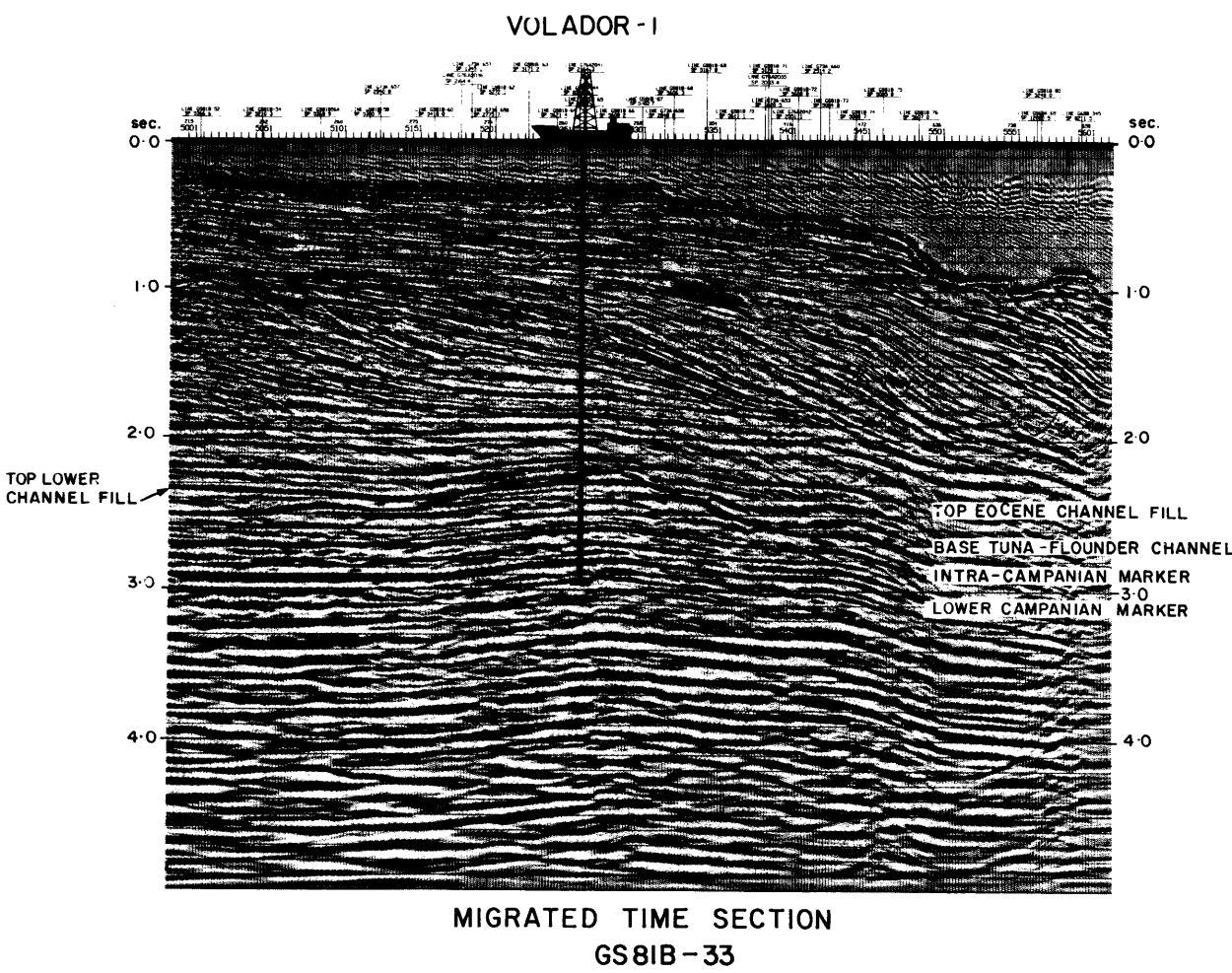
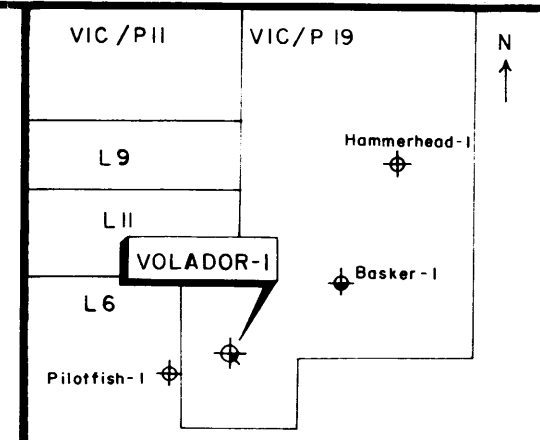


