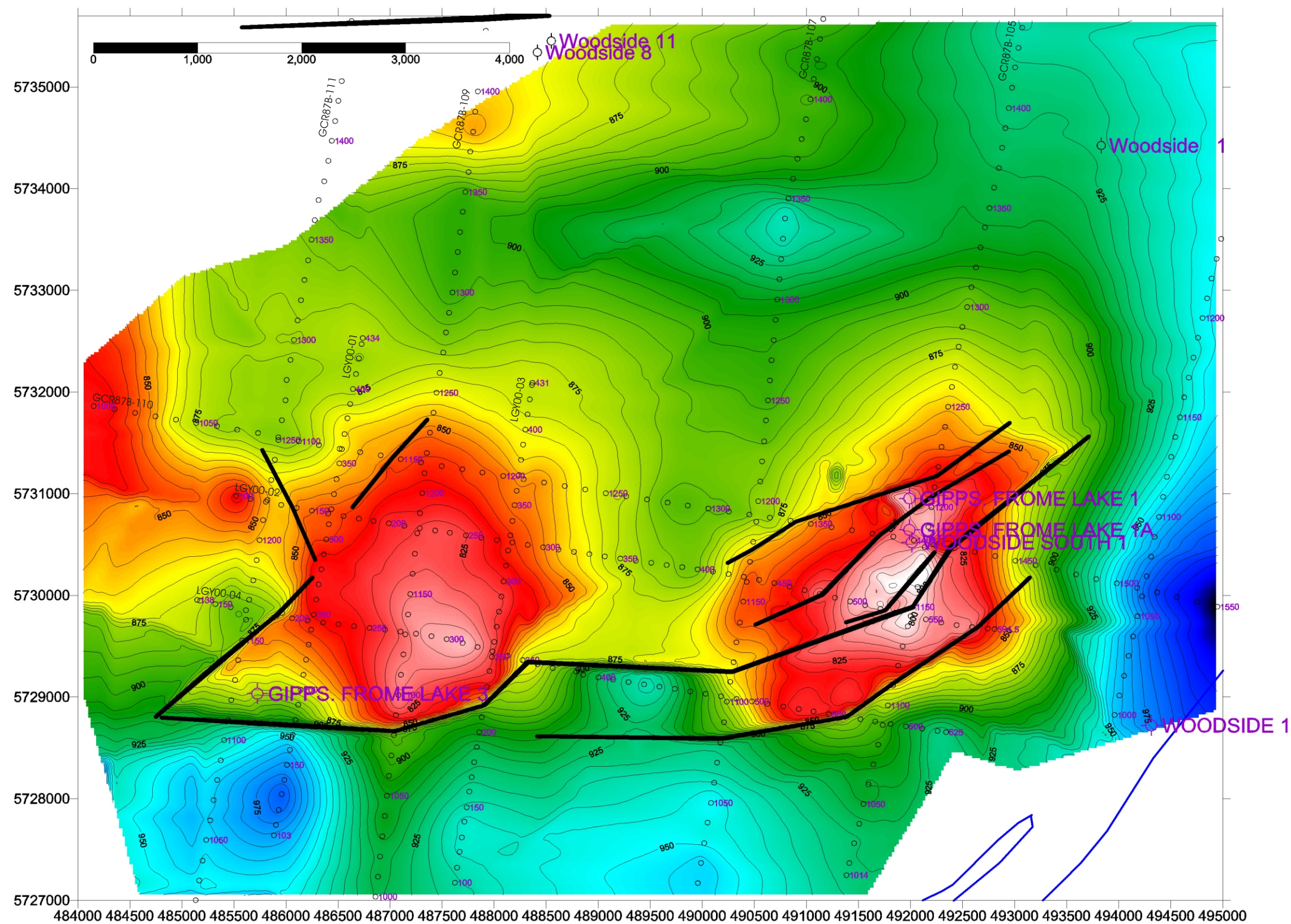




DEPTH STRUCTURE MAP  
TOP LATROBE GROUP (INTERVAL VELOCITY)  
