OR-286

CLASS II

EXLOG

ENCLOSURE 4

COMPANY AMOCO AUSTRALIA
WELL KOORKAH #1
FIELD WILDCAT
REGION BASS BASIN
COORDINATES LAT : 39° 37' 54·24" S
LONG:145° 09' 05·13" E
API WELL INDEX NO.
SPUD DATE 15:12HRS NOV 27TH 1985
ELEVATION RT-MSL 22·3M
MSL-SEABED 67·6M
TOTAL DEPTH 3149M
CONTRACTOR DIAMOND M DRILLING Co.
RIG / TYPE DIAMOND M EPOCH/SEMI SUB

LOG INTERVAL
DEPTH FROM 402M TO 3149M
DATE FROM 1/12/85 TO 21/12/85
SCALE 1:500 UNIT 216
LOG PREPARED BY REEVE EVANS
HODGSON

HOLE SIZE

36" TO 192M		12¼" TO 3149M
26" TO 415·4M		TO
17½" TO 1599M		TO

CASING RECORD

30" AT 190M	AT
20" AT 402M	AT
13⅜" AT 1587·5M	AT

MUD TYPES

SEA-WATER/GEL PILLS TO 402M
FRESH-WATER GEL TO 1599M
FRESH-WATER/LSND/DFCL TO 3149M

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, VOLCANICS

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	CL	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS	FP	FORMATION PRES
SWG	SWAB GAS	HP	HYDROSTATIC PRESSURE

CASING SEAT
CORED INTERVAL
NO RECOVERY
SIDEWALL CORE
WIRELINE LOG RUN
TEST INTERVAL
WIRELINE TEST

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.

5 cm

FORMATION EVALUATION LOG

LITHOLOGY DESCRIPTION AND REMARKS

RKB
22·3M
MSL
67·6M
SEABED

DRILLED 36" HOLE TO 192M. SET 30" CASING AT 190M.

DRILLED 26" HOLE TO 414·5M. SET 20" CASING AT 402M.

DEV = 1° AT 405M

DRILLED 17½" HOLE WITH SEAWATER GEL-LIGNOSULFONATE MUD.

420–510M
CALCARENITE, WH-OFF WH, OCC V LT GY, FRM-LSE, M-C, DOM M, SBANG, P SRT, COM FOSS FRAGS, COM CALC CMT, TR-COM ARG MTX, MOD VIS POR, NO FLOR.

W 8·9, V 59, F 4·3, FC 1, PH 11·7, PV 14, YP 22, SD 0, SOL 3, CL 2·5K, OIL 0, HP 620 PSI, ECD 9 PPG, FP 8·7 PPG, BIT PRESS LOSS 1360 PSI

510–600M,
CALCARENITE, OFF WH-LT GRY, FRM-LSE, M GR, OCC C GR, SBANG, MOD SRT, OCC FOSS FRAG, COM WK-MOD STRNG CALC CMT, OCC ARG MTX, MOD VIS POR, MNR DULL YELLOW ORNG MNRL FLUOR

DEV = ½° AT 559M

600–650M,
CALCARENITE, PALE GRY, OCC WH, M-C GR, P SRT, SBANG, P-MOD SRT, COM GRY ARG MTX, MOD WK CALC CMT, V COM FOSS FRAG, P-MOD VIS POR, NO FLUOR

650–740M
CALCARENITE, OFF WH, LT GRY, FRM-OCC EASILY FRI, M-OCC C GR, P SRT, OCC-COM GRY ARG MTX, MOD CALC CMT, ABNT FOSS FRAG, P-MOD VIS POR, NO FLUOR
CALCILUTITE, GRY, OCC LT GRN GRY, V SFT, STKY DISP IN PT, BLKY

DEV = ½° AT 716M

NO RETURNS DUE TO BLOCKED FLOWLINE.

GUMBO CONTINUALLY BLOCKING FLOWLINE AND POSSUMBELLY

NO GAS READINGS: GAS TRAP REMOVED FROM POSSUMBELLY.

