ENCL. 33 OR-0358A 460155

EXLOG

COMPANY AMOCO AUSTRALIA
WELL PELICAN No.5
FIELD PELICAN
REGION BASS BASIN
COORDINATES LAT 40° 20' 43·58"S
LONG 145° 51' 49·21"E
API WELL INDEX NO.
SPUD DATE 28TH DECEMBER 1985
ELEVATION RKB - SEABED 99·7M
MSL - SEABED 78·3M
TOTAL DEPTH 4267M
CONTRACTOR DIAMOND M
RIG / TYPE EPOCH/ SEMISUB

LOG INTERVAL
DEPTH FROM 411M TO 4267M
DATE FROM 31/12/85 TO 2/3/86
SCALE 1:500 UNIT 216
LOG PREPARED BY HODGSON: REEVE: EVANS: ELLIOTT: NGUYEN: HOLLWORTH

HOLE SIZE

36"	TO 195M		12¼"	TO 3002M
26"	TO 411M		8½"	TO 3647M
17½"	TO 1776M		6"	TO 4267M

CASING RECORD

30"	AT 193M	9⅝"	AT 2994M
20"	AT 400M	7"	AT 3647M
13⅜"	AT 1754M	5"	AT 4065M

MUD TYPES

SEAWATER TO 411M
SEAWATER/GEL-STARCH TO 1776M
FRESHWATER DISPERSED TO 4267M

LITHOLOGY SYMBOLS

LIMESTONE, DOLOMITE, ANHYDRITE AND GYPSUM, HALITE, COAL AND LIGNITE, CLAY, SHALE, SILT AND SILTSTONE, SILTY SANDSTONE, SAND AND SANDSTONE, CONGLOMERATE, CHERT, IGNEOUS UNDIFFERENTIATED, VOLCANIC

EXLOG SUITE

FORMATION EVALUATION LOG ☒
PRESSURE EVALUATION LOG ☒
DRILLING DATA PRESSURE LOG ☒
☐
WIRELINE DATA PRESSURE LOG ☒
TEMPERATURE DATA LOG ☒
GEMDAS COMPUTER LOGS ☐
☐

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY PPG
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE— API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS — %
LAT	LOGGED AFTER TRIP	SD	SAND — %
BG	BACKGROUND GAS	S	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS	HP	HYDROSTATIC PRESSURE
SWG	SWAB GAS	PP	PORE PRESSURE
	CASING SEAT		WIRELINE LOG RUN
	CORED INTERVAL		TEST INTERVAL
	NO RECOVERY	+	WIRELINE TEST
	SIDEWALL CORE		

GAS — 100 Total gas units is equivalent to 2% methane-in-air.
OIL — Based on live oil in unwashed cuttings and percentage staining of washed cuttings.

FORMATION EVALUATION LOG

5 cm

LITHOLOGY DESCRIPTION AND REMARKS

RKB
21·4M
MSL
78·3M
SEABED

DRILLED 36" HOLE TO 195M. SET 30" CASING AT 193·2M.

DEV = ½° AT 195M

DRILLED 26" HOLE TO 411·5M. SET 20" CASING AT 400.2M.

DEV = ½ AT 411.5M

DRILLED AHEAD WITH 17½" HOLE WITH SEAWATER GELL STARCH MUD.

411-530M
BIOCALCARENITE, WH-OFF WH-TR GRN GY WH, FRM-LSE, M-C, SBANG, P SRT, COM FOSS FRAGS, BRIOZ, FORAM, SPONGE SPICS, COM CALC CMT, TR-COM WH-GY WH ARG MTX, TR DULL YELL MIN FLOR

530-650M,
BIOCALCARENITE, WH-OFF WH-LT GY WH, FRM-SFT, M-C, P SRT, SBANG, COM FOSS FRAGS, WH-GY WH ARG MTX INCR W/ DPTH, COM CALC CMT, TR-COM MIN FLOR, GRDNG TO-
CALCILUTITE, WH-OFF WH-LT GY WH, SFT, DISP, COM CALC CMT, TR-COM FOSS FRAGS, TR PYR, AMORPH

