ARCO LTD

WELL NAME _Duck Bay 1_ .... SPUDDED ....

LOCATION .... COMPLETED ....

ELEVATION .... STATUS ....

TOTAL DEPTH .... RIG ....

CASING .... CONTRACTOR ....

GEOLOGIST ....

DEPT. NAT. RES & ENV
PE604530

BIT TYPES & REMARKS	DRILLING RATE MIN/5 FT	LITHOLOGY	% OF CUTTINGS	MUD GAS DETECTION Units of Total Gas	DEPTH IN FEET	LITHOLOGY INTERPRETATIVE	LITHOLOGICAL DESCRIPTIONS	STRATIGRAPHIC COLUMN
	1 2 3 4 5			0 50 100				

HTC SF 8¾"
HTC SF 8¾"

SEC 8¾" S3J

HTC SF 8¾

HTC 8¾ OSCIG

HTC SF 8¾"

SEC 8¾ S3J RR

SF 8¾ HTC

HTC 8¾ OSCIG

HTC HF 8¾ coring time

HTC 8¾ OSCIG

HTC SF 8¾

HTC 8¾ OSCIGJ

Depth markers: 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900

CORE #1, CORE #2, CORE #3, CORE #4, CORE #5, CORE #6, CORE #7

Shale Gas

Lithological Descriptions:

2190' – 2240'   Shale, brown green and gray green, firm, moderately to very glauconitic and pyritic, fossiliferous, floating coarse sand grains common.

2240' – 2285'   Sand, dark green gray to medium brown, fine to coarse grained, glauconitic and pyritic, good to fair porosity, slightly argillaceous, slightly micaceous, gradational downward into ligneous sand.

2285' – 2684'   Sand, fine to very coarse and Gravel, mostly sub-angular, clean to very ligneous and argillaceous, fair to very good porosity; and Brown Coal, brittle to soft, partly silty and shaly

2684' – 3100'   Shale – Mudstone, dark gray, gray green and brown, compact, often silty, carbonaceous; and Siltstone, light gray to light brown, argillaceous, carbonaceous, micaceous.

3100' – 3175'   Clay, light gray to light brown, with traces of green chlorite grains; and Shale, as above. This interval is possibly highly weathered volcanics although it appears on the electric logs similar to the overlying section

3175' – 3500'   Volcanics; dark green to black, aphanitic to finely crystalline, highly altered, chloritic Basalt; light brown to pink, very fine grained Tuff; and minor Breccia. Traces of Shale, dark red-brown and Siltstone, dark red brown, sandy with inclusions of volcanic fragments.

3500' – 4128'   Sandstone, white to light gray, very fine to coarse-grained, white argillaceous matrix, friable to slightly hard, tight, carbonaceous flakes and laminations common, slightly micaceous; and minor Shale, dark brown and medium gray; and Siltstone, light gray, partly slightly dolomitic. Very poor samples in this interval due to severe caving of formations above.