YORK PROSPECT

Figure 31





TIME STRUCTURE MAP  
TOP STRZELECKI GROUP  
YORK PROSPECT

Figure 32





Figure 33



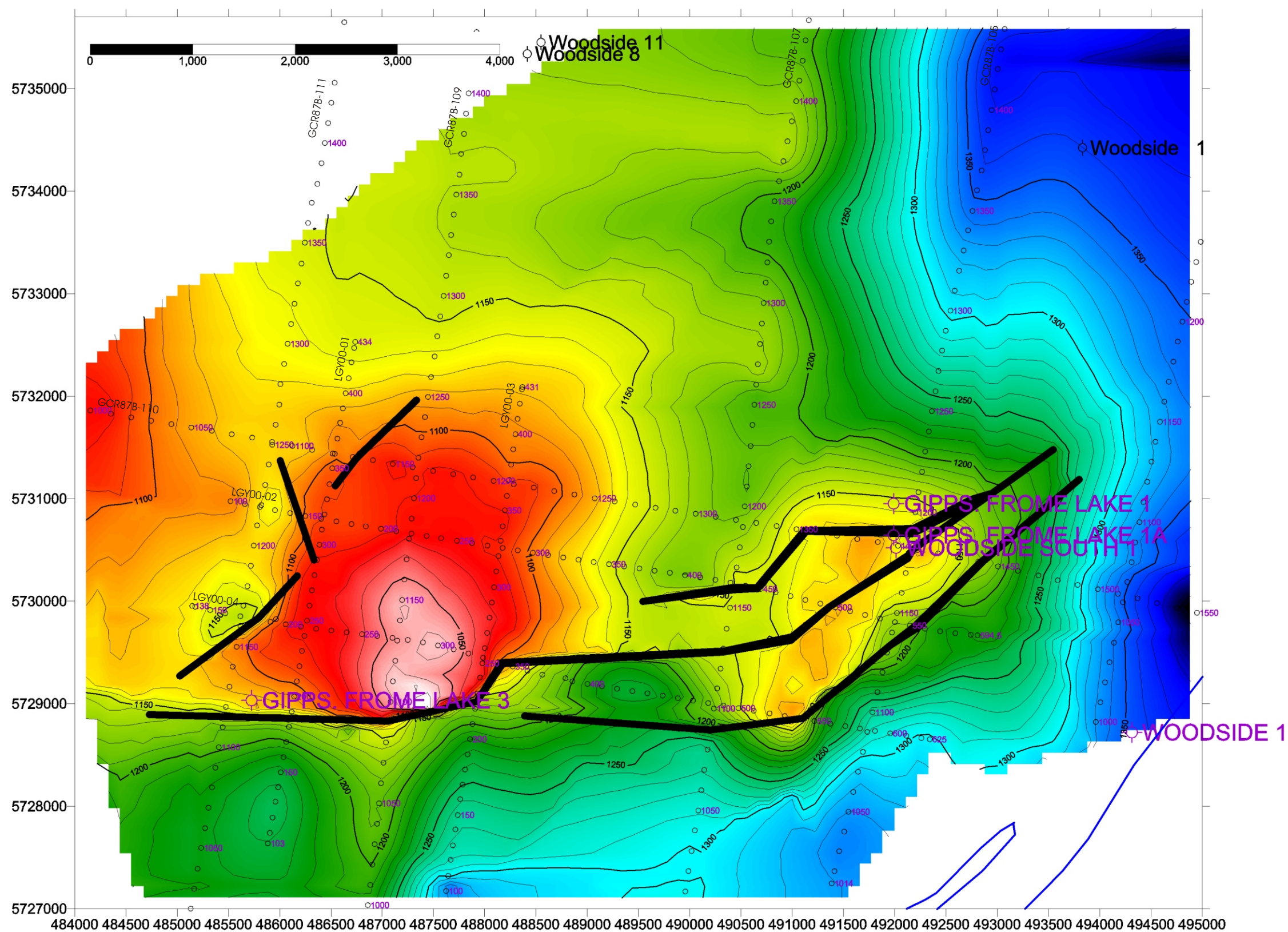
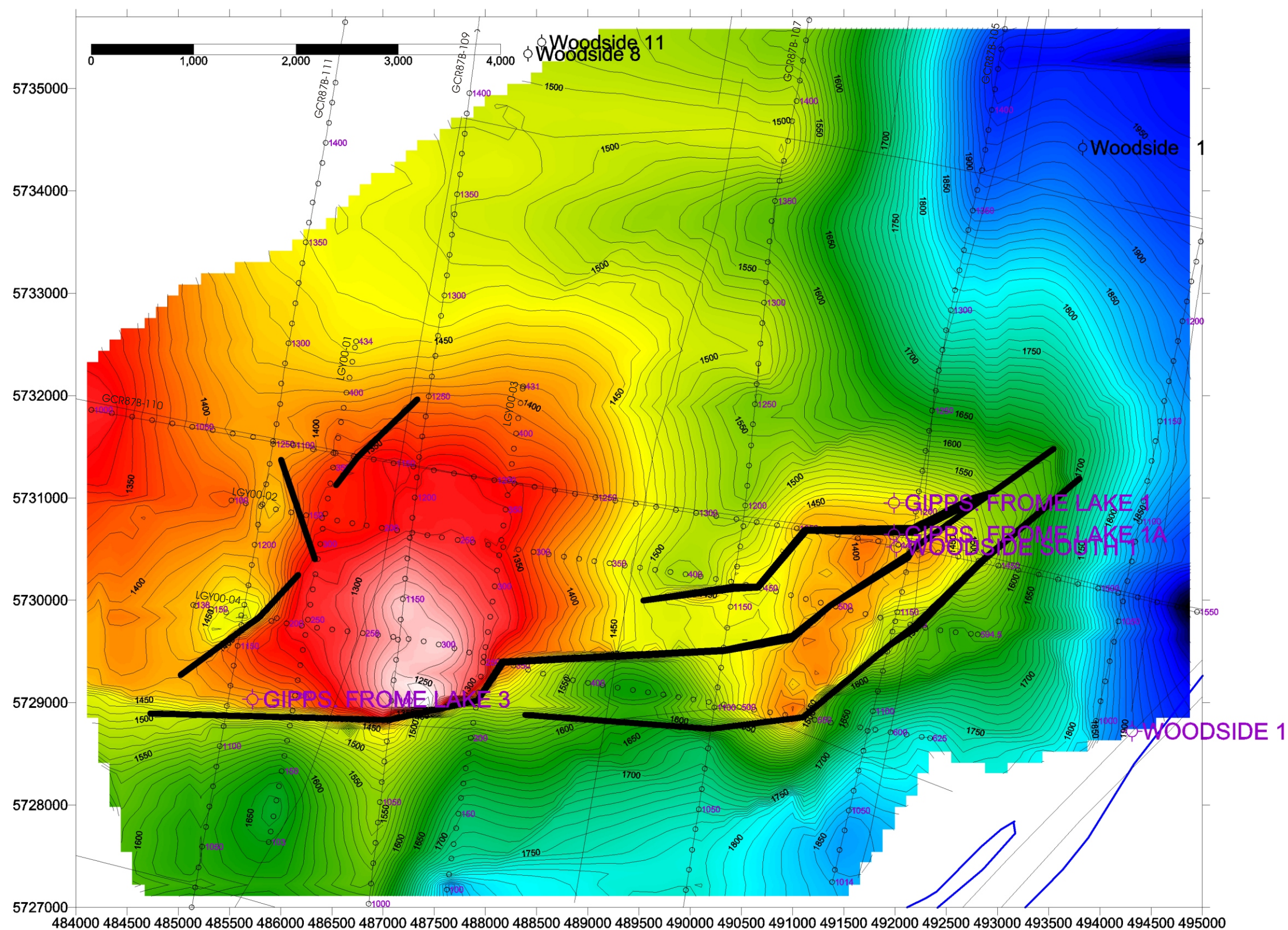