CARBIDE 6U AT 615M
THEOR STKS 4100
ADJUST STKS 4100
MUD VISC 45

620-650M
CALCARENITE, OFF WH-WH-LT GY WH, SFT-FRM, OCC HD FRAGS, F-M-C, DOM M, SBANG, P SRT, OCC FOSS FRAG, COM CALC MTX, TR-COM WH ARG MTX, MOD-POOR VIS POR, TR-COM DULL GRN-YELL MIN FLOR

650-710M
CALCARENITE, OFF WH-WH-GY WH, F-M-C, SBANG, P SRT, CALC CMT, TR-COM ARG MTX, TR FOSS FRAGS, TR-COM GLAUC, SFT-DISP, COM HD FRAGS, P VIS POR, TR-COM DULL YELL GRN MIN FLOR

DEV = 0° AT 672M

710-770M
CALCARENITE GRDNG TO CALCILUTITE, OFF WH-LT GY WH, F GRN, OCC M, SBANG, P SRT, CALC CMT, TR-COM ARG MTX, COM GLAUC, TR-COM, P VIS POR, SFT-FRM, COM DISP, TR HD AGGS, TR-COM DULL YELL GRN MIN FLOR.

770-780M
CALCILUTITE, DOM A/A, W/TR-COM FOSS FRAGS, W/V MNR
CLAYSTONE, DK BRN-DK BRN GY, SLTY IN PT, MIC MICA, NON CALC, FRM-MOD HD, BLKY-SBFIS
780-846M
BIOCALCARENITE, OFF WH-LT GY WH, M-C, SBANG, P SRT, CALC CMT, TR ARG MTX, COM FOSS FRAGS-FORAM, SPNG SPICS, CORAL, P-MOD INF VIS POR, TR-COM DULL YELL-MIN FLOR

846-870M
BIOCALCARENITE, A/A, W/V MNR
CLAYSTONE, LT GY-MD BRN, SLTY IN PT, NON CALC, FRM, BLKY

870-960M
BIOCALCARENITE, OFF WH-LT GY, C GR, ANG, P CMT, P SRTD, ABNT LSE FOSS FRAGS, COM FORAM, CORAL, BRYZ, OCC ECH SPINES, ARG IN PT, PR INF POR
CLAYSTONE, M GRN GY-M GY, N CALC-OCC V CALC, COM GLAUC, TR PYR NOD, SFT-VSFT, LAM

DEV = 0° AT 948M

960-990M
BIOCALCARENITE, OFF WH-LT GY WH, M-C, DOM C, ANG, P SRT, CALC CMT, TR-COM WH ARG MTX, ABNT LSE FOSS FRAGS, COM FORAM, CORAL, SPNG SPIC, PR INF VIS POR
CLAYSTONE, LT GY-GRN GY, TR-COM CALC LAM, COM NON CALC, COM GLAUC, SFT-V SFT, COM DISP, AMORPH

990-1060M
BIOCALCARENITE, DOM A/A, W/INCR
CLAYSTONE, LT-MD GY-GY GRN, COM CALC LAM, COM NON CALC, MIC MICA IN PT, SFT-FRM IN PT, BLKY

1060-1140M
MASSIVE CLAYSTONE, LT-MD GY-GY GRN, TR-COM CALC FLECKS/LAM, OCC-COM NON CALC, MIC MICA IN PT, SFT-FRM, BLKY, GLAU

1140-1200M,
CLAYSTONE, LT-MD GY-GY GRN, COM CALC LAM/FLECKS, TR-COM INTBDD FOSS FRAGS, MIC MICA PT, SFT-FRM, BLKY, GLAU
BIOCALCARENITE, OFF WH-GY WH, M-C, P SRT, ANG-SBANG, CALC CMT, TR-COM ARG MTX, COM FOSS FRAGS, SFT-FRM, COM FRI, PR INF VIS POR

