

9. CORROSION REPORTS



TO : TEIKOKU OIL COMPANY, DARWIN, NT.
FAO : Mr. Frank Barker.

24/6/94

CORROSION COUPON REPORT - TOC.

ANALYSIS. AMDEL PERTH, 23/6/94.
OPERATOR. TOC, DARWIN.
WELL. KINGFISHER # 1
BLOCK. EP 57
BASIN. BONAPARTE BASIN
RIG. RON TAPPMAYER

SIZE (ins). 4.5 IF, 5 EH
KF. 253
COUPON NO. 6262
DEPTH IN (m). 339
DEPTH OUT (m). 1090
DATE IN. 25/5/94
DATE OUT. 29/5/94
HOURS EXPOSED. 101.5
LOCATION. First stand above HWDP
INITIAL WT (gms). 80.3625
FINAL WT (gms). 79.5007
WT. LOSS (gms). 0.8618
DP OBSERVATION. OK

DRILLING FLUID.	START.	END.	MATERIALS.
FLUID TYPE.	GEL POLYMER		CAUSTIC SODA
pH.	9.0	9.0	MIL-PAC
Ca.	480	340	BIO-LOSE
Mg.	-	-	XCD POLYMER
Cl.	12000	12500	MILGEL
S.	0	0	NOXYGEN
SO ₄	0	0	
SO ₃	0	100	
Pf/Mf.	0.1/0.45	0.12/0.75	
Pm.	-	-	
Viscosity.	65	60	
Mud Weight.	1.04	1.10	
Filtrate.	9.0	9.4	

RESULTS.

Coupon No. 6262 :- Corrosion rate = 2.15 lb/ft²/yr = 52.8 mils/yr.
Nil to slight general corrosion on outer, lower and bevel surfaces.
Slight general corrosion and slight irregular pitting on inner and upper surfaces.

D. Chidlow

D. CHIDLOW, BAKER HUGHES INTEQ, MELBOURNE.



TO : TEIKOKU OIL COMPANY, DARWIN, NT.
FAO : Frank Barker.

2/8/94.

CORROSION COUPON REPORT - TOC.

ANALYSIS. AMDEL PERTH, 27/7/94.
OPERATOR. TOC, DARWIN.
WELL. KINGFISHER # 1
BLOCK. EP 57
BASIN. BONAPARTE BASIN
RIG. RON TAPMEYER

SIZE (ins). 4.5 IF, 5 EH
KF. 253
COUPON NO. 6191
DEPTH IN (m). 1817
DEPTH OUT (m). 2574
DATE IN. 20/6/94
DATE OUT. 4/7/94
HOURS EXPOSED. 330
LOCATION. First stand above HWDP
INITIAL WT (gms). 81.5638
FINAL WT (gms). 80.7976
WT. LOSS (gms). 0.7662
DP OBSERVATION. OK

DRILLING FLUID.	START.	END.	MATERIALS
FLUID TYPE.	KCL PHPA		KOH
pH.	9.2	9.3	MIL-PAC
Ca.	400	240	NEW-DRILL PLUS
Mg.	120	0	XCD POLYMER
Cl.	41000	53000	MILGEL
S.	0	0	NOXYGEN
SO4.	0	0	MIL-BIO
SO3.	0	120	KCL
Pi/Mf.	0.2/1.8	0.15/1.2	MIL-BAR
Pm.	0.4	0.3	
Viscosity.	58	55	
Mud Weight.	1.07	1.45	
Filtrate.	6.7	6.0	

RESULTS.

Coupon No. 6191 :- Corrosion rate = 0.59 lb/ft²/yr = 14.5 mils/yr.
Minor generalized corrosion on all surfaces with shallow pitting.

D. Chidlow

D. CHIDLOW, BAKER HUGHES INTEQ, MELBOURNE.



TO : TEIKOKU OIL COMPANY, DARWIN, NT.
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2/8/94.

CORROSION COUPON REPORT - TOC.