Figure 34

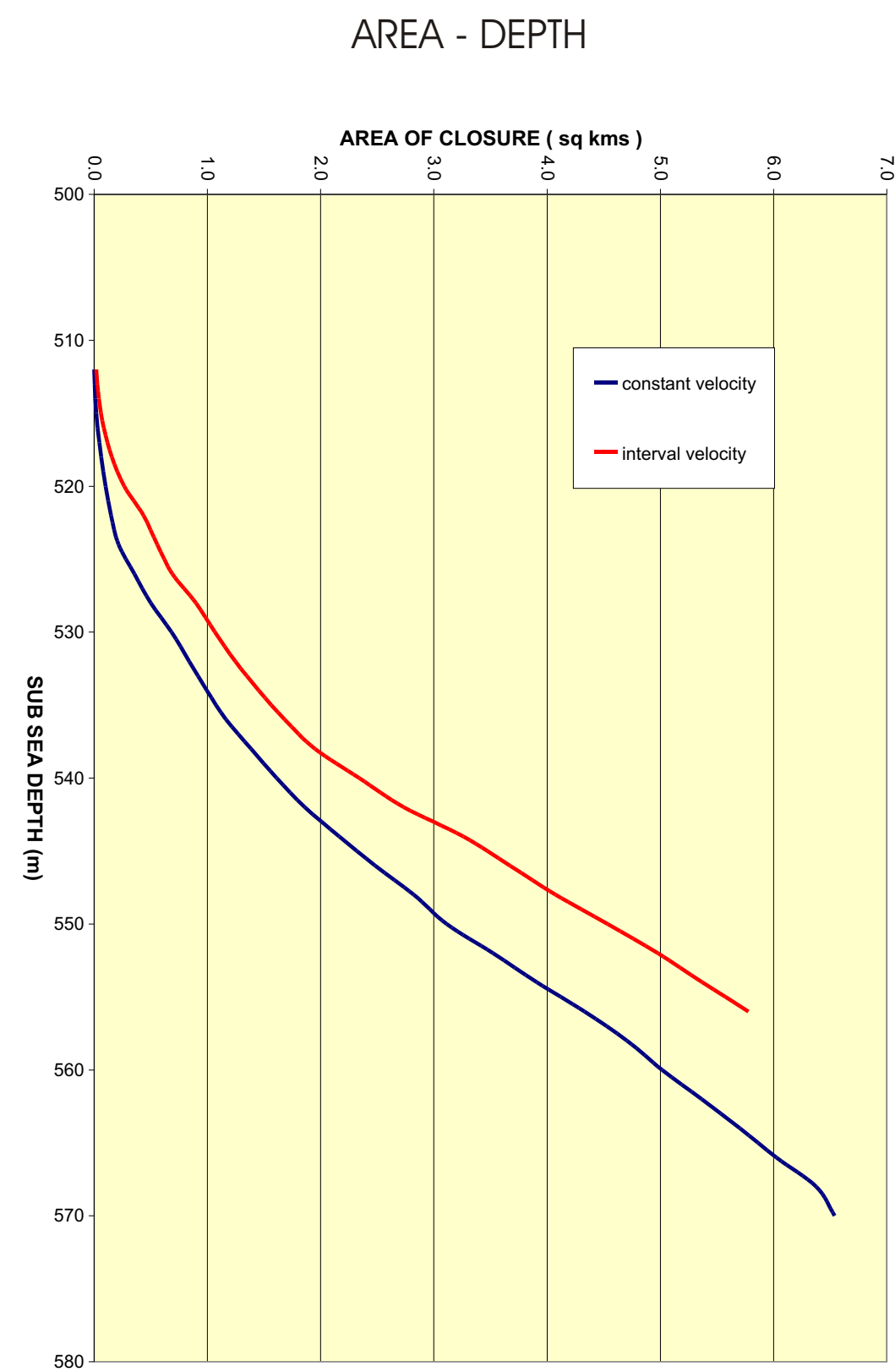
