OR-350

ENCLOSURE 15 382058

ESSO EXPLORATION AND PRODUCTION AUSTRALIA INC.

ROCK LOG
(CLASTICS)

LOG No. ____

WELL Konkon No 1 LOCATION Bass Basin

BASIN Bass
WELL Konkon No 1
LOCATION Bass Basin

		LOGGED BY	INTERVAL	DATE
ELEVATION GRD.	K.B. 32'			
STATUS Plugged & Abandoned		G. Short	710 - 2890	21.5.73 24.5.73
TOTAL DEPTH 5043		J. Black	2890 - 4411	24.5.73 27.5.73
OLDEST FM. PENETRATED Cret.		G. Short	4441 - 5043	27.5.73 28.5.73

COMMENTS: No Significant Shows found. Minor CH_3 in Coals only.

ROCK TYPES

SHALE	▤	LIGHT GREY
MARL	∽ ∽ ∽	LIGHT GREEN
SILTSTONE	∿∿∿	BROWN
SANDSTONE	⋯	YELLOW
COAL	■	BLACK
CONGLOMERATE	⁘	YELLOW
LIMESTONE (W Fn Fraction)	▦	DARK BLUE
LIMESTONE (Wo Fn Fraction)	▦	LIGHT BLUE
DOLOMITE	/ / / /	PURPLE
ANHYDRITE	+ + + + + +	ORANGE
SALT	X X X X X	GREEN
GYPSUM	++ ++ ++ ++	ORANGE
BENTONITE	∿	RED
VOLCANIC	V V V V V	RED
IGNEOUS	▨	RED
METAMORPHIC	▨	RED

MISCELLANEOUS

Cavings — CAVINGS, cannot interpret
☒ NO SAMPLES

FRAMEWORK TYPES

NON-SKELETAL	Θ	OOLITES AND PISOLITES
	L	LUMPS AND AGGREGATES
	P	PELLETS
	◊	INTRACLASTS
SKELETAL	F	FOSSILIFEROUS
		ALGAE AND ALGAL
	⊕	CORAL
		STROMS
		BRACHIOPOD
		BRYOZOA
		FORAM
		CRINOID
		CEPHALOPODS
		PELECYPODS
		OSTRACOD
	K	CALCISPHERE
		ECHINOID
		SPICULE

ACCESSORIES

ARGILLACEOUS	—	++	GYPSIFEROUS
CALCAREOUS	⊥	◊	SIDERITIC
DOLOMITIC			GLAUCONITIC
LS STREAKS		B	BENTONITIC
DOL STREAKS		◆	PYRITIC
SANDY (Silica)	·Q		MICACEOUS
SILTY (Silica)		▬	CARBONACEOUS MATTER
ARKOSIC	▭		IRST. NODULES
SILICEOUS	Λ	⊞	SALT CASTS
CHERT (Lt. and Dk.)	△▲		FISH REMAINS
QUARTZ CRYSTALS	*		PLANT REMAINS
CALCITE CRYSTALS			SPORES
ANHYDRITIC	+		PHOSPHATIC

ALTERATION			POROSITY TYPES
FRACTURED	f	x	INTERXLN, INTERGRAN
RECRYSTALLIZED	R	V	VUGULAR (0625 mm)
STYLOLITIC		P	PINPOINT (0625 mm)
LEACHED	L	f	FRACTURE
BRECCIATED	◊◊	e	EARTHY
WEATHERED	W	O	ORGANIC

FORMATION TOPS SHOWS FOOTAGE	ENGINEERING DATA	POROSITY TYPE	PERMEABLE GRADE	POROSITY GRADE	LITHOLOGY	GRAIN, FRAGMENT OR CRYSTAL SIZE	ROUNDING	MINOR ACCESSORIES	ROCK COLOUR	REMARKS (ROCK NAME, first occurence descriptions, etc)
	D S T's CORES			> 20% 12% - 20% 6% - 12% 2% - 6% TR - 2% ROCK SHADE		0625 mm 125 mm 250 mm 500 mm 1 000 mm 2 000 mm > 2 000 mm		5%		

Base of conductor hole at 710'. Set 20" casing at 681'. Drilling with seawater.
Fossil shell fragments - bryzoans, pelecypods, forams, gastropods & echinoids - unconsolidated

