450241

9287

AMOCO AUSTRALIA PETROLEUM COMPANY

COMPOSITE WELL LOG

PELICAN-5

CONFIDENTIAL
CLASS 1

Enclosure 3

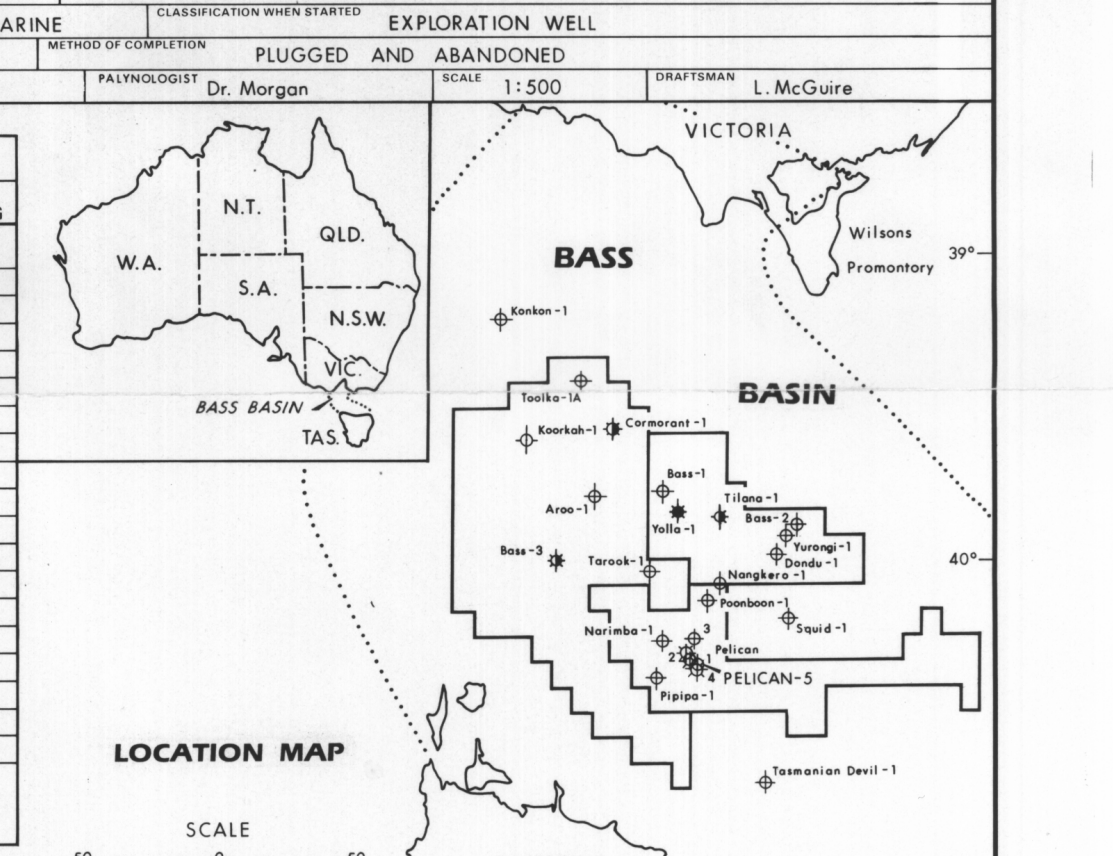
5 cm

WELL DATA

COORDINATES	LAT 40° 20' 43 · 472"S LONG 145° 51' 49 · 256"E	COUNTRY	AUSTRALIA	PERMIT	T/22 P, BASS BASIN
ELEVATION	SEA LEVEL	KELLY BUSHING	22·3 m. above sea level	WATER DEPTH	77 m
SPUD DATE	28 DECEMBER, 1985	COMPLETION DATE	2 MARCH, 1986		
TOTAL DAYS	109	TOTAL DEPTH	4267 m	PLUG BACK TOTAL DEPTH	
CASING	30" a 192m; 20" a 400·2m; 13 / " a 1753·8m; 9 / " a 2994·1m; 7" a 3647·2m; 5" a 4065·1m.				
RIG NAME	DIAMOND M EPOCH	RIG TYPE	SEMI - SUBMERSIBLE	OWNED BY	GLOBAL MARINE
CLASSIFICATION WHEN STARTED	EXPLORATION WELL	CLASSIFICATION AFTER COMPLETED		METHOD OF COMPLETION	PLUGGED AND ABANDONED
GEOLOGIST(S)	R.G. McCullough , G.M. Kjellgren.	PALEONTOLOGIST	Dr. Taylor	PALYNOLOGIST	Dr. Morgan
SCALE	1:500	DRAFTSMAN	L. McGuire		

