AMOCO AUSTRALIA PETROLEUM COMPANY

COMPOSITE WELL LOG

XU 8630-2

KOORKAH-1

CONFIDENTIAL
CLASS 1

277170

OR_286

ENCLOSURE 3

WELL DATA

COORDINATES LATITUDE 39° 37' 57·24" S LONGITUDE 145° 09' 05·13" E	COUNTRY AUSTRALIA - TASMANIA	PERMIT T/18 P, BASS BASIN	
ELEVATION SEA LEVEL	KELLY BUSHING 22·3 m	WATER DEPTH 67·6 m	SPUD DATE NOVEMBER 27, 15:12 hr, 1985
COMPLETION DATE Plugged and Abandoned 22:45 hrs Dec 25/85	TOTAL DAYS FROM SPUD 28	TOTAL DEPTH 3148·9 m	PLUG BACK TOTAL DEPTH 128 m
CASING 30" @ 191 m, 20" @ 402 m, 13 3/8" @ 1587·4 m	RIG NAME EPOCH	RIG TYPE SEMI-SUBMERSIBLE	OWNED BY DIAMOND M
CLASSIFICATION WHEN STARTED EXPLORATORY WELL - WILDCAT	CLASSIFICATION AFTER COMPLETED DRY AND ABANDONED	METHOD OF COMPLETION PLUGGED AND ABANDONED	
GEOLOGIST(S) R.G. McCullough ; B.F. Wheeler	PALEONTOLOGIST Dr D.Taylor - Consultant	PALYNOLOGIST Dr R.Morgan - Consultant	SCALE 1:500
DRAFTSMAN R. Ransley			