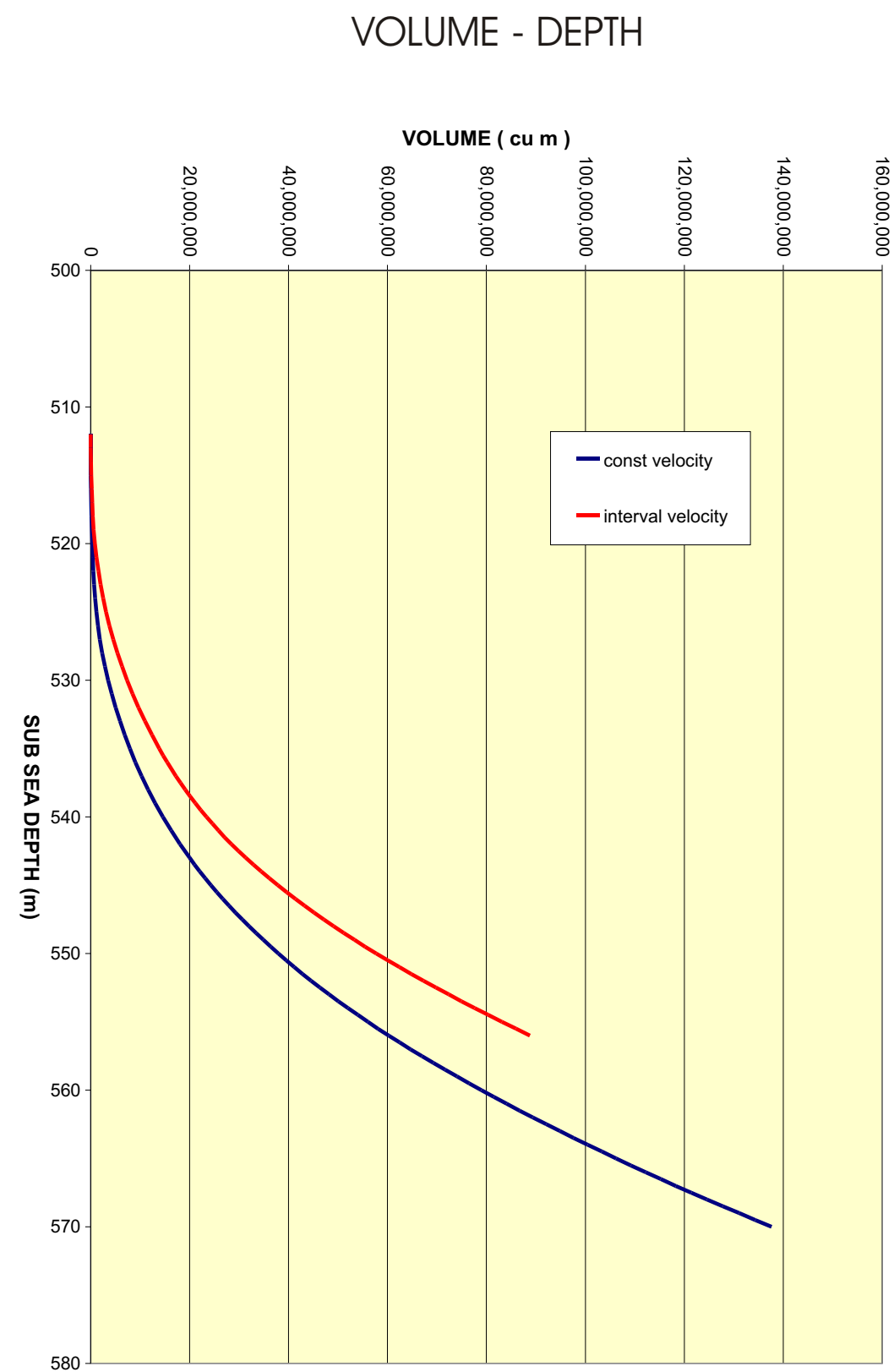