770–840M
CALCILUTITE, LT-MD GY, OCC OFF WH, COM CALC CMT, COM ARG MTX, SFT, V DISP, COM M-C OFF WH-WH CALC FOSS FRAG AMORPH.

MUD DATA 783 M
W 9·1, V 41, F 4·2, FC 1, PH 11·1, PV 8, YP 11, SD TR, SOL 5, CL 1·5K, OIL 0, HP 1214 PSI, ECD 9·5 PPG, FP 8·7 PPG, BIT PRESS LOSS 1400 PSI

840–883M
CALCILUTITE, A/A.
CLAYSTONE, LT-MD GY, CALC IN PT, COM FOSS INCLS, SFT, V DISP, AMORPH, STICKY.

DEV = ½° AT 871M

880–950M,
CALCILUTITE, LT-MD GY, CALC CMT, COM ARG MTX, SFT, V DISP, COM FOSS FRAGS, AMORPH, GRDNG TO CLAYSTONE, LT-MD GY, CALC IN PT, V SFT, DISP TR-COM FOSS FRAGS, AMORPH

GAS TRAP BYPASSED

950–1040M,
CLAYSTONE, DOM AS ABV, V CALC, STKY
CALCARENITE, AS ABOVE
SILTSTONE, LT-DK GRY, COM ARG, AREN IN PT, V CALC IN PT, FRM-HD, OCC SFT, PYR, BLKY

GAS-TRAP BYPASSED

DEV = 1¼° AT 1042M

1040–1120M
CLAYSTONE, GRY, GRN GRY, DISP, V CALC, COM FOSS FRAG, PYR, TR GLAU, BLKY, GRDG TO:
SILTSTONE, GRY, GRN GRY, SFT-FRM, CALC IN PT, RR AREN, PYR, TR GLAU, FOSS FRAC, COM CLYEY, BLKY

GAS TRAP BYPASSED

1120–1280M,
CLAYSTONE, MD-DK GY-GY GRN, CALC IN PT, AREN IN PT, SFT, COM DISP, TR-COM FOSS, TR PYR, TR GLAUC, AMORPH-BLKY
SILTSTONE, LT-MD GY, OCC OFF WH, COM VF SNDY, TR GLAUC, CALC IN PT, COM WH ARG MTX, TR FOSS FRAGS, TR GLAUC, SFT-FRM, AMORPH-BLKY.

CLAYSTONE, LT-MD GY-GRY GRN, CALC IN PT, AREN IN PT, TR PYR, TR FOSS FRAGS, TR CARB, TR GLAU, SFT, COM DISP, AMORPH, GRDG TO
SILTSTONE, LT-MD GY, OCC GY WH, CALC IN PT, TR GLAUC, COM ARG, SFT COM DISP, AMORPH-BLKY

GAS TRAP BYPASSED

DEV = 1° AT 1214M

MUD DATA 1143M.
W 9·0, V 56, F 6·4, FC 1, PH 9·7, PV 8, YP 10, SD TR, SOL 7, CL 8·3K, OIL 0, HP 1752 PSI, ECD 9·2 PPG, FP 8·7 PPG, BIT PRESS LOSS 1360 PSI

1280–1380M
CLAYSTONE, GR-DK GRY CALC, OCC F WH-LT BRN GRNS, DISSEM PYR, SFT-FRM, BLKY, GRDG TO
SILTSTONE, GR-DK GRY, CALC, PYR, FRM-HD, AREN IN PT, RR LITHIC FRAG, BLKY, GRDG TO ARG V F SST.
SILTSTONE, OFF WH-BUFF FRM-HD, AMORPH, ARG IN PT, DULL-MOD BRI YELL MNRL FLUOR

GAS TRAP BYPASSED

GAS TRAP INSTALLED

DEV = 1¼° AT 1361M

GAS TRAP BYPASSED

1380–1460M,
CLAYSTONE, MD-DK GY BRN, CALC IN PT, AREN IN PT, TR GLAUC, TR PYR SFT, DISP, AMORPH, OCC BLKY
SILTSTONE, LT-MD DK GY MD-DK GY BRN, CALC IN PT, COM VF SNDY, TR GLAUC, TR PYR, SFT, DISP GRDNG-FRM, AMORPH-BLKY