CARBIDE 8U AT 1187M
THEOR STK 10040
ADJUST STKS 10300
MUD VISC 45

1200-1280M
CLAYSTONE, M GRN GY-GY CALC IN PT, GLAUC, COM SHELL FRAGS, TR PYR NOD, SFT-FIRM, LAM INTBDD W/
BIOCALCARENITE, OFF WH-WH-LT GY-GRN, M-C GR, ANG, MOD SRTD, PR CALC CMT, COMM CLY, COM FOS FRAGS, FORAMS BRYZ, CORAL, ECH SPINE RR GAST

DEV = 2° N35E AT 1225M

W 9.3, V 46, F 13.5, FC 2, PH 11.4, PV 9, YP 20, SD 0.2, SOL 6.0 CL 8500, OIL 0, HP 1943PSI, ECD 9.4PPG, FP 1817PSI, BIT PRESS LOSS 956PSI

1280-1340M
BIOCALCARENITE, OFF WH-WH-GRN-LT GY, C-M GR, OCC F GR, P SRTD, ANG-SBRND, MOD CALC CMT, COM CLY, FRI, COM FOSS FRAGS, BRYZ, FORAMS, CORAL, OCC ECH SPINE, TR INF POR,
CLAYSTONE, M GRN GY-GY, CALC IN PT, GLAUC FIRM-SFT, COM FOSS FRAGS, LAM, COM PYR NOD

1340-1400M
CLAYSTONE, GRN GY-GY-LT BRN, CALC IN PT, V SFT-SFT, GLAUC, COM FOSS FRAGS
BIOCALCARENITE, A/A

5 cm

DEV = ¾° AT 1400M

1400-1420
CLAYSTONE, LT-MD GY-MD BRN, SLTY IN PT, CALC IN PT, TR CARB FLECKS, TR GLAUC, TR PYR, SFT-MOD FRM, BLKY

1420-1450M
CLAYSTONE, DOM A/A, W/MNR
BIOCALCARENITE, OFF WH-WH, C, ANG, P SRT, COM CALC CMT, TR ARG MTX, COM FOSS FRAGS, P INF VIS POR, W/V MNR
DOLOMITE, LT-MD BRN-YELL BRN, MICROXLLN, MD-V HD, BLKY

1450-1550M
MASSIVE CLAYSTONE, LT MD GY-MD BRN, SLTY IN PT, CALC IN PT, MIC-MICA, TR GLAUC, TR PYR, TR CARB MAT, SFT-FRM, BLKY, W/RR
DOLOMITE, BRN-YELL BRN, CHERTY IN PT, MICROXLLN, HD-V HD, BLKY, ARG IN PT

DEV = 1° AT 1537M
S63E

W 9.3, V 49, F 11.6, FC 2, PH 11.3, PV 10, YP 16, SD 0.1, SOL 7.0 CL 5800, OIL 0, HP 2439PSI, ECD 9.34PPG, FP 2282PSI, BIT PRESS LOSS 1068PSI

1550-1610M
CLAYSTONE, LT GY-GRN GY, OCC LT BRN, SLTY IN PT, CALC IN PT, MIC-MIC, TR-COM GLAUC, ABT PYR NOD, TR CARB MAT, COM-ABNT FOSS FRAGS, FORAM, BRYZ, CORAL, ECH SPINE, PELY, LAM, SFT-FIRM
DOLOMITE, AS ABOVE
SILTSTONE, M-DK BRN, ARG IN PT, MIC-MIC IN PT, TR-COM CALC CMT, TR V F SD, CARB IN PT LAM, SFT-FIRM

CARBIDE 9U AT 1610M
THEOR STKS 12670
ADJUST 11790
MUD VISC 50

1610-1645M
SANDSTONE, LT-MOD BRN V F-OCC F GR, SBANG-RND, MOD WELL SRTD, TR CALC CMT, COM ABNT BRN CLY MTX, TR GLAUC AND LITHIC GRNS, NIL-V PR VIS POR
CLAYSTONE, LT GY-MOD BRN, V SFT, DISPERSIVE, MOD CALC IN PT, GD TR PY, GD TR FORAMS, BRY AND BROKEN SHELL FRAG
SILTSTONE, MOD-DK BRN, SFT-FRM, MOD CALC IN PT, TR COM V F QTZ GR TR LITHICS, GD TR PY, MASSIVE-SBFISS

