



WATER ANALYSIS FINAL REPORT
of
KOROIT WEST-1
for
OIL COMPANY OF AUSTRALIA LIMITED
by
ACS LABORATORIES PTY LTD



4 March, 2003

Oil Company of Australia Limited
1st Floor, John Oxley Centre
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MILTON QLD 4064

Attention: Chris Shield

WATER ANALYSIS - FINAL REPORT 0583-06

KOROIT WEST-1

Please find enclosed final results of the water analysis for the samples taken from the above well.

If ACS can assist you in any way or if you require any further information, please do not hesitate to contact the undersigned.

A handwritten signature in black ink, appearing to be 'NICK COX'.

NICK COX
PVT Laboratory Manager

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CHAPTER 1

SAMPLE DETAILS

SAMPLE DETAILS

Client: Oil Company of Australia Limited
Well: Koroit West-1

Well	Koroit West-1
Formation	Mepunga
Depth	561.0 m
Sampling Date	22nd January 2003
Sample Type	MDT & Mud Filtrate

Standard conditions of temperature and pressure for this study are 15.6°C and 14.7 psia.

CHAPTER 2

WATER ANALYSIS RESULTS

WATER ANALYSIS

Client : Oil Company of Australia Limited
Well: Koroit West-1
Sample: 1 - MDT Water
Date: 22/1/2003

CHEMICAL COMPOSITION

Cations			Anions		
	mg/L	meq/L		mg/L	meq/L
Sodium (Na):	1010.0	43.9	Chloride (Cl):	2650.0	74.6
Calcium (Ca):	62.0	3.1	Bi-Carbonate (HCO ₃):	507.0	10.1
Magnesium (Mg):	37.0	3.0	Sulphate (SO ₄):	92.0	1.9
Iron (Fe):	0.1	0.0	Carbonate (CO ₃):	<1.0	0.0
Potassium (K):	1420.0	36.3	Fluoride (F)	2.1	0.1
			Hydroxide (OH):	<1.0	0.0
			Bromide (Br):	7.8	0.1
			Nitrate (NO ₃):	<0.1	0.0

DERIVED DATA

Total Dissolved Solids:	mg/L
Based on E.C	5600
Calculated (HCO ₃ = CO ₃)	5820
Total Hardness (as Ca CO ₃)	305
Total Alkalinity (as Ca CO ₃)	507

OTHER ANALYSES

Resistivity	1.030 ohm.m @ 25 °C
Conductivity (E.C)	9700.0 µS/cm @ 25 °C
Reaction - pH	8.0