MUD DATA 1390M.
W 9·3, V 49, F 10·7, FC 2, PH 11·3, PV 7, YP 11, SD TR, SOL 7·5, CL 6·1K, OIL 0, HP 2200 PSI, ECD 9·4 PPG, FP 8·7 PPG, BIT PRESS LOSS 1240 PSI

1460–1530M
CLAYSTONE, MED-DK GRY BRN, LT GRY GRN, COM DISP, RR AREN, TR GLAU RR-OCC CARB MAT, PYR, OCC FOSS FRAG, SFT-FRM SCM SLTY, BLKY
SILTSTONE, MED-DK GRY BRN, OCC PALE GRN GRY V ARG, GRDG TO CLYST, TR GLAU, PYR, V RR GRDG TO V F SDST, OCC LSE CLR VF-F RND QTZ GRN SFT-OCC HD, SBBLKY

DEV = 0° AT 1467M

MUD DATA 1560M.
W 9·2, V 48, F 7·6, FC 2, PH 10·2, PV 11, YP 17, SD TR, SOL 8, CL 5K, OIL 0, HP 2445 PSI, ECD 9·4 PPG, FP 8·7 PPG, BIT PRESS LOSS 1200 PSI

1530–1550M
GAS TRAP INSTALLED
SILTSTONE, MD-DK GY BRN, ARG, TR CARB MAT, CALC IN PT, TR FOSS, MIC MICA, FRM, BLKY
CLAYSTONE, A/A.

SLOW ROP DUE TO BIT BALLING UP

1550–1600M
SILTSTONE, MD-DK GY BRN-MD BRN, CALC IN PT, COM ARG, TR CARB MAT, MIC MICA, TR FOSS FRAGS, FRM-MOD HD, BLKY, OCC GRDNG TO
SANDSTONE, OFF WH-LT GY, VF, MOD-P SRT, SBANG-SBRND, TR-COM CALC CMT, TR ARG MTX, FRM-MOD HD, NIL POR, NO FLOR
CLAYSTONE, MD-DK BRN, CALC IN PT, RR AREN, MIC MICA, TR PYR, TR GLAUC, SFT-FRM, COM DISP, AMORPH-BLKY

SET 13⅜" CASING AT 1587·5M. DRILL AHEAD WITH 12¼" BIT.

DRILLED WITH FRESH-WATER, LOW SOLID MUD SYSTEM.

1600–1603M
CEMENT CONTAMINATION
1603–1609M
SILTSTONE, DOM A/A.
1609–1664M
SANDSTONE, CL-OFF WH-OPQU, M-C, DOM M, MOD-P SRT, SBANG-SBRND, TR WH ARG MTX, F-G INF VIS POR, NO FLOR,
SILTSTONE, A/A. W/MNR
CLAYSTONE, MD-DK BRN, TR AREN, SFT, COM DISP TR GLAUC, AMORPH.

W 8.7, V 60, F 5.0, FC 1, PH 11.7, PV 13, YP 35, SD TR, SOL 3.5, CL 700, OIL 0, HP 2375 PSI, ECD 8.9 PPG, FP 8.7 PPG, BIT PRESS LOSS 1650 PSI

1664–1696M,
SILTSTONE, LT-MD GY-MD GY BRN, ARG IN PT, CALC IN PT, COM PYR, TR CARB FLECKS, TR GLAUC, FRM-MOD HD, OCC HD, BLKY
CLAYSTONE, LT-MD GY, OCC GY BRN, CALC IN PT, TR CARB FLECKS, TR GLAUC, FRM-HD, BLKY

1696–1720M,
SILTSTONE, DOM AS ABV, W/ MNR LSE, CLR, F GR, RND QTZ GRNS W/ OCC BRN ARG MTX

CARBIDE 5U AT 1724M
THEOR STKS 6125
ADJUST 6535

1720–1744M,
SILTSTONE, AS ABOVE, W/ INC CARB MAT
SANDSTONE, CLR, C'LESS F-M GR, RND, MOD SRT, LSE, OCC BUFF-BRN ARG MTX, TR WK CALC CMT, WK SIL CMT, MOD-GD INF POR, NO FLUOR