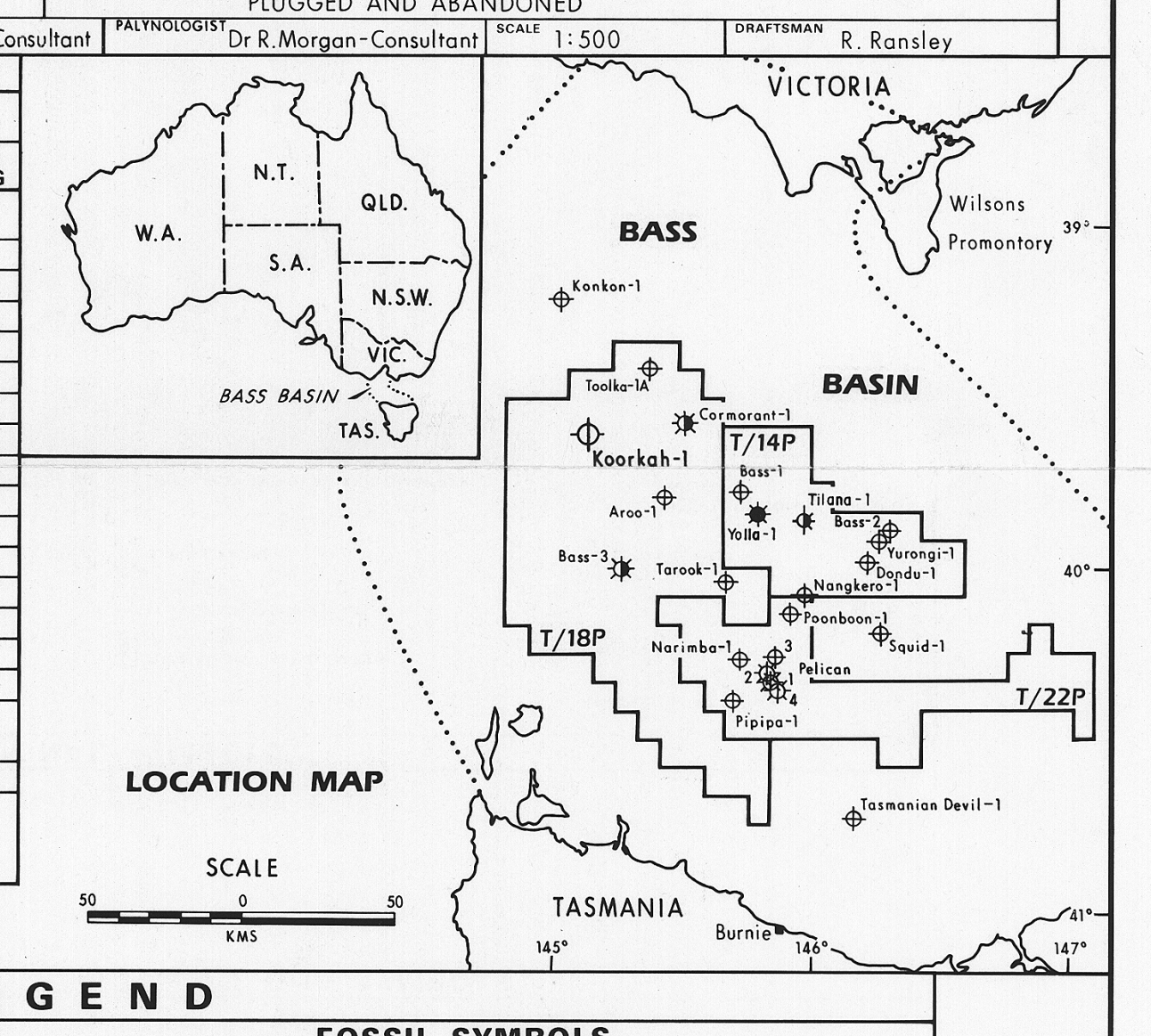
LOGGING DATA

WIRELINE LOG AND SERVICES

RUN No.	TYPE	DATES	SCALES 1.500	SCALES 1.200	FIRST READING	LAST READING
1	* ISF-BHC-GR-SP-CAL	DEC 06/85	NO	NO	1233·0 m	25·9 m
1	ISF-BHC-GR-SP-CAL	DEC 07/85	YES	YES	1593·0 m	25·9 m
2	ISF-BHC-GR-SP-CAL	DEC 22/85	YES	YES	3152·0 m	1589·0 m
2	LDL-CNL-GR-CAL	DEC 22/85	NO	NO	Failed	
2	LDL-CNL-GR-CAL	DEC 22/85	YES	YES	3153·0 m	1589·0 m
2	HDT	DEC 22/85	YES	YES	3153·0 m	1589·0 m
2	** CST	DEC 22/85	YES	YES	3140·1 m	1605·1 m
2	VST	DEC 23/85	YES	YES	3124·0 m	403·0 m

* Tool stopped on bridge @ 1233·0 m. Tool rerun after Wiper Trip.
** Shot 55, Recovered 51

5 cm



LOCATION MAP

L E G E N D

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

MISCELLANEOUS SYMBOLS

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

OPERATIONAL SYMBOLS

- ABNORMAL PRESSURE GRADIENTS
- ACIDIZING OR STIMULATION (800G 15% HCL)
- CASING SET (300SX 7" 4265")
- CEMENT TOP BEHIND CASING (Temperature log) (TL)
- CEMENT TOP BEHIND CASING (Cement bond log) (CBL)
- COMBINATION STRING (7" 5")
- CORE (Conventional) (C-1 NR)
- CORE (Diamond) (DC-1)
- CORE (Sidewall) (46 Sst P)
- CORE (Wire line) (WCL)
- STAIN
- FLUOR
- CUT FLUOR
- CRUSH CUT FLUOR
- P. POOR
- F. FAIR
- G. GOOD
- E. EXCELLENT
- DRILLED WITHIN AN INTERVAL BEING CORED
- DRILL STEM TEST (1830 1835)
- DRILL STEM TEST (Failed) (DST-2)
- FORMATION CONSOLIDATION (Plastic squeeze)
- FORMATION CONSOLIDATION (Gravel pack)
- TUBING PACKER
- LINER WITH INTERVAL AND DIAMETER (7" 5" Ft)
- INTERVAL AND NUMBER (2131 2151)
- PLUG (Bridge plug)
- PLUG (Cement plug)
- PLUGGED BACK T.D. (7177")
- PRODUCTION TEST OR COMPLETION DATA
- SQUEEZED PERFORATIONS (Number of stages, type and interval) (2131 2151)