SHELL - AUSTRALIA E. & P. OIL AND GAS.

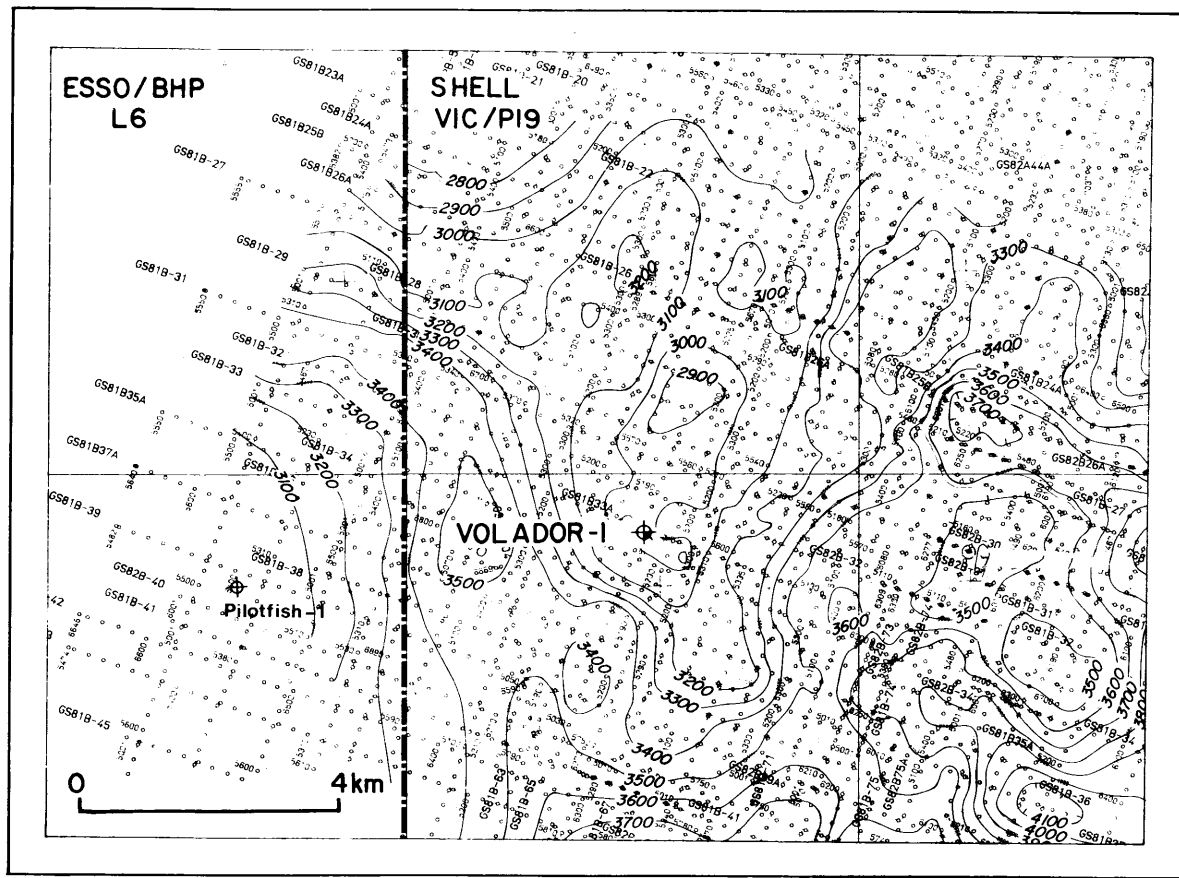
VIC/P19 GIPPSLAND BASIN
VOLADOR - 1
 WELL SUMMARY SHEET

CO-ORDS: LAT.S38°25'28.3" ELEVATION DF 25m
 LONG.E148°32'36.7"
 PERMIT No. VIC P/19 TOTAL DEPTH 4611m
 STATE VICTORIA RIG NYMPHEA
 PARTNERS SHELL (40%) SPUDED 26/12/82
 NEWS (20%) TNT (20%) COMPLETED 19/4/83
 CRUSADER (15%) MINCORP (5%) TYPE COMP P & A

