OR-331A

329471

APPENDIX F

EXLOG COMPANY: AMOCO AUST WELL: TILANA # 1 SHEET NO. 1

FORMATION EVALUATION LOG

RT
22M
MSL
82M
SEABED

DRILLED 36" HOLE TO 209M. SET 30" CASING AT 203M.

DRILLED 26" HOLE TO 416M. SET 20" CASING AT 413M.

DRILLED 12¼" HOLE WITH SEAWATER.

DEV = ½° AT 209M

DEV = 0° AT 282M

DEV = ½° AT 416M

420–560M
BIOCALCARENITE, WH-OFF WH, OCC V LT GRY, OCC V LT TRANSL YEL, FRM-MOD HD, COM LSE, M-C, DOM M GR, SBANG, P SRT, COM FOSS FRAGS, CALC CMT, TR ARG MTX, MOD VIS POR, NO FLUOR

460–465M
BYPASS SHAKERS

BIOCALCARENITE, DOM AS ABOVE, W/ COM SPNG SPIC, BRIOZ AND FORAM FRAGS

W 8·7, V 28
HP 692PSI, FP 8·7PPG
ECD 9·1 PPG
BIT PRESS LOSS 1592

BIOCALCARENITE, AS ABOVE W/ TR CMT CONTAMINATION

BIOCALCARENITE, DOM AS ABOVE W/ INCR ARG MAT, TR PYR

560–655M
CALCARENITE, OFF WH-WH-LT GRY, F-M GR, OCC C GR, DOM M GR, LSE-FRM W/ COM HD AGGS, SBANG-SBRD, P SRT, CL CALC CMT, TR ARG MTX, TR PYR, TR-COM GLAU, TR-COM FOSS FRAGS, MOD VIS POR, NO FLUOR

DEV = ¾° AT 586M

CALCARENITE, DOM AS ABOVE, BCM INC ARG W/ TR FOSS FRAGS

655–745M,
CALCARENITE, OFF WH-LT GRY, F-M GR, LSE-FRM, OCC HD AGGS, SBANG, P-MOD SRT, CALC CMT, WH-PALE GRY ARG MTX, COM FOSS FRAGS, OCC GLAU, TR PYR, P VIS POR, TR-DULL-MOD BRI ORNG MNRL FLUOR

CALCARENITE, DOM AS ABOVE, BCM PRED SBRD, INC IN ARG MTX, PYR, COM FRAGS OF FORAMS, BRYOZOA, SPNG SPIC, ECHINODERM

DEV = ½° AT 734M

745–800M,
CALCARENITE, LT GRY, F-M GR, OCC C GR, FRM W/ COM HD AGGS, SBRD, P-MOD SRT, COM WH-PALE GRY ARG MTX, CALC CMT, COM FOSS FRAGS, GLAU, TR PYR, P VIS POR, DULL PALE YEL-ORNG MNRL FLUOR

800–860M,
CALCARENITE, LT-MED GRY, OCC WH, F-M GR, RR C GR, LSE-FRM, P-MOD SRT, COM LT GRY ARG MTX, PRED GR SUPPORTD RR MTX SUPPORTD, COM FOSS FRAGS, GLAU, RR PYR, TT-P VIS POR
CLAYSTONE, GRY-V PALE GRNSH GRY, DISP, SFT-OCC FRM, CALC, OCC F CALCARENITE GRNS, GLAU, TR PYR

860–880M,
CALCARENITE, OFF WH-LT GRY-LT BRN, BCM SBRD-RD, PRED M GR, FOSS FRAGS, PYR, TR GLAU, P VIS POR
CLAYSTONE, DOM AS ABV BCM PRED FRM, INC IN PYR, TR GLAU, COM F-M CALC GRNS

880–930M,
CLAYSTONE, GRY-BLUSH GRY, DISP IN PT, OCC SBFIS, SFT-OCC FRM, SBBLKY, PYR, CALC
CALCARENITE, DOM AS ABOVE, COM FOSS FRAGS

DEV = ½° AT 891M

930–980M,
CLAYSTONE, LT-MED GRY OCC LT GRY BRN, OCC DK GRY, AREN IN PT, CALC IN PT, SFT-MOD FRM, COM DISP, AMORPH, OCC PLTY, W/ MNR
CALCARENITE, WH-OFF WH, OCC LT BRN, LSE, OCC FRM, AGGS, F-M, OCC C, DOM M GR, SBANG-SBRD CALC CMT, TR ARG MTX, MOD INF POR, TR DULL ORNG, MNRL FLUOR