ANALYSIS. AMDEL PERTH, 28/7/94.
OPERATOR. TOC, DARWIN.
WELL. KINGFISHER # 1
BLOCK. EP 57
BASIN. BONAPARTE BASIN
RIG. RON TAPPMAYER

SIZE (ins). 4.5 IF, 5 EH
KF. 253
COUPON NO. 6246
DEPTH IN (m). 2574
DEPTH OUT (m). 2813
DATE IN. 4/7/94
DATE OUT. 12/7/94
HOURS EXPOSED. 197
LOCATION. First stand above HWDP
INITIAL WT (gms). 80.0486
FINAL WT (gms). 79.7417
WT. LOSS (gms). 0.3069
DP OBSERVATION. OK

DRILLING FLUID.	START.	END.	MATERIALS
FLUID TYPE.	KCL PHPA		KOH
pH.	9.3	9.3	MIL-PAC
Ca.	240	360	NEW-DRILL PLUS
Mg.	0	0	XCD POLYMER
Cl.	53000	102000	MILGEL
S.	0	0	NOXYGEN
SO4	0	0	MIL-BIO
SO3	120	60	KCL
Pf/Mf.	0.15/1.2	0.1/1.0	MIL-BAR
Pm.	0.3	0.15	MD
Viscosity.	55	58	
Mud Weight.	1.45	1.56	
Filtrate.	6.0	3.6	

RESULTS.

Coupon No. 6246 :- Corrosion rate = 0.39 lb/ft²/yr = 9.7 mils/yr.
Very minor generalized corrosion on all surfaces.

D. Chidlow

D. CHIDLOW, BAKER HUGHES INTEQ, MELBOURNE.



TO : TEIKOKU OIL COMPANY, DARWIN, NT.
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18/8/94.

CORROSION COUPON REPORT - TOC.

ANALYSIS. AMDEL PERTH, 16/8/94.
OPERATOR. TOC, DARWIN.
WELL. KINGFISHER # 1
BLOCK. EP 57
BASIN. BONAPARTE BASIN
RIG. RON TAPPMAYER

SIZE (ins). 4.5 IF, 5 EH
KF. 253
COUPON NO. 6081
DEPTH IN (m). 2814
DEPTH OUT (m). 3058
DATE IN. 12/7/94
DATE OUT. 25/7/94
HOURS EXPOSED. 275
LOCATION. First stand above HWDP
INITIAL WT (gms). 78.5140
FINAL WT (gms). 78.2692
WT. LOSS (gms). 0.2448
DP OBSERVATION. OK

DRILLING FLUID.	START.	END.	MATERIALS.
FLUID TYPE.	KCL PHPA		KOH
pH.	9.2	9.4	MIL-PAC
Ca.	220	120	NEW-DRILL PLUS
Mg.	0	0	XCD POLYMER
Cl.	102000	116000	WO. DEFOAM
S.	0	0	NOXYGEN
SO4.	0	0	MD
SO3.	100	100	KCL
Pi/Mf.	0.1/1.0	0.2/1.2	MIL-BAR
Pm.	0.15	0.45	MILGEL
Viscosity.	62	61	
Mud Weight.	1.57	1.56	
Filtrate.	3.2	3.2	

RESULTS.

Coupon No. 6081 :- Corrosion rate = 0.225 lb/ft²/yr = 5.54 mils/yr.
Nil to slight general corrosion, and nil to slight irregular pitting on all surfaces. Some light scratches along inner and lower surfaces.

D. Chidlow

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18/8/94.

CORROSION COUPON REPORT - TOC.

ANALYSIS. AMDEL ADELAIDE, 18/8/94.
OPERATOR. TOC, DARWIN
WELL. KINGFISHER # 1
BLOCK. EP 57
BASIN. BONAPARTE BASIN
RIG. RON TAPMEYER

SIZE (ins). 4.5 IF, 5 EH
KF. 253
COUPON NO. 6327
DEPTH IN (m). 3058
DEPTH OUT (m). 3257
DATE IN. 25/7/94
DATE OUT. 4/8/94
HOURS EXPOSED. 189
LOCATION. First stand above HWDP
INITIAL WT (gms). 80.2901
FINAL WT (gms). 79.8877
WT. LOSS (gms). 0.4024
DP OBSERVATION. OK

DRILLING FLUID.	START.	END.	MATERIALS.
FLUID TYPE.	KCL PHPA		KOH
pH.	9.4	9.0	MIL-PAC
Ca.	120	120	NEW-DRILL PLUS
Mg.	0	0	XCD POLYMER
Cl.	116000	110000	WO. DEFOAM
S.	0	0	NOXYGEN
SO4.	0	0	MIL-BIO
SO3.	100	100	KCL
Pf/Mf.	0.2/1.2	0.15/1.1	MIL-BAR
Pm.	0.45	0.4	
Viscosity.	61	62	
Mud Weight.	1.56	1.57	
Filtrate.	3.2	3.0	

RESULTS.

Coupon No. 6327 :- Corrosion rate = 0.539 lb/ft²/yr = 13.25 mils/yr.
Very minor generalized corrosion on all surfaces.

D. Chidlow

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