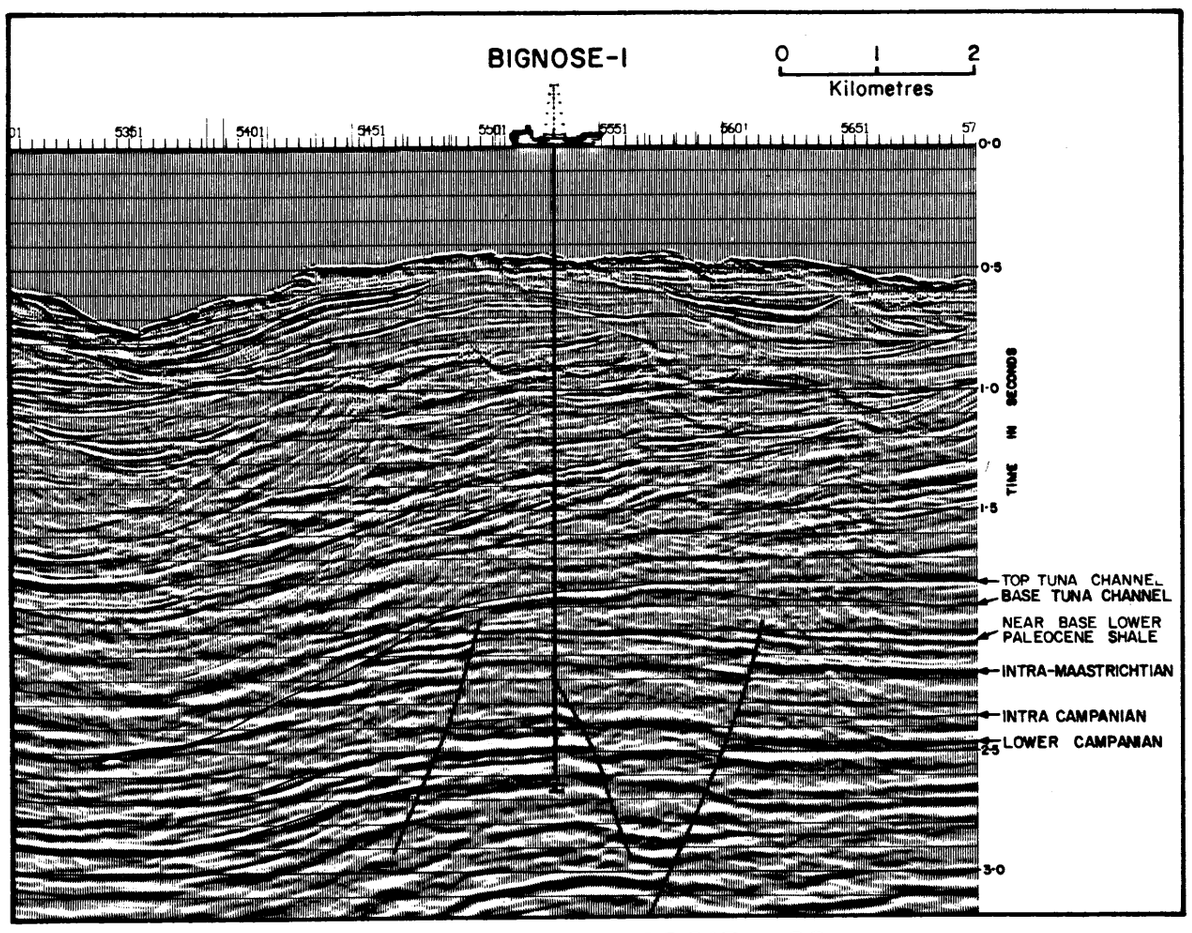
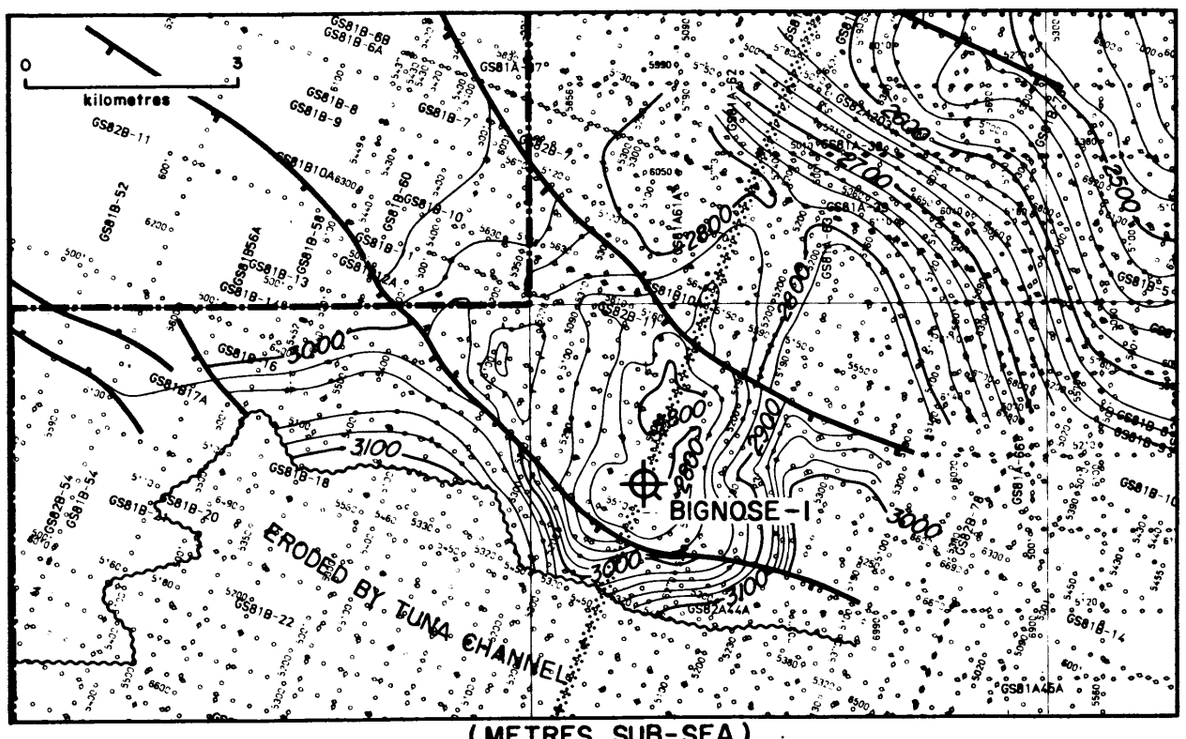