CARBIDE 4·5U AT 947M
THEOR STKS 5240
ADJUST STKS 5502

980–1095M,
CLAYSTONE, DOM AS ABV GRDG TO
SILTSTONE, MED-DK GRY OCC MED GRY BRN, ARG IN PT, CALC IN PT, TR-COM CALC FLCKS AND VEINS, FRM-MOD HD, COM DISP, W/ FINELY INTBD
CALCARENITE, DOM AS ABOVE

W 8·8, V 48, F 18·5
FC 2, PH 9·9, PV 8
YP 18, SD TR, SOL 5
CL 11·5K, OIL 0,
HP 1562 PSI,
ECD 9·0 PPG
FP 8·7 PPG
BIT PRESS LOSS 1340PSI

DEV = ½° AT 1049M

1095–1120M,
CLAYSTONE, MED-DK GRY OCC GRY BRN, AREN IN PT, CALC IN PT, TR MICMICA, TR PYR, SFT-FRM, COM DISP, AMORPH, OCC PLTY, W/ F INTBDD
CALCARENITE, DOM AS ABOVE, W/ TR-COM FOSS FRAGS

1120–1140M,
MASSIVE CLAYSTONE, AS ABOVE

1140–1160M,
CLAYSTONE, DOM AS ABV W/ MNR
COAL, DK BRN-BLK, SLTY IN PT, ARG IN PT, FRM-MOD HD, BLKY-PLTY, OCC MOD SBFIS

1160–1240MT
CLAYSTONE, MD-DK GY, OCC GY BRN, AREN IN PT, CALC IN PT, TR MICMICA, TR PY, SFT-MOD FRM, COM DISP, AMORPH, RR MOD SBFISS, W/MNR
COAL, DK BRN-BLK, SLTY IN PT, ARG IN PT, FRM-MOD HD, BLKY-PLTY, OCC MOD SBFISS
SANDSTONE, CL-OPAQUE, OCC V LT BRN, M-C, SBANG-SBRND, P SRT, LSE, GOOD INF VIS POR, NO FLOR

DEV = ½° AT 1198M

1240–1255MT
SANDSTONE, CL-TRANS, M-C, SBRD, MOD W SRT, GOOD INF VIS POR, WK SILC CMT, LSE, NO FLOUR
CLAYSTONE, A/A, AREN IN PT, TR PY
COAL, BLK, ARG IN PT, FRM-MOD HD, SBCONCH FRAC, BLKY

1255–1325M
VOLCANICS, LT-M GY, BLK-LT GRN-PALE GRN GY, WTHRD, PUMICE TEX, COM DEVIT GRND MASS, SFT-OCC V HD, ANG-OCC SBRND, CALC IN PT, TR RD-ELONG INCL, RR ACIC TEXT, RR DK-CLR GLASS SHARDS, MNR INTBDS TUFF SST AND MED RD BRN RHY
CLAYSTONE, DOM A/A
SANDSTONE, DOM A/A

DEV = ½° AT 1294M

W 9·0, V 38, F 18·5,
FC 2, PH 11·2, PV 8,
YP 22, SD TR, SOL 6,
CL 12K, OIL 0,
HP 1985PSI
ECD 9·2PPG
FP 8·7PPG
BIT PRESS LOSS 1910PSI

CARBIDE 5U AT 1330M
THEOR STKS 6578
ADJUST 6859

1325–1375M
VOLCANICS, DOM A/A,
SILTSTONE, LT GY-GY BRN, ARG IN PT, CALC, SFT-MOD FRM, MOD DISP AMORPH, OCC BLKY, W/ MINOR
SANDSTONE, CLR, M-C, DOM M, P SRTD, TR SILIC CMT, LSE, G INF VIS POR, NO FLOR

1375–1395M,
SANDSTONE, CLR-TRANSL PRED V F-OCC F GR, MOD W SRT, V FRI, WK CALC CMT, COM ARG MTX GRDG TO SLST
SILTSTONE, PRED AS ABOVE, COM LT GRY BRN