1645-1730M
SILTSTONE, MOD-DK BRN, MOD CALC, TR-COM VF QTZ GRNS, CARB IN PT, TR LITH FRAGS, MIC-MICA, TR PYR, SFT-FRM, BLKY
CLAYSTONE, LT-MD GY, CALC IN PT, TR SLTY, TR-COM FOSS FRAGS, SFT-FRM, AMORPH-BLKY

W 9.5, V 39, F 17.5, FC 2, PH 9.0, PV 6, YP 11, SD TR, SOL 8.0, CL 13500, OIL 0, HP 2879PSI, ECD 9.52PPG, FP 2636PSI, BIT PRESS LOSS 1136PSI

1730-1753M
MASSIVE SILTSTONE, MD-DK BRN, OCC LT GY BRN, CALC IN PT, ARG IN PT, TR LITH FRAGS, MIC-MICA, TR PYR, SFT-FRM, AMORPH-BLKY, W/V MNR
CLAYSTONE, LT-MD GY, CALC, TR SLTY, TR FOSS FRAGS, SFT-FRM, AMORPH
1753-1787M
SANDSTONE, OFF WH-LT YELL BRN, VF-F, SBANG-SBRND, OCC RND, MOD SRT, CALC CMT, ARG MTX COM GLAUC, TR LITH FRAGS, NIL VIS POR
SILTSTONE, A/A.

RUN WIRELINE LOGS: ISF-BHC-GR-CAL-SP

SET 13⅜" CASING AT 1754M. DRILL AHEAD WITH 12¼" BIT

CLAYSTONE, V DK BRN, FRM
1787-1804M
SANDSTONE, GRN WH, V F GR, SBANG-SBRND, MOD SRT, SFT, COM GLAUC, NIL POR

1804-1812M
SANDSTONE, CLR, M-C GR, OCC CONGLOM, MOD WELL SRT, ANG-SBRND, GD TR CLYMTX, TR SIL AND PY CMT, TR QTZ OVERGROWTHS, TR LITH AND CARBONAC GR, FRI FAIR-GOOD POR, NO FLOR
1812-1888M
SANDSTONE, F-M GR, WH-CLR, MOD SRT, SBANG, TR SIL CMT, GD TR ARG MTX, TR CARB DETRITUS FRIABLE-OCC HD, NIL-FAIR POR, NO FLOR
SILTSTONE, LT-MOD DK GY BRN, SFT-OCC MOD HD, MICR MICA IN PT, TR-OCC COM V F QTZ GR, GD TR CARB FLKS, TR DISEM PY, BLKY-OCC SBFIS
COAL, BLK, SBVIT, SBBLKY, SBCONCH FRAC, SILTY IN PT

DEV = 0° AT 1888M

1888-1917M,
SANDSTONE, OFF WH, TRANSL, M GR, SCM F GR MOD SRT, SBRD, MOD WK SIL CMT, OCC HD WH DOL MTX, COM LSE, GD INF POR NO FLUOR
COAL, BLK, SBVIT, SBCONC FRAC, PLTY IN PT, SBLKY SLTY,
SILTSTONE, GRY-OFF WH ARG IN PT, AREN, TR CARB MAT, PYR, GRDG TO VF SDST, SBBKLY

MUD DATA AT 1946M,
W 9·3, V 42, F 6·6, FC 1, PV 11, YP 10, PH 11·8, SD TR, SOL 5·5, CL 5100, OIL 0, HYD P 3080PSI, ECD 9·4PPG, PP 8·7PPG, BIT PRESS LOSS 2190PSI

1917-1954M,
SANDSTONE, OFF WH, TRNSL, F AND M GR, SBRD MOD SRT, OCC F GR AGG W/ V HD WH DOL MTX, WK SIL CMT, COM LSE, MOD INF POR, POR VIS POR, NO FLUOR
SILTSTONE, DK-LT GRY, OFF WH, AREN, HD, LAM IN PT, CARB MAT, SBBLKY -SBFIS