440 - 700 m (1476' - 2297')

BIOCALCARENITE: LT GY TO GRN-GY, CRMY-WHT WITH PNK AND TAN, DOM UNCONSOL FOSS FRAGS AND DEBRIS. FOSS DOM BRYAZOA, SPICULES, CORAL FRAGS, SHELL FRAGS AND FORAMS. C GR FOSS AT TOP DECREASING IN GR SIZE WITH DEPTH ALONG WITH INCREASE IN CL CONTENT. ABUN LT TO DK GRN GLAUC SPHEROIDS AND BLK NON-CALC FORAMS. OCC PY AGGREGATES.

700 - 800 m (2297' - 2625')

CALCILUTITE: CONTINUED FROM ABOVE WITH DECREASE IN FOSS CONTENT. DOM LT GRN-GY MICROXTLN CALC AND CL WITH 15-30% FOSS DEBRIS. CL CONTENT 15-20% AT TOP TO 50% AT 800M.

800 - 1200 m (2756' - 3937')

CLST: DOM LT GY TO GRN-GY OCC GY-WHT, M GY AND TAN, ALL SFT TO V SFT AND DRLG DISP (GUMBO TO 1020M WHERE IT BEGINS TO FIRM UP), FNT FISS DEVELOPED BELOW 1050, CALC TO V CALC (15-30%) AS MICROXTLN CALCITE MIXED WITH CLY AND AS ABUN MICROFOSS (DOM FORAMS) AND MICRO FOSS FRAGS, BECOMES OCC SLTY BELOW 960M, OCC LOOSE F TO M GR ANG CLR QTZ, ABUN M TO DK GRN GLAUC PEL, ABUN V F CLR MICA, MOD ABUN PY NODULES AND BLEBS. CLST BECOMES SLIGHTLY DKER GY BELOW 1050M.

SST: TR AT 910M, LT TAN, V F GR, ANG, W SRT, CMT WITH CALC, MOD FRI, 5% VIS POR.

1200 - 1410 m (3937' - 4626')

CLST (95-100%): LT TO M GY TO BRN GRY BECOMING DKER AND MORE BRN WITH DEPTH (ESP BELOW 1250M: 70-80%M TO DK BRN BELOW 1270M), ALL V SFT TO MOD SFT WITH SL INC IN FIRMNESS WITH DEPTH, MOD DRLG DISP. DOM BLKY TO SL FISS WITH OCC BLADE-LIKE FRAG, V CALC (30%) AT 1200M BUT STEADILY DECREASING IN CALC CONTENT WITH DEPTH TO APPROX 10% AT 1390M, OCC SLTY (UP TO 15%) WITH V THIN LT RD-TAN CLYEY SLST STRINGERS BETWEEN 1220-30M. ABUN MICROFOSS AND FRAGS DECREASING WITH DEPTH, MOD ABUN M TO DK GRN GLAUC PEL EMBEDDED AND AS LOOSE GRS.

LMST (0-5%: BEGINS BELOW 1250M): LT ORNG-TAN, HD, BRITT, SUB-CONC TO BLKY FRACT. DOL AND SILIC IN PLACES, GRADING LOCALLY TO DOL, CONSISTENT PERCENT FROM 1250-1410 PROBABLY AS THIN INTERBEDS.

1410 - 1460 m (4625' - 4789')

MDST: DK BRN TO LT GY, SUB-FISS TO BLKY, VAR SLTY UP TO 10% SST, FOSS FRAGS UP TO 15%, COMM TO ABUN MICROFOSS, MIC MIC TO MIC AS FLAKES ON LAMIN PLANES. UP TO 15% CALC, 10% GLAU DK GRN.