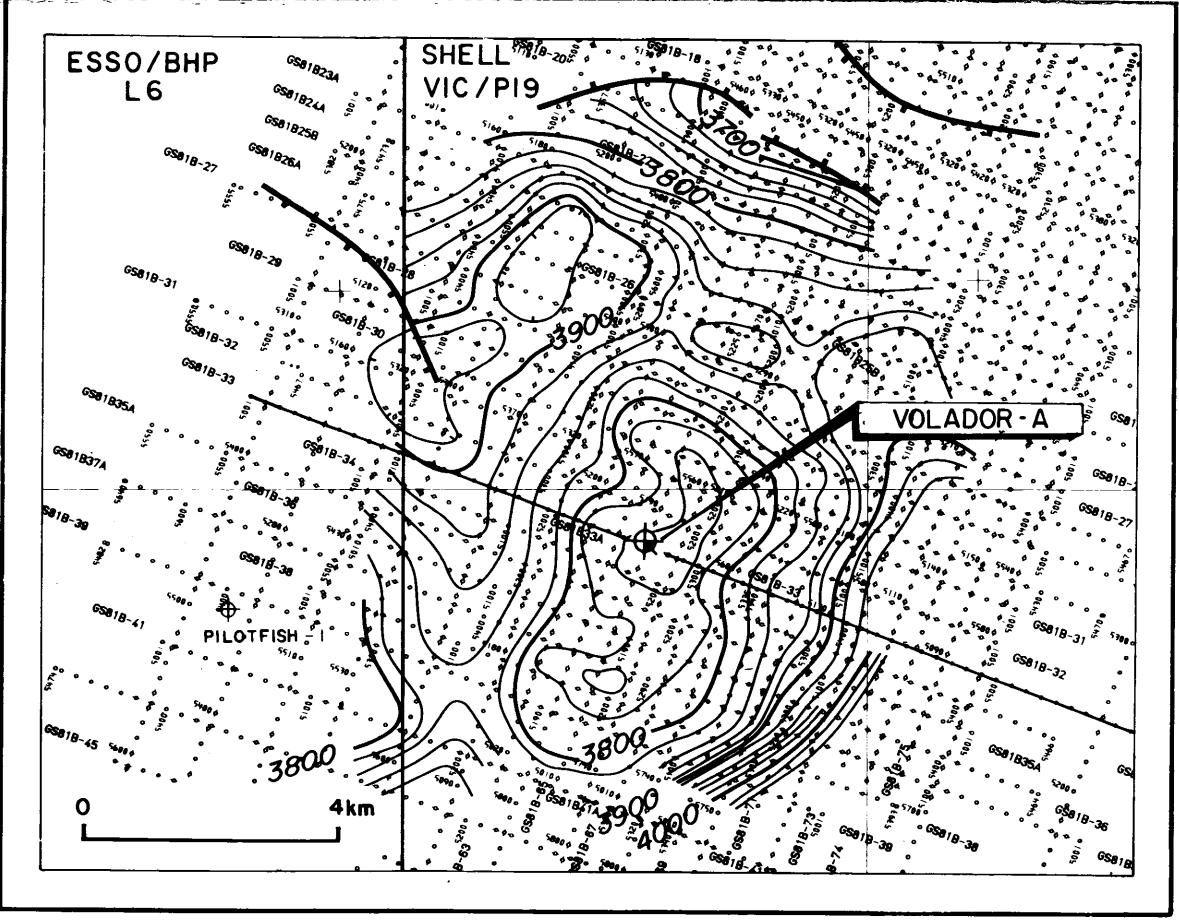
DEPT. MAT. RES. & ENV.
 PE903587



MIGRATED TIME SECTION
 GS81B-33



TOP LATROBE COARSE CLASTICS: MIGRATED DEPTH MAP
 (metres sub-sea)



INTRA-CAMPANIAN MARKER: MIGRATED DEPTH MAP
 (metres sub-sea)

SUMMARY: 1:50,000

Location: 14 km SE of the Flounder Oilfield at intersection of lines GS81B* - 33 and GS81B - 65

Structure: A south plunging nose with an erosional high at base Tuna - Flounder Channel level and a slight turnover at an intra-Campanian level.

Results: The well encountered a broadly transgressive Latrobe sequence with coal-rich coastal plain sediments below 3500m, overlain by back-barrier/lagoonal and beach barrier sands and shales. Significant hydrocarbon shows were recorded below 3750m and petrophysical analysis indicates 24.4m of net sand with an average hydrocarbon saturation of 56%.

Conclusions: Although hydrocarbon shows were ubiquitous below about 3680m saturations were insufficient to provide a commercial accumulation. Volador-1 was a useful deep test of the poorly known Upper Cretaceous section of the Latrobe Group near the seaward margin of the basin, proving the existence of a thick coal-rich source rock sequence.

	DEPTH:	RECOVERY:
RFT: 1	317.1m	10.1 litres water R = 0.228 ohm-m