LOGGING DATA

RUN No.	TYPE	DATES	SCALES 1:500	SCALES 1:200	FIRST READING	LAST READING
WIRELINE LOG AND SERVICES						
1/1	ISF-BHC-GR-SP-CAL	4/1/86	Yes	Yes	78 m	1773 m
2/2	ISF-SLS-MSFL-GR-SP	25/1/86	Yes	Yes	1750 m	3003·5 m
2/1	LDL-CNL-GR	"	Yes	Yes	"	"
2/1	HDT	"	No	Yes	"	"
2/1	CST	"			1800 m	3000 m
2/2	CCL-VDL-CBL-GR	"	Yes	Yes	1870 m	3021 m
3/3	ISF-SLS-MFSL-GR-CAL	9/2/86	Yes	Yes	2995 m	3684 m
3/1&2	LDL-CNL-GR	"	Yes	Yes	"	"
3/2	HDT	"	No	Yes	"	"
3/2	CST	"			3001·5 m	3617 m
3/2&3	RFT-SG	"			3021·5 m	3457·5 m
4/4	ISF-BHC-MFSL-GR	2/3/86	Yes	Yes	3647 m	4250 m
4/3	LDL-CNL-AMS-GR	"	Yes	Yes	"	4267 m
4/3	HDT	"	No	Yes	"	"
4/3	CST	"			3653 m	4255 m
4/1	WST	"			100 m	4267 m
4/3	RFT-SG-GR	"			3647 m	3902 m



LEGEND

LITHOLOGIC SYMBOLS

TERRIGENOUS CLASTICS
- ARKOSE
- BRECCIA
- CONGLOMERATE
- SANDSTONE
- SEDIMENTARY QUARTZITE
- CROSS BEDDED SANDSTONE
- CALCAREOUS SANDSTONE
- SHALY SANDSTONE
- CLAY
- SHALE
- CLAYSTONE
- GYPSIFEREOUS SHALE
- ARENACEOUS SHALE
- CALCAREOUS SHALE
- SILTSTONE
- CALCAREOUS SILTSTONE

CARBONATE ROCKS
- LIMESTONE
- MASSIVE or THICK BEDDED LIMESTONE
- CALCARENITE
- CALCIRUDITE
- LUTACEOUS CALCARENITE
- OOLITE and PISOLITE
- DOLOMITE
- DOLOMITE or PARTIALLY DOLOMITIZED LIMESTONE
- ARGILLACEOUS LIMESTONE
- ARENACEOUS LIMESTONE or SANDY LIMESTONE
- CHALK
- MARL

PRECIPITATES AND GELS
- CHERT
- ANHYDRITE
- GYPSUM
- SALT

CARBONACEOUS ROCKS
- COAL
- PEAT

METAMORPHIC ROCKS
- SCHIST
- GNEISS
- METAMORPHIC QUARTZITE
- MARBLE

IGNEOUS ROCKS
- BASEMENT (Undifferentiated)
- GRANITE and MISCELLANEOUS ACID PLUTONICS
- DEEP INTRUSIVES (Undifferentiated)
- DIKE, SILL
- EXTRUSIVE
- TUFF