1380–1394M,
VOLCANICS, BLU BLK-BLK LT-DK GRN, HD-V HD, SUBIDIOMORPHIC TEXT, PALE GRN CALC GROUNDMASS, SBANG-SBRD, COM ELONG INCL, NO-TT VIS POR, NO FLUOR

1395–1450M
SANDSTONE, OFF WH-LT BRN, F-M, PRED F GR, SBANG-SBRD, MOD SRT, FRM-HD, COM PALE BRN ARG MTX, WK-MOD STRNG CALC CMT, P VIS POR, NO FLUOR
SILTSTONE, LT GRY-GRY LT BRN, AREN IN PT, SFT-OCC FRM, OCC PYR, SBBLKY
CLAYSTONE, PALE GRN GRY, COM DISP, SFT-FRM AREN IN PT, CALC, SBBLKY

[illegible]M
SILTSTONE, DOM AS ABOVE, PRED GRY BRN, ARG IN PT, COM AREN, SFT-OCC FRM, OCC CALC TR PYR, SBBLKY-SBFIS
CLAYSTONE, LT-MED GRY OCC LT GRN GRY, SFT-MOD FRM, CALC IN PT, OCC DISP, SBBLKY

CARBIDE 8U AT [illegible]
THEOR STKS 7460
ADJUST STKS 7573

DEV ½° AT 1511M

1510–1550M
CLAYSTONE, LT-MD GY, CALC IN PT, TR MICMICA, SFT, COM DISP, AMORPH
SILTSTONE, LT-MD GY-GY BRN, ARG IN PT, CALC IN PT, TR PY, MOD FRM, DISP, AMORPH, W/V MNR
SANDSTONE, CL-OPAQUE, OCC LT BRN, VF, OCC F-M, MOD SRT, SBRND, OCC SBANG, TR SILC CMT, TR CALC CMT, TR WH ARG MTX, MOD FRI, SFT, DOM LSE, F-GOOD IN VIS POR, NO FLOUR

1550–1642M
CLAYSTONE, DK GY-MD DK GY BRN, AREN IN PT TR CALC, MIC-MICA, SFT DISP, AMORPH
SILTSTONE, DK GY-MD DK BRN, TR CALC, V ARG TR MICMICA, TR PY, OCC VF SND, SFT, DISP, AMORPH

W 9·1, V 42, F 11·0
FC 2, PH 11·5, PV 8
YP 32, SD TR, SOL 7,
CL 12K, OIL 0,
HP 2413 PSI
ECD 9·4 PPG
FP 8·7 PPG
BIT PRESS LOSS 1782 PSI

1645–1662M
CLAYSTONE, MD-DK BRN, AREN IN PT, COM PY, TR MIC-MICA, DISP, SFT, AMORPH, W/MNR
SANDSTONE, CL, VF-F, DOM F, SBANG-SBRND, P SRT, TR CALC CMT, TR CALC CMT, FRM-LSE, W/ COM MOD HD AGGS, P VIS POR, NO FLUOR
SILTSTONE, DOM AS ABV.

1657–1713M,
SANDSTONE, LT GRY-OFF WH, TRANSL, V F-PREDF GR, OCC M-C GR, SBANG-SBRD, MOD W SRT, LT GRY BRN ARG MTX, RR DK FRAGS, WK-OCC MOD STRNG SIL CMT, P VIS POR, NO FLUOR
CLAYSTONE, LT GRY-LT GRN GRY, V DISP, MNR CALC, SFT, BLKY
SILTSTONE, GRY-V DK GRY, BLK, ARG, BCM AREN W/ DPTH, SFT-MOD FRM, CARB IN PT, DISS PYR BCM COM, BLKY

1713–1725M,
SANDSTONE, AS ABOVE BUT BCM PRED OFF WH-GY, VC-C GR, SBRND-RND P SRT, WK SIL CMT, TR SLTY MTX, TR MICA, TR PYR, P INF POR, FRI, NO FLUOR
SILTSTONE, DK GRY-BLK V CARB, ARG, MIC-MICA, N CALC, SFT-V SFT, LAM
COAL, GRYSH BLK-BLK, FIRM-HD, BRIT, SBVIT LSTR, SBCONC-CONC FRAC, ARG IN PT,