HEAVY CEMENT CONTAMINATION

1744–1771M,
SANDSTONE, OFF WH, VF-F GR, SBRD, MOD SRT, COM LT BRN ARG MTX, WK CALC CMT, FRM, P VIS POR, NO FLUOR,
COAL, BLK, SBVIT, SBCONC FRAC, SBFIS
SILTSTONE, MED-DK GRY BRN, ARG, V COM DISSEM PYR, OCC CARB MAT, FRM SBBKLY
1771–1807M,
SANDSTONE, V LT GRY-LT GRY BRN, SFT-FRM, SBRD-RD, COM ARG MTX, TR SIL CMT, TR CARB DET AND LITHIC GRNS, P VIS POR, NO FLUOR, INTERLAMINATED W/
SILTSTONE, GRY BRN, AREN IN PT, ARG IN PT, LAM, GRDG TO VF SDST, PYR, FRM-OCC HD, SBBLKY
COAL, BLK, SBVIT, LAMIN IN PT, SLTY, SBCONC FRAC, SBFIS
1807–1825M,
SANDSTONE, OFF WH, CLR TRANSL, F-C GR, PRED F-M GR, P SRT, SBRD-RD WK SIL CMT, LSE, NO VIS MTX, GD INF POR, NO FLUOR
SILTSTONE, AS ABOVE

DEV = ¾° AT 1835M

1825–1891M
SILTSTONE, LT BRN, GRY BRN, AREN, ARG MTX, LITHIC FRAG, TR CARB MAT, LAM IN PT, TR PYR SIL, FRM, GRDG TO VF SDST
SANDSTONE, OFF WH-LT GRY, CLR, VF-F GR, OCC M GR, SBRD, MOD SRT, MNR ARG MTX, WK SIL CMT, EASILY FRI, SFT-FRM, LSE, OCC LITHIC FRAG, P-MOD VIS POR, NO FLUOR

W 8.8, V 42, F 6.5, FC 2, PH 6.5, PV 12, YP 7, SD TR, SOL 4.0, CL 500, OIL 0, HP 2875 PSI, ECD 9.1 PPG, FP 8.7 PPG, BIT PRESS LOSS 1975 PSI

1891–1918M
SANDSTONE, CL-OFF WH, OCC OPAQUE, OCC LT BRN GY, F-M-C, DOM M, SBANG-SBRND, P SRT, TR CALC CMT, TR-COM ARG MTX, OCC LITH FRAG, TR GLAUC, SFT, LSE, F-GOOD VIS POR, NO FLOR
SILTSTONE, LT-MD BRN, OCC GY BRN, ARG, CALC IN PT, TR-COM CARB FLECKS/LAM, MIC MICA, TR GLAUC, TR PYR, FRM-MOD HD, BLKY, OCC DISP
1918–1984M
COAL, BLK, SBVIT-VIT, COM SBCONCH FRAC, COM SLTY, TR PYR LAM, BRIT, HD
SANDSTONE, A/A.
SILTSTONE, A/A.

DEV = 1 AT 1926M

1984M–2002M,
COAL, BLK, SBVIT-VIT, SLTY, LAM IN PT, PYR, SBCONCH FRAC, FIRM, BRIT
SANDSTONE, WH, CLR, C'LESS, M-F GR, OCC V F GR, MOD-W SRTD, SR-SA, WK SIL CMT, RR TR-PRED CALC CMT, FRI-LSE, TR PYR, TR INTSTL CLY, TR-N POR, TR DULL PK ORNG MNRL FLOR
SILTSTONE, DK-LT GY, M-LT BRN, ARG IN PT, GRDG TO V F SST, CARB LAM, MIC, FIRM-HD, BLKY-SBFIS
2002M–2027M,
SANDSTONE, LT BRN-OFF WH, M-F GR, MOD SRTD, SA-R, COM CALC CMT, TR