2	3019.6, 3023, 3040.5m	9.2 litres water R = 0.226 ohm-m
3	3913.3m	9.8 litres water NaCl 34650 ppm
4	3756.2m	10.1 litres water NaCl 33000 ppm
5	3756.2m	6 gallons water NaCl 34650 ppm

DEPTH BDF FEET	TIME STRATIGRAPHY	ENVIRON.	CASING CORES	LITHOLOGY & INDICATIONS	ROCK STRATIGRAPHY (REGEO CODES)	LOGS
0				25m sea level		
1000	? QUATERNARY		30" casing 332m depth	No cuttings above 20" casing. Correlation with nearby wells indicates lithology to be calcilutite and calcarenite.		
2000			20" casing 551m depth			
3000	PLIOCENE			Calcarenite ge foss		
4000			13 3/8" casing 1308m depth	Marl ge-(gn)ge foss, tr carb	GIPPSLAND LIMESTONE	
5000	LATE MIOCENE					
6000						
7000	MID MIOCENE					
8000						
9000	EARLY MIOCENE					
10000	EARLY OLIGOCENE					
11000	EARLY EOCENE					
12000	MAASTRICHT.					
13000						
14000						
15000						
15000						

PROD. TEST	DEPTH	OIL	GAS	COND.	WATER
PROD. TEST 1	3911 - 3914m	3 bbls	50 MCFD		50 bbls gas 36% CO ₂
PROD. TEST 2	3756 - 3759, 3767 - 3773	5 bbls	2 MMSCF	28 bbls	160 bbls gas 15% CO ₂
	3777 - 3783 m				

SEIS. MRY
 NO LOGS
 DIL / GR / SP / LSS
 LDT / GR / CAL
 DIL / LSS / GR / SP
 LDT / GR / CAL
 CST (1) GUN, 5-10T51, REC 42
 DLT / GR / CAL / SP
 LDT / GR / CAL
 CST (3) GUNS, SHOTS 132, REC 122
 HOT
 LDT / GNL / GR
 DLT / MSFL / GR
 CAL / SP
 CST 10/21