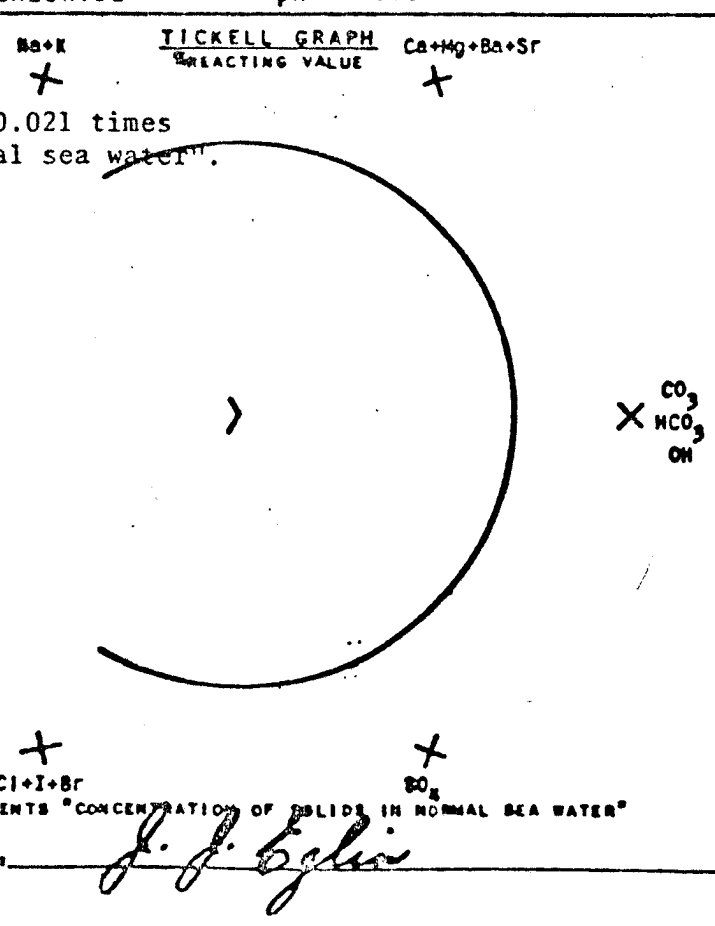
DATE OF REPORT	2/10/83	WELL NO.	Kern River Water Reclamation Plant
DATE OF SAMPLING	2/2/83	COMPANY	Chevron U.S.A.
SAMPLED BY		FIELD	
LABORATORY NO.	1298	ZONE	Sample Point C 1300 hrs.
ANALYST		SAMPLE SOURCE	

RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	156.	6.78	37.84
CALCIUM	Ca	33.	1.65	9.21
MAGNESIUM	Mg	2.3	0.18	1.00
BARIUM	Ba	(-) 1.0		
STRONTIUM	Sr			
POTASSIUM	K	12.8	0.33	1.84
Iron	Fe	0.43	0.02	0.11
SULPHATE	SO_4	51.	1.06	6.05
CHLORIDE	Cl	148.	4.18	23.86
CARBONATE	CO_3	0.		
BICARBONATE	HCO_3	214.8	3.52	20.09
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	132.		
IRON, ALUMINA	R_2O_3			
TOTAL		750.	17.72	100.

GROUP	CHEMICAL CHARACTER		MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	59.82	BORON	1.9	Mg/LB
EARTHS	SECONDARY SALINITY	-	HYDROGEN SULFIDE	(-) 0.1 ppm	
STRONG ACIDS	PRIMARY ALKALINITY	19.54	EQUIVALENT SALT	508..	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	20.64	RESISTIVITY @ 77°F	11.49	O.M.
Ca/EARTHS			CHLORINITY	244.	Mg/L NaCl
Ca/Mg = 9.17					
CHLORIDE SALINITY		Totals 100.	SPECIFIC GRAVITY	1.000	
SULPHATE SALINITY	CARBONATE/CHLORIDE		pH	6.6	

REMARKS

TICKELL GRAPH
% REACTING VALUE



Note: The subject water contains 0.021 times the solids content of "normal sea water".