DEPTH STRUCTURE MAP  
INTRA STRZELECKI GROUP  
YORK PROSPECT

Figure 35





TOP OF LATROBE GROUP  
VOLUME & AREA - DEPTH RELATIONSHIPS  
GILBERT PROSPECT

Figure 36



PARISH NAME	PARISH HOLE NUMBER	COMPLETION DATE	DEPTH (m)	SURFACE ELEVATION (m)	EASTING	NORTHING
BRUTHEN	1		30.5	19.5	484447	5731724
BRUTHEN	10006	6/8/80	59.0	0.0	487841	5735350
WOODSIDE	1		416.4	15.0	493834	5734422
WOODSIDE	2		30.5	15.0	493986	5734438
WOODSIDE	8	11/2/74	217.0	33.0	488416	5735338
WOODSIDE	11	2/5/83	223.0	35.0	488550	5735450
WOODSIDE	8001	9/2/66	40.8	0.0	494078	5734262
WOODSIDE	8002		39.0	0.0	494713	5734209
WOODSIDE	10002		39.9	0.0	494695	5734538
WOODSIDE	10009		92.0	0.0	489377	5735325
WOODSIDE	10010	12/3/78	38.7	0.0	494779	5734045
WOODSIDE	10011	1/11/78	46.0	0.0	493697	5734268
WOODSIDE	10013		72.0	0.0	489649	5735038
WOODSIDE	10017	11/12/80	63.0	0.0	488158	5735419
BALLOONG	1		30.5	6.1	487458	5729430
BALLOONG	2		30.5	13.7	488535	5731073
BALLOONG	3		30.5	12.2	487969	5728449
BALLOONG	8001		1831.2	6.1	494315	5728719
BALLOONG	8003	12/5/66	1774.0	0.0	492014	5730520
BALLOONG	8004		40.2	0.0	488940	5729569
BALLOONG	8006		56.7	0.0	491633	5731734
BALLOONG	8008		24.7	0.0	486222	5730526
BALLOONG	8009	9/12/64	24.1	0.0	490144	5734247
BALLOONG	8012		241.0	10.2	491990	5730951
BALLOONG	8013		598.0	10.2	491990	5730642
BALLOONG	8014		572.0	8.2	485726	5729031
BALLOONG	10002	12/7/72	29.0	0.0	486650	5732957
BALLOONG	10003		15.2	0.0	488311	5729267
BALLOONG	10004	12/2/73	40.5	0.0	487071	5734348
BALLOONG	10005		25.3	0.0	486742	5731246
BALLOONG	10007	10/4/74	39.6	0.0	494236	5732361
BALLOONG	10008		29.6	0.0	490833	5728725
BALLOONG	10009		41.8	0.0	489911	5734535
BALLOONG	10010	1/2/73	34.8	0.0	489993	5733419
BALLOONG	10014	5/5/79	35.5	0.0	491653	5734297
BALLOONG	10015		98.0	0.0	492678	5732995
BALLOONG	10016		47.6	0.0	487107	5732978
BALLOONG	10019	4/1/83	36.0	0.0	490550	5732200
BALLOONG	10022		32.6	0.0	493000	5729500
BALLOONG	10024	6/1/84	105.5	0.0	491700	5731000



WATER BOREHOLE SUMMARY  
PEP 158  
ONSHORE GIPPSLAND BASIN

Table 1



Latitude	38o34'25" S	Status	P & A
Longitude	146o54'30" E	Operator	Frome – Lakes
Spud	11/07/65	Elevation (K.B.)	14.1m
Completion	15/07/65	Elevation (G.L.)	10.4m
Target		Total Depth	
Data Source	Vic Mines Dept		

Formation Tops	Depth (K.B.)	Depth (S.S.)	Thickness
Quaternary/?Boisdale Formation			
Jemmys Point Fm.	6.1	+ 7.9	177.7
Tambo River Fm.	183.4	- 175.9	44.2
Gippsland Lst.	227.9	- 213.9	283.5
Lakes Entrance Fm.	511.5	- 497.5	80.8
Seacombe Marl Mbr.			
Giffard Sst. Mbr.			
Latrobe Group	592.3	- 578.3	399.3
Gurnard Fm.			
Traralgon Fm.			
Older Volcanics			
Yarram Fm.			
Barracouta Fm.			
Strzelecki Group	991.6	- 977.5	781.3