Note - it appears likely that this shelly material is the remains after washing away all of what probably is a marl type matrix which, being soft & being drilled with seawater is all disolved before it reaches the surface

Note cement caving are quite common from 710 to 2100'

lt.gy. Calc-arenite, fine grained, containing many cemented shell grains & minor small shale grains. Calcareous cement.

lt.gy to white Sandstone. fine grained, qtzose, angular grains, poorly sorted, glauconitic. Glauconite as individual grains. Calcareous cement. Poor porosity & permeability due to the calcareous cement

Shell fragments - dominantly forams - of several species, bryzoans & badly broken pelecypods.

lt.gy to wh. Sandstone fine grained, highly qtzose, subangular grains, poorly sorted, glauconitic, calcareous cement.

Shell fragments as above but with abundant echinoid spines

Sandstone as above but with a trace of coarse unconsolidated qtz grains - subrounded.

gy Marl grey green, soft, slightly silty, highly calcareous.

gy.gr. Marl soft, slightly silty fossiliferous - some fragments contain abundant glauconite & are quite green in colour. It appears likely that this material forms the matrix of the shelly material

Marl a.a highly glauconitic
Displace seawater with mud wt 8.9.

gy.gr. Marl, soft, slightly silty, fossiliferous, some fragments have a high concentration of glauconite which gives a destinct green colour.

Shellfragments - bryzoans, echinoids & forams are highly abundant.

lt.gy. Sandstone, fine grained, poorly sorted, angular grains, highly qtzose, glauconitic. Trace of coarse unconsolidated grains, very low porosity & permiability

lt.gy Marl soft, gummy, silty, highly glauconitic (glauconite as both finely disseminated material & as destinct grains) fossiliferos highly calc.

Marl, a.a but very sandy - highly qtzose grains of poorly sorted angular ~~qt~~ material

NO RETURNS.

lt.gy. Marl soft gummy, contains quite abundant fine sand, silt, glauconite & shell fragments

wh. Sandstone, very fine to fine grained, firm, glauc. qtzose, pyritic, v. calc

tan Dolomite. v. glauc, trace shell fragments, hard. dull yellow min. fluor.

wh. Sandstone, qtzose, very coarse to fine grained, bimodal, unconsolidated, with abundant pyrite

lt.gy. Siltstone soft, marly, calc

ch.br. Shale very soft, gummy.

br Shale - brown, silty, soft, not so gummy.

lt/med gy. Siltstone soft glauconitic

tan Dolomite, very glauc, silty, sandy, dull mineral fluor

gy.wh Limestone, with glauconite, hard, indurated, micritic

tan Siltstone, glauc, sandy, calcareous, firm.

Siltst. with trace very fine grained to fine grained unconsolidated rounded qtz grains

lt.br-tan. Sandstone very fine grained, silty, consolidated, pyritic, sli. glauc. calc. poor P&P.

wh Sand - frosty white subang. to subrnded qtz.
Sandstone a.a

No Returns

tan/br Siltst. firm calc.
lt.br Sandstone v.f./f. grained. silty, sli. calc. firm, tight.

wh Sandstone with some ferruginous stained grains medium to very coarse, predominantly very coarse subang/subrounded, clean, good K & ϕ, no glauc, tr pyrite, sli tr black brittle coal.

Coal black platy

Sand - frosted wh. unconsol., f/v crse, subrnd/subang, poorly sorted, bimodal, qtz, w/ pyrite

Core# 1 Shale grey, hard, subfissile, sideritic bands near top.

gy Shale, soft. clayey, subfissile
dk.br Silty Sandstone hard, brittle, highly indurated, lithic, possibly glauconitic, poor sorted angular grains

lt.gy brown Siltstone, slightly sandy, tight, indurated dense lithic

lt.gr to wh Feldspathic claystone fairly common lithic grains ~~of~~ sand size, chloritic
gy.br Siltstone, sandy with abundant lithics
Red.br Lithic Sandstone hard - indurated - feldspar, qtz & lithics in a fine clayey matrix which is often chloritic, very low K & ϕ

Lithic Sandstone - red brown - fine to medium grained with some coarse fragments of fine lithics, very poorly sorted, extrememely immature, very low ϕ & K because of a fine clayey matrix - often chloritic

TD 5043 in Cretaceous sediments