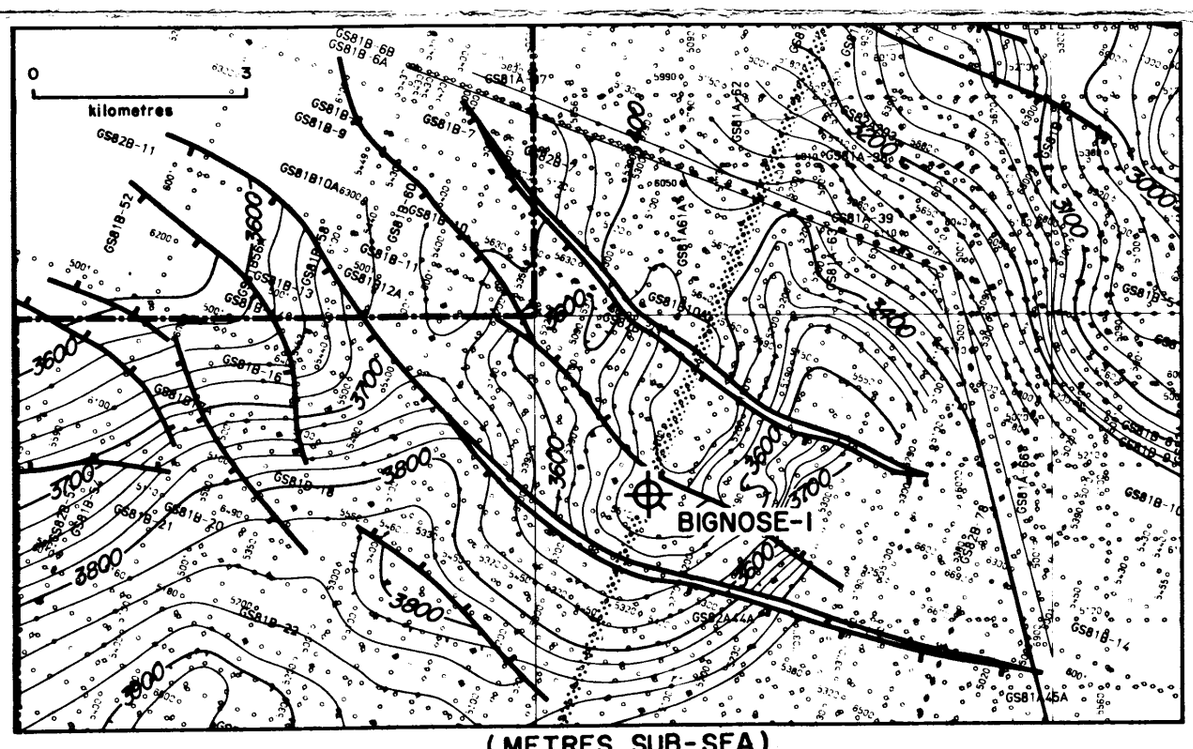
SEISMIC LINE GS81B - 69



(METRES SUB-SEA)

LOWER PALEOCENE - DEPTH MAP

BIGNOSE PROSPECT



(METRES SUB-SEA)