#### Engineering Data:

DST No.	Interval (m)	Method	Recovery
1.	592.5 – 609.6	Dual Open-hole Packers	120 lin ft. Mud
2.	613.3 – 674.5	Dual Open-hole Packers	1640 lin ft. Fresh water
			270 lin ft. Mud
3.	741.0 – 802.5	Dual Open-hole Packers	2 lin ft. Mud
4.	870.8 – 925.1	Dual Open-hole Packers	940 lin ft. Fresh
5.	954.0 – 1005.5	Dual Open-hole Packers	30 lin ft. Mud
6.	1011.3 – 1069.5	Dual Open-hole Packers	105 lin ft. Mud
7.	1085.1 – 1146.0	Dual Open-hole Packers	1180ft. Muddy Salt Water **
			350 lin ft. Clear Salt Water
			540 lin ft. Mud
8.	1265.5 – 1326.5	Dual Open-hole Packers	370 lin ft. Mud

9.	1328.9 – 1392.9	Dual Open-hole Packers	850 lin ft. Mud
10.	1405.1 – 1459.1	Dual Open-hole Packers	180 lin ft. Mud
11.	1463.0 – 1527.0	Dual Open-hole Packers	90 lin ft. Mud
12.	1602.9 – 1667.0	Dual Open-hole Packers	530 lin ft. Muddy Salt Water, 180 lin ft mud
13.	1706.9 – 1772.7	Dual Open-hole Packers	140 lin ft. Mud

**\*\* Tool opened with a good strong blow which remained steady and consistent intensity throughout test**





Latitude	38°33'51"S	Status	P & A
Longitude	146°52'54"E	Operator	Frome – Lakes
Spud	9/10/56	Elevation (K.B.)	11.3m
Completion	28/10/56	Elevation (G.L.)	
Target		Total Depth	598.0m
Data Source	Vic Mines Dept		

Formation Tops	Depth (K.B.)	Depth (S.S.)	Thickness
Quaternary/?Boisdale Formation	0.8	+ 10.5	0.7
Jemmys Point Fm.	1.4	- 9.9	176.2
Tambo River Fm.	177.7	- 166.4	191.1
Gippsland Lst.	368.8	- 357.5	172.2
Lakes Entrance Fm.			
Seacombe Marl Mbr.	541.0	- 529.7	46.6
Giffard Sst. Mbr.	587.7	- 576.3	4.0
Latrobe Group			
Gurnard Fm.			
Traralgon Fm.	591.6	- 580.3	6.4+
Older Volcanics			
Yarram Fm.			
Barracouta Fm.			
Strzelecki Group			

**Engineering Data:**

Formation testing.  
 Bailing of the glauconitic sandstone unit produced no show of oil or gas.  
 Static open hole water level was 13.7m (2.4m below SL).

**Hole and casing:**

6 ½” casing to 187.5m.

**Conventional cores:**

A total of 17.7m of cores were cut, with 14% recovery.

**Remarks:**

Tops are based on lithologic picks only.





Latitude	38°35'16"	Status	P & A
Longitude	146°50'10"	Operator	Frome – Lakes
Spud	15/11/56	Elevation (K.B.)	9.1m
Completion	30/11/56	Elevation (G.L.)	
Target		Total Depth	572.1m
Data Source	Vic Mines Dept		

Formation Tops	Depth (K.B.)	Depth (S.S.)	Thickness
Quaternary/?Boisdale Formation			
Jemmys Point Fm.	Surface	+ 9.1	200.3
Tambo River Fm.	200.3	- 191.1	150.3
Gippsland Lst.	350.5	- 341.4	190.5
Lakes Entrance Fm.			
Seacombe Marl Mbr.	541.0	- 531.9	21.3
Giffard Sst. Mbr.	562.3	- 553.2	6.1
Latrobe Group			
Traralgon Fm.	568.5	- 559.3	4.0
Older Volcanics			
Yarram Fm.			
Barracouta Fm.			
Strzelecki Group			

#### Engineering Data:

Formation testing.  
Bailing of the well resulted in no hydrocarbon shows.  
Static water level 10.7m (1.5m below SL).

#### Hole and casing:

6 ½" casing to 283.7m.

#### Conventional cores:

A total of 3.0m for core was attempted; 1% recovery.

#### Remarks:

Tops are based on lithologic picks only.