CHERT: (5%) ORNG-TAN, HD, BRITT BLOCKY TO SUB-CONC FRACT, LOCALLY GRADES TO SILIC LMST/DOL. LMST; MICROXTL. INTERPRETED AS THIN INTERBEDS.

SST: MINOR THIN INTERBEDS OF WELL STD, V FRIABLE VF GR SST AS LOOSE, CLEAR, ANG TO SUB-RND QUARTZ GR.
NODULAR PYRITE (1-2%) OCCURS IN ALL SAMPLES. BULK SAMPLES AT 1460M SHOWED TRACE PALE TRANSP TO SL MILKY BLU-WHT CRUSH CUT FLUOR WITH PALE-MOD BRT DISCONT PALE YELL-BLU WHT DESS RNG FLUOR.

1460 - 1535 m (4789' - 5035')

MDST: BRN TO DK GY, SUB-FISS. BULK FLUOR AT 1490M; TR PALE TRANSP TO SL MILKY BLU-WHT CRUSH CUT FLOUR, PALE YELL-BLU WHT DESS RING, INTERBEDDED WITH SST: V F GR MOD TO WELL SRT, A-SA, FRIABLE, MOD TO GOOD VIS EFF POR. AT 1525-1530M; V SLOW, DULL, TRANSL V PALE BLU WHT CRUSH CUT FLOUR. PALE YELL-WHT DES RING.

1535 - 1600 m (5035' - 5250')

LMST: ORNG-TAN, HD, BRITT, BLKY. MDST: LT BRN TO RD-BLK, SUB-FISS, SL CARB, GLAU, MIC, PY 1-2%. SST: V F GR, MOD SRT, A-SA, FRIABLE, TR CALC CMT. EST VIS POR 10-15%. SST: PATCHY 10% PALE YELL GOLD FLOUR, V SLOW TRANSL TO SL CLOUDY DULL BLU WHT TINGED WITH YELL DESS RING.

1600 - 1610 m (5250' - 5282')

CLST (100%): M TO DK RD-BRN OCC MOTTLED WITH GY-WHT AND GRDNG TO LT TO M GY, MOD HD TO HD, IRREG FRAC, OCC BANDED AND SILC, VAR SNDY FROM 0-25% (LT GY MORE SNDY) OF DOM F TO M GR, SR CLR TO OCC MLKY QTZ, OCC M GRN EMBDD GLAUC, OCC MICROFOSS AND MICROFOSS FRAGS, ABUN V F DESS PY WITH OCC PY AGG AND TUBES.

1610 - 1621 m (5282' - 5319')

SST (100% WITH POSS THIN (LESS THAN .05M) INTBD CLST): EXISTING ALMOST WHOLLY OF UNCONSOL FREE QTZ: DOM M GR OCC C GR WITH TR F GR, DOM WR TO OCC SA, 5% LT TAN TO WHT CLY MTX, RARE FRAG MOD HD. WHT CMT WITH CLR CALC AND SILC OVERGRWTHS: VIS POR PROB 20-30% BUT RARE FRAG LESS THAN 10% INDICATING SELECTIVE DIAGENESIS.

1621 - 1664 m (5321' - 5460')

SST: M GR (RNG F TO C) SR-R, MOD SRT, CL TO OCC SL MILKY, ARGILL CEMENT/MATRIX. EST POR 20-30% FOR UNCOL, 10% FOR CMTED SST. ORG FLAKES COMM, OCC GLAUC, WHT MICA UP TO 10%, CLST: DK BRN TO RD-BLK, SUB-FISS, CARB, MIC- MIC, PYRITIC (5-20%) AS DESS GR AND BURROW FILLED TUBES, OCC GLAUC, GRDS TO ARGILL F SST WITH VAR SILC CMT, TR CALC CMT. DOL: LT GY, MICROXTLN, HD, BRITT, SUB-CONC FRAC, PYR 5-10% AS DESS BLEBS, AND GR, PROM GOLD MIN FLUOR. LMST: TAN, CHERTY, HD, BRITT FLAKY FRAGS.