1954-2011M
SANDSTONE, OFF WH-CLR M-C GR, MOD SRT, SBANG TO SBRND, COM PY CMT, COM ARG MTX, FRIABLE TO LSE, NIL POR, NO FLOR
SILTSTONE, V DK BRN, FRM-OCC HD, GD TR PY, TR-OCC COM CARB FLKS AND DETRITUS, TR V F QTZ GR, BLKY-SBFIS
CLAYSTONE, V LT BRN-M BRN, V SFT-OCC FRM, DISPERSIVE, TR CARB FLKS, TR V F QTZ GR, TR DISEM PY
COAL, V DK GY-BLK, SBVIT, BLKY-OCC PLATY, COM SBCONCH FRAC, TR PY LAMINAE

THE COAL HAS A V WEAK DULL YEL-GRN CRUSH CUT FLOR

2011-2085M
SANDSTONE, OFF WH-LT BRN, V F-F, OCC MOD C, FRI-MOD HD, SBANG-SBRND, POORLY SRT, GD TR SIL CMT, TR PY CMT TR-OCC COM WH CLY MTX, NIL-COM LITHIC GR AND CARB DETRITUS NIL-V POOR VIS POR, NO FLOR
SILTSTONE, LT-DK BRN SFT-FRM, BLKY-OCC SBFIS, TR-COM V F QTZ GR, GD TR-COM CARB FLKS AND LAMINAE, TR DISEM PY, INTER LAM WITH AND GRADING IN PT TO SANDSTONE
CLAYSTONE, LT GY-MOD BRN GY, V SFT-OCC FRM DISPERSIVE, SLTY IN PT, GD TR DISEM PY, TR CARB FLKS, TR V F QTZ GR
COAL, A/A
2085-2134M
SANDSTONE, OFF WH-CLR V F-F-C GR, DOM F, MOD SRT, SBANG-SBRND, TR PY CMT, GD TR ARG MTX TR CARD FLKS, POOR POR, NO FLOR, LAMINATED WITH SLTST
SILTSTONE, A/A
CLAYSTONE, A/A
COAL, BLK, SBVIT, AMORPH CONC FRAC, MD-V HD, BLKY-SBBLKY

MUD DATA AT 2117M,
W 9·2, V 45, F 5·1, FC 1, PV 12, YP 11, PH 11·8, SD TR, SOL 5·8, CL 5000, OIL 0, HYD P 3317PSI, ECD 9·4PPG, PP 8·7PPG, BIT PRESS LOSS 1950PSI

CARBIDE 1U AT 2120M
THEOR STRKS 7590
ADJUST STRKS 7933
MUD VISC 52

2134-2164M,
SANDSTONE, OFF WH-CLR V F TO F GR, OCC M TO C GR, MOD SRT, SBANG-SBRND, GD TR SIL CMT GD TR WH CLY MTX, OCC CARB FLKS AND LITHIC FRAGS, FRIABLE-OCC HD NIL POR, NO FLOR
SILTSTONE, LT-MED DK BRN, SFT-OCC MOD HD, TR-COM CLY MTX, TR-TR-COM V F-M QTZ GR, GD TR-COM CARB FLKS AND LAM, TR PY, F INTRLAM W/ SST
CLAYSTONE, V LT GY BRN-LT BRN, FRM-OCC MOD HD AND STKY, DISP IN PT, TR-COM SILT AND V F QTZ GR, TR CARB FLKS GRAD IN PT TO SLTST
2164-2211M,
SANDSTONE, OFF-WH TO V LT BRN GY, V F-F, OCC M-C, SBRND, MOD SRT TR-OCC COM WH CLY MTX TR-OCC COM SIL CMT, TR DOL CMT, TR CARB DTR, TR LIT GR, NIL-V PR POR, INTRLAM W/ AND GRAD TO
SILTSTONE, A/A SCM SLI DOL IN PT, GRAD TO