1725–1752M,
SANDSTONE, PRED OFF WH-LT GRY, PRED C GR, RND-OCC W RND, MOD SRT, WK SIL CMT, TR INTSTL CLY MTX, OCC TR PYR, FR POR, N FLOR
SILTSTONE, DK GY, CARB MIC-MICA, ARG IN PT, SFT-FIRM, N CALC, BLKY-SBFIS
COAL, BLK, VITLSTR, HD, BRIT, CONCH FRAC

1752–1773M,
SANDSTONE, OFF WH-LT GY, VC-PRED V F GR, P SRTD, SBRND-SBANG, STG SIL CMT, TR ARG MTX, COM MICA, TR PYR, TR CARB MAT, TR POR, N FLOR
SILTSTONE, LT GY-LT BRN, OCC V DK GY, SDY IN PT, ARG, MICA, FIRM-HD, LAM, BLKY-SBFIS
COAL, AS ABOVE

1773–1815M
SANDSTONE, CLR, C'LESS TRNSL, OFF WH, M-PRED C GR, P SRT, SBANG-ANG WK SIL CMT, TR INTSTL CLY, FRI-LSE, G INF POR, N FLOR
SILTSTONE, LT BRN, SDY ARG, MIC-MICA, SFT-OCC HD, OCC CARB LAM, BLKY

CARBIDE 8U AT 1765M
THEOR STKS 6431
ADJUST STKS 6447
MUD V 50

COAL, BLK, VIT LSTR, HD BRIT, SBCONCH FRAC

1855–1860M,
SANDSTONE, CLR-TRANSL WH-LT GRY, VC-C GR, OCC F-M GR, ANG-SBANG MOD-W SRT, WK SIL CMT UNCONSOL, COMMON MICA, RR-TR PYR, FRIA INF POR, QTZ OVRGRTHS NO FLUOR
COAL, GRYSH BLK, DULL-VIT LSTR, UNEVEN-CONC FRAC, BLKY, HD, BRIT
SILTSTONE, LT-DK GRY, AREN, ARG, CARB, HD, MICA, OCC GRNSH GRY IN PT

DEV = 1° AT 1860M

1860–1881M,
SANDSTONE, OFF WH-LT GRY, M-OCC C GR, SBANG-RR RD, MOD SRT, WH ARG MTX, WK SIL CMT, RR PYR, P VIS POR, NO FLUOR
SILTSTONE, LT-DK GRY, ARG, AREN, BCM SDY IN PT, MICMICA, RR CARB MAT, FRM-OCC HD, BLKY

CARBIDE 4U AT 1889M
THEOR STKS 6880
ADJUST STKS 7015
MUD VISC 65

1881–1902M,
SANDSTONE, OFF WHITE-TRANSL, [illegible]
SILTSTONE, DOM AS ABV [illegible] GRDG TO SLTST

1902–1938M
SANDSTONE, OFF WH-LT GRY, TRANSL, FRM-OCC HD, PRED F GR, RR M-C GR, SBRD, MOD W SRT, ABNT WH ARG MTX, WK-MOD STRNG SIL CMT, OCC PYR, TT-P VIS POR NO FLUOR
SILTSTONE, LT-DK GRY, ARG, COM'LY AREN, OCC CARB MAT, GRDG TO CLYST IN PT, FRM-HD, COM DISS PYR, BLKY

DEV = ½° AT 1926M

1938–1950M
SANDSTONE, TRNSP-TRNSL WH, C-F GR, P SRTD, ANG-OCC SBRND, WK-MOD SIL CMT, OCC ARG MTX, FRI-OCC HD, TR-P VIS POR, N FLOR
SILTSTONE, LT-M GY, V MICA, ARG, OCC CARB, LAM, FIS, SFT

1950–1971M
SANDSTONE, TRNSL, WH, GY, F-V C GR, PRED C GR, P SRT, ANG, STG SIL CMT TR DOL, COM WH INTSTL MTX, TR MICA FLK, OCC TR PYR, HD-OCC FRI, TR VIS POR, N FLUOR
COAL, BLK, VIT LSTR, FIRM-MOD HD, BRIT, SB CONCH FRAC

1971–1992M
SANDSTONE, WH V FVGR, W SRT, SBANG, WK SIL CMT, TR INTSTL MTX, FRI, TR-P VIS POR, N FUOR
SILTSTONE, OFF WH-DK GY, SFT-HD, SIL, ARG IN PT, TR PYR, MICA, FIRM-V HD, BLKY-SBFIS