FOSSIL SYMBOLS

alg	ALGAE	grap	GRAPTOLITES
amm	AMMONITES		INCERTAE SEDIS
blm	BELEMNITES	lbr (pely)	LAMELLIBRANCHS (PELECYPODS)
brach	BRACHIOPODS	megafoss	MEGAFOSSILS general
	BRACKISH WATER FOSSILS	microfoss	MICROFOSSILS general
bry	BRYOZOA	num	NUMMULITES
char	CHAROPHYTES	ost	OSTRACODS
cono	CONODONTS	oyst	OYSTERS
cor	CORALS	pely	PELECYPODS
crin	CRINOIDS	phos	PHOSPHATES (organic)
diat	DIATOMS	pls	PLANT REMAINS
ech	ECHINOIDS		POLLEN
F rem	FISH REMAINS	rad	RADIOLARIA
F sc	FISH SCALES		SALT WATER FOSSIL
forams	FORAMINIFERA in general		SHARK TEETH
	FORAMINIFERA larger		SHELL DEBRIS (coquina)
	FORAMINIFERA benthonic	spic	SPICULES
	FORAMINIFERA benthonic large		SPINES
	FORAMINIFERA pelagic		SPORES
foss	FOSSILS in general	strom	STROMATOPOROIDS
	FRESH WATER FOSSILS	tril	TRILOBITES
fus	FUSULINIDS	vrtb	VERTEBRATES
gast	GASTROPODS	wd, sil	WOOD SILICIFIED

MISCELLANEOUS SYMBOLS

auth qt	AUTHIGENIC QUARTZ		FAULTS
	CHERT		ORIENTED DIP
concr	CONCRETIONS	sil, concr	CONCRETIONS, SILICEOUS
calc concr	CONCRETION, CALCAREOUS		LIMONITE, HEMATITE
fer concr	CONCRETION, FERRUGINOUS	glauc	GLAUCONITE
pyr	PYRITE	sid	SIDERITE
	GAS SHOW		OIL SHOW

OPERATIONAL SYMBOLS

- ABNORMAL PRESSURE GRADIENTS
- ACIDIZING OR STIMULATION
- CASING SET
- CEMENT TOP BEHIND CASING (Temperature log)
- CEMENT TOP BEHIND CASING (Cement bond log)
- COMBINATION STRING
- CORE (Conventional)
- CORE (Diamond)
- CORE (Sidewall)
- CORE (Wire line)
- DRILLED WITHIN AN INTERVAL BEING CORED
- DRILL STEM TEST
- STAIN, FLUOR, CUT FLUOR, CRUSH CUT FLUOR
- P. POOR, F. FAIR, G. GOOD, E. EXCELLENT
- DRILL STEM TEST (Failed)
- FORMATION CONSOLIDATION (Plastic squeeze)
- FORMATION CONSOLIDATION (Gravel pack)
- TUBING PACKER
- LINER WITH INTERVAL AND DIAMETER
- PERFORATION DIAMETER, INTERVAL AND NUMBER
- PLUG (Bridge plug)
- PLUG (Cement plug)
- PLUGGED BACK T.D.
- PRODUCTION TEST OR COMPLETION DATA
- SQUEEZED PERFORATIONS (Number of stages, type and interval)

RFT / PSIG RFT SYMBOL

LITHOLOGICAL DESCRIPTION PALEONTOLOGY AND REMARKS

399 - 770 m (1309' - 2526')

BIOCALCARENITE WITH MINOR CALCILUTITE INCREASING BELOW 550M.

BIOCALCARENITE (80%) CRM-WH TO PALE GRY-YELL, M-V C GR (DOM C GR), DOM FRI, IN PT MOD HD, CONSISTS MAINLY OF FRAGS OF DOM BRYOZOANS, WITH BRACHIOPODS AND MOLLUSCS, (RUGOSE) CORALS AND TR SPONGE SPICULES AND FORAMS. COMPOSITE GRAINS SHOW 5-25% SPARRY CALCITE CMT, UP TO 50 10% NON-CALC CLY MATRIX.

CALCILUTITE (20%) PALE GRN-GRY, DOM MICROXTLN CALCITE AND CLY WITH VER ABUN FOSSIL FRAGS, UNCONSOL, V SFT.

770 - 850 m (2526' - 2789')

BIOCALCARENITE WITH MINOR CALCILUTITE, SANDSTONE AND CLAYSTONE.

BIOCALCARENITE (80-90%) AS ABOVE
SANDSTONE (10-20%) AS ABOVE
CLR - MLKY, V F GR, SUBANG, MOD SRT, FRI-MOD HD, TR PALE-DK GRN GLAUCONITE, OCC PATCHY (10%) LT BRN TO BRN-BLK ORGANIC STAIN, 10-15% WH CLY CMT, POOR (0-5%) VIS POR, TR PATCHY ORNG-GOLD MIN FLUOR; V FNT PALE BL-WH CRUSH CUT AND DESS RNG FLUOR WITH CLR RES.