INTRA CAMPANIAN - DEPTH MAP

BIGNOSE PROSPECT

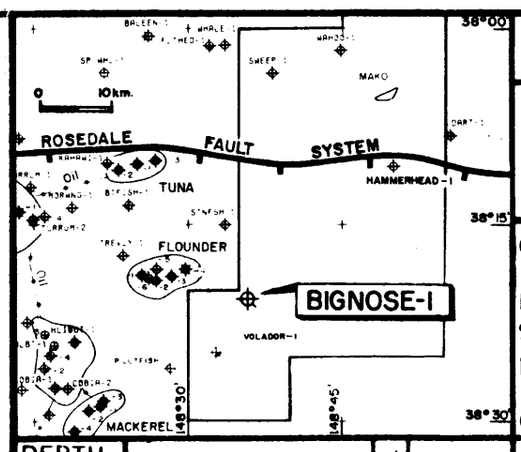
SUMMARY

Location : 12km ESE of the Flounder Field, 9km NNE of Volador-1 and 9km SW of Basker-1.

Objectives : Faulted nose on the eastern flank of the Flounder Field, with dip closure in early Paleocene/Maastrichtian coastal and near coastal sandstones sealed by marine shales and fault closure in Campanian fluvial sandstones sealed by coastal plain shales and siltstones.

Results : Bignose-1 encountered a sequence similar to that present in Volador-1, with a coastal plain sequence below 3318m overlain by back barrier/lagoonal and beach barrier sands and shales. Significant gas shows were recorded from 3460m downwards, while traces of spotty fluorescence were reported from sandstones below 3526m. Petrophysical analysis indicated 12.5m of net sandstone with hydrocarbon saturations between 36 and 50%. The thickest of these sands produced water and gas on production test.

Conclusions : The section below the intra-Campanian marker in Bignose-1 has more similarities with Volador-1 than Basker-1. Onset of oil maturity in Bignose is interpreted to be at about 3560m and the first oil shows were seen at 3526m; this implies that only limited vertical migration of oil has occurred above the depth of onset of oil maturity.



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

GIPPSLAND BASIN VIC P/19

BIGNOSE - 1

WELL SUMMARY SHEET

CO-ORDS: LAT: 38°21'21·42" ELEVATION DF: 25m
LONG: 148°36'5·48" WATER DEPTH: 354m
PERMIT No.: VIC/P19 TOTAL DEPTH: 3996m.
STATE: VICTORIA RIG: NYMPHEA
PARTNERSHIPS: SHELL(40%) SPUDDED: 12·00hrs. 16/9/83
NEWS(20%) TNT(20%) COMPLETED 15·11·83
CRUSADER(15%) MINCORP(5%) TYPE COMP. P & A

DEPTH BDF FEET	DEPTH BDF METRES	TIME STRATIGRAPHY	ENVIRON.	CASING CORES SWS	LITHOLOGY & INDICATIONS	ROCK STRATIGRAPHY (REGEO CODES)	SEIS. MRK.	LOGS
					SEA FLOOR 25m			
	1000							
		? QUATERNARY		30" 425m	379m SEA FLOOR			No Logs
	500							
	2000			20" 674m				
	3000	PLIOCENE				GIPPSLAND LIMESTONE FORMATION		DIL/LSS.GR/SF LDL/CAL/GR
	1000			13 3/8" 1200m	ge, foss Mrl.			
	4000							
	1500							
	5000	TERTIARY						
	6000							
	2000	MID MIOCENE						
	7000					2164m		
						LAKES ENTRANCE		
	8000	2463 E.MIOC. 2490						
	2500	E. OLIGOCENE				2524m		
		E. EOCENE				FLOUNDER 2596m FM		
		PALEOCENE			St ge glc			
					Ss gz unconsol. m-crs			
	9000			9 5/8" 2740m	Slst glc py	2762·5m	LP	
	3000							
	10000	MAASTRICHT.				2989m	MM	
								DLL-MSFL-G LDL-CNL-G LSS-G
	11000							
	3500					3318m	IC	HDT
		CRETACEOUS			Sltst + Sh bw-ge carb + minor coals bk, vit.	LATROBE GROUP		VELOCITY SURVEY
	12000	CAMPANIAN			① Prod.Test 1 ②			
					Ss f-m dm + si cmt	3805m		
	13000				③			
	4000				TD 3996m			

RFT ① 3557·5m Rec 13000cc fluid (filtrate) and 49·5 cu ft gas.
② 3618m Rec 22·5 L fluid (filtrate) and 0·3 cu ft gas
3·6 L fluid (filtrate) and minor gas
③ 3910m Rec 22·7 L filtrate
3·6 L fluid (filtrate)

PRODUCTION TEST 1 3554 - 3563m Flowed 460 bbl/d water,
1·45 MMSCF/d gas on 3/4" choke.
Gas contained 38% CO_2 and 3% N_3

DEPT. NAT. RES & ENV
PE902524

Bignose-1. W.C.R.

Author: EXH/4	Date: June 1984	Encl. 2
Report No.: SDA 567	Drawing No.: 18408	

Base Drg. No. 9392-1