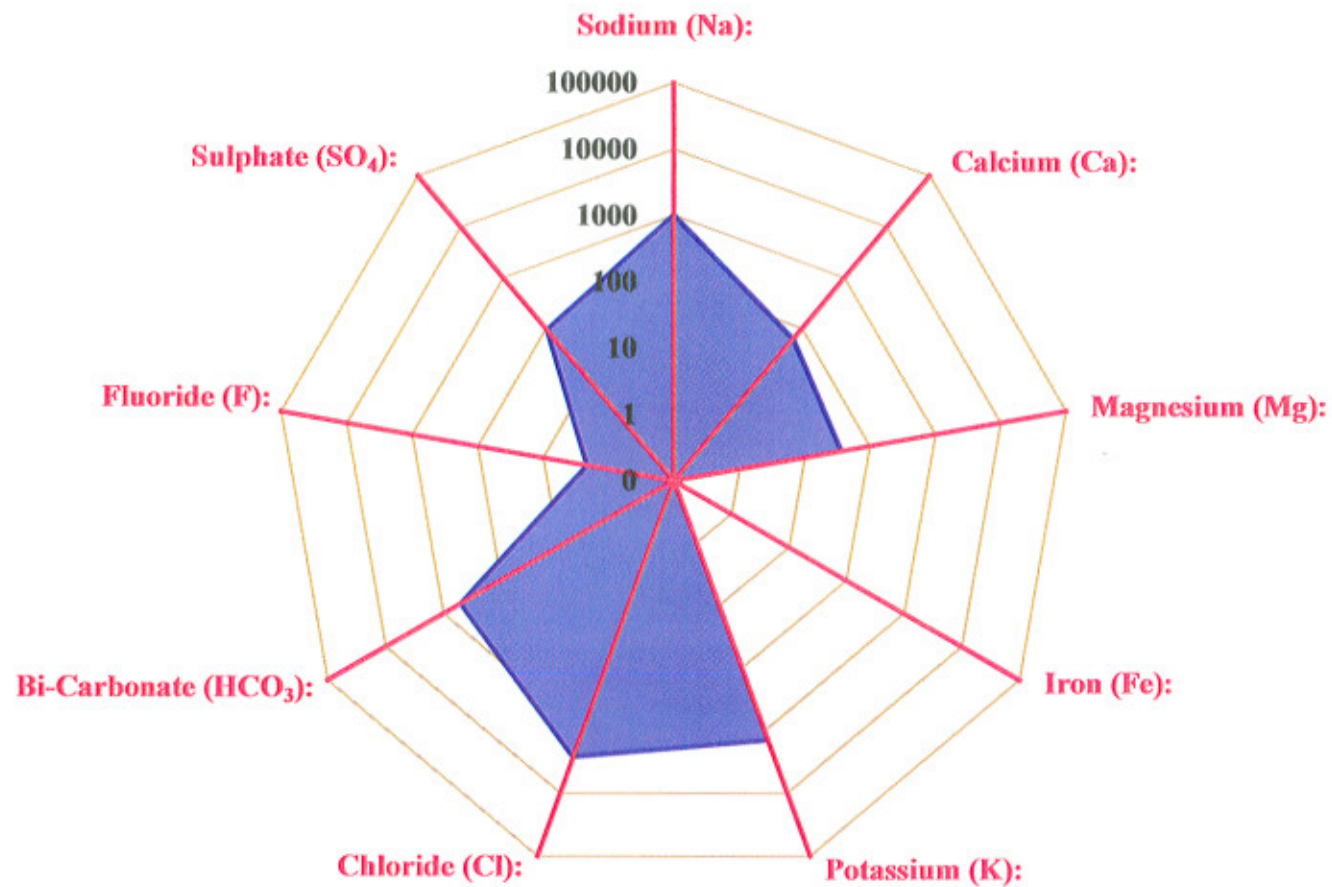
TOTAL AND BALANCE

Cations	86
Anions	87
Ion Balance (Diff*100/sum)	0.232
Sodium Adsorption Ratio	25.1
Difference (Anions - Cations)	0.40
Sum (Anions + Cations)	173.2

WATER ANALYSIS (mg/L)

Client : Oil Company of Australia Limited

Well: Koroit West-1



WATER ANALYSIS

Client : Oil Company of Australia Limited
Well: Koroit West-1
Sample: 2 - Mud Filtrate
Date: 22/1/2003

CHEMICAL COMPOSITION

Cations			Anions		
	mg/L	meq/L		mg/L	meq/L
Sodium (Na):	2370.0	103.1	Chloride (Cl):	15700.0	442.2
Calcium (Ca):	236.0	11.8	Bi-Carbonate (HCO ₃):	10400.0	207.8
Magnesium (Mg):	116.0	9.5	Sulphate (SO ₄):	387.0	8.1
Iron (Fe):	1.1	0.0	Carbonate (CO ₃):	120.0	2.0
Potassium (K):	14900.0	381.1	Fluoride (F)	1.7	0.1
			Hydroxide (OH):	<1.0	0.0
			Bromide (Br):	38.4	0.5
			Nitrate (NO ₃):	0.4	0.0

DERIVED DATA

Total Dissolved Solids:	mg/L
Based on E.C	40500
Calculated (HCO ₃ = CO ₃)	39100
Total Hardness (as Ca CO ₃)	1070
Total Alkalinity (as Ca CO ₃)	10500

OTHER ANALYSES

Resistivity	0.154 ohm.m @ 25 °C
Conductivity (E.C)	65100.0 µS/cm @ 25 °C
Reaction - pH	8.7

TOTAL AND BALANCE

Cations	506
Anions	660
Ion Balance (Diff*100/sum)	13.264
Sodium Adsorption Ratio	31.5
Difference (Anions - Cations)	154.61
Sum (Anions + Cations)	1165.7

WATER ANALYSIS (mg/L)

Client : Oil Company of Australia Limited

Well: Koroit West-1