CLAYSTONE PALE ORNG-BRN TO TAN, SFT-MED HD TR SILT, TR VF BLK ORGANIC SPECKS.

850-1350 m (2789' - 4429')

INTERBEDDED BIOCALCARENITE AND CALCAREOUS CLAYSTONE.

BIOCALCARENITE DESCRIPTION AS ABOVE.

CALCAREOUS CLAYSTONE.
-DK GRN-GRY, DOM V SFT, TR-ABUN (30% DECR WITH DEPTH) MICRITE IN CLY MATRIX. VAR (UP TO 40%) VF-C (DOM C) GR FOSSIL FRAGS (BRYOZOA, BIVALVES, CORALS, FORAMS, SPICULES) LOCALLY GRDG TO BIOMICRITE.

1350 - 1596 m (4429' - 5236')

CLAYSTONE INTERBEDDED WITH LIMESTONE AND SILTSTONE.

CLAYSTONE
DOM PALE BLU-GRY TO LT-MOD GRY, V SF-SFT, BLOCKY, SUB-FISS, TR-MOD CALC MATRIX DECR WITH DEPTH, RARE FOSSIL FRAGS, TR PY, GLAUCONITE.

LIMESTONE
-TAN TO ORNG-BRN, HD, BRITTLE, IRREG BLOCKY TO SUB-CONCH FRACT, MICROXTLN, VARIABLY DOLOMITIC AND SILICEOUS IN PART TR VF QTZ SAND, SLT IN PART.

SILTSTONE
-LT BRN TO BUFF, IN PT WH, GRDG IN PLACES TO VF SST, SUBANG, WELL SRT, VAR FRI TO MOD HD, TR V F SUBANG DK GRN GLAUCONITE, TR-MOD ABUN CLY MATRIX.
-VAR 10-20% LT BRN TO CRM-WH DOM CALC CMT AND VAR POOR-MOD 5-15% VIS POROS.

1596 - 1635 m (5236' - 5364')

INTERBEDDED CLAYSTONE, SANDSTONE, SILTSTONE WITH MINOR LIMESTONE.

CLAYSTONE - LT TO DK BRN, PALE BLU-GRY OR GRY-BRN, V SFT TO FIRM (DOM SFT), TR TO ABUN C SLT (GRDG TO CLY SLTST). UP TO 1% PY, TR - 15% CALC CMT AND MICRITIC? MATRIX. TR-MOD ABUN LT BRN TO DK BRN-BLK ORG MAT.

SILTSTONE AND V F SANDSTONE:
- DOM LT BRN, TAN, OCC CRM-WH, GEN GRDG TO DK BRN WITH DEPTH, C SLT TO V F GR SAND, SUB-ANG, MOD-WELL SRT, V FRI TO MOD HD (DOM FRI). TR V F SUBANG PALE TO DK GRN DETRITAL GLAUCONITE, - UP TO 15% CRM-WH CALC AND CLY CMT. 5-20% VIS POROS IN SST. TR V LT TRANSLUC PALE YEL-WH CUT FLUOR WITH V LT DISCONT PALE YEL-WH DES RNG FLUOR.

LIMESTONE TAN TO ORNG-BRN, HD, BRITTLE, IRREG BLOCKY T SUBCONCH FRACT, DOM MICROXTLN, VAR DOLOMITIC OR SILICEOUS MATRIX, IN PT TR-MOD ABJN V F GR SAND.

1635 - 1755 m (5364' - 5758')

DOMINANTLY CLAYSTONE INTERBEDDED WITH SILTSTONE AND MINOR LIMESTONE AND V F GR SANDSTONE. ROCKS AS DESCRIBED ABOVE, EXCEPT THAT CLAYSTONE GEN HARDER, DARKER AND MORE FISSILE WITH DEPTH, GRDG LOCALLY TO DK BRN-GRY SFT SH. CLAYSTONE/SH 55-75% 1635-1720M, 90% 1720-1755M.

1755 - 1806m (5758'- 5925')