1992–1998M
VOLCANICS, TRNSL M GRY GRN, CRYPTOXLN, WAXY TEX, HD BRIT

1998–2013M
SANDSTONE, WH-LT GRY, CLR, F-V C GR, P SRT, FRM-V HD, ANG-SBRND, STRNG SIL CMT, TR DOL TR INTSTL CLY, OCC LITHIC FRAGS, N-TT VIS POR, N FLUOR

2013–2022M
TUFFACEOUS SANDSTONE TRNSL GRNY WH-LT GY, V F GR, CRYPTOXLN SIL TR DK INCL, FIRM-HD BLKY

2022–
DOLERITE, M-DK GRN, VF-F GR, XLN, MICRO-PORPH IN PT, COM QTZ, INTGN FSPR LATHS, ABNT OPAQ-GR(BIOT, MAGNETITE) W/TR PYR, SL CALC, FRM
DOLERITE, A/A BCM PRED LIGHTER

2052–2064M
DOLERITE, A/A, GRADING TO BASALT, BCM DKER
BASALT, GYSH BK-GRNSH BLK-BRNSH BLK, HD, MIC XLN, PORPHYRITIC

2064–2074M,
TUFF, GRNY WH-LT GY-LT BRN, VIT, CRYPTOXLN, DK INCL, V HD SBCONCH BREAK, SL CALC
BASALT, AS ABOVE
DOLERITE, AS ABOVE

2074–
DOLERITE, M-DK GRN, GRY, V F-OCC M GR, XLN COM QTZ, MICRO-PORPH, FELD LATHS, OPAQ GRNS (MAGNT, BIOT), CALC, FRM-HD, BRIT, BLKY
BASALT, MNR, AS ABOVE

CARBIDE 2U AT 2097M
THEOR STKS 7496
ADJUST STKS 7652
MUD VISC 65

W 9·1, V 50, F 3·6,
FC 1, PH 10, PV 21,
YP 20, SD TR, SOL 5,
CL 3·3K, OIL 0,
HP 3330PSI
ECD 9·2PPG
FP 8·7PPG
BIT PRESS LOSS 1195PSI

DEV = 1½° AT 2164M

2193–2250M
GABBRO, MOT OFF WH, LT GY-GRN, DK BRN-BLK C GR, SBHED XLN, ABNT FLD AND PYROXENE, W/ COM OPHITIC TEX, COM EUHED MAGNETITE AND BIOT XL, SL CALC, TR ACCESSORY OLIVINE AND PYR

2250–2259M
GABBRO, DOM A/A, W/MNR
SANDSTONE, CL-OFF WH, VF-F, SBANG, P SRT, SILC CMT, FRM-MOD HD, NO FLOR

2259–2280M
CLAYSTONE, DK GY-DK BRN-BLK, MIC MICA, BLKY SBFIS, FRM-MOD HD
SANDSTONE, CL-OFF WH, F-M, DOM F, SBANG, P SRT SILC CMT, P VIS POR, FRM-HD, TT, NO FLOR

2280–2298M
ANTHRACITE, DK GY-BLK, FRM-HD, COM MASS PY, BLKY, SBCONC-CONC
CLAYSTONE, DOM A/A.
SANDSTONE, DOM A/A.
SILTSTONE, M-DK BRN, MIC-MICA, ARG, COM SDY DOM V CARB, SFT-FIRM, MASS, OCC LAM, BLKY

2298–2316M
SANDSTONE, WH-LT GY-LT BRN, M GR, SBRND-RND W SRTD, P-MOD SIL CMT, TR WH INTSTL CLY MTX, FRI-HD, N-TR VIS POR, N FLOR

2316–2325M
ANTHRACITE, BLK, VIT LSTR, CONCH FRAC, HD-V HD, BRIT, BLKY, BCM MICA

2325–2341M
SILTSTONE, GYSH BLK, V CARB, MIC-MICA, ARG, LAM, SBFIS, HD, GRDG TO ARG COAL
SANDSTONE, PRED A/A BUT BCM F GR IN PT

2341–2349M
COAL, BLK, SBVIT-VIT LSTR, SBCONCH-CONCH FRAC, FIRM-HD, BRIT, BLKY

2349–2388M