(-) refers to "less than".

ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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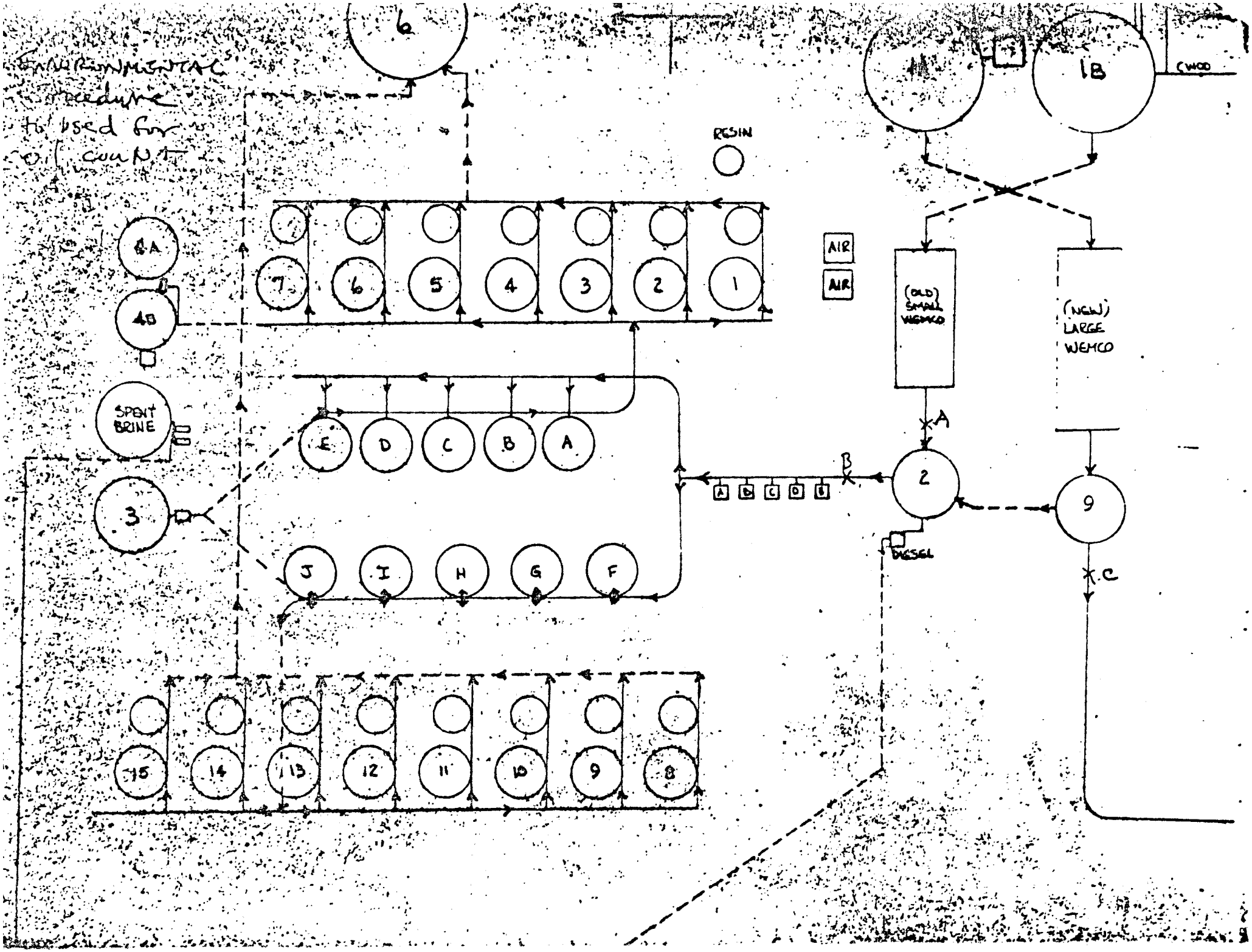
ENVIRONMENTAL
procedure
to used for
O.C. COUNT
6
1A
1B
CWOD
RESIN
AIR
AIR
(OLD) SMALL WEMCO
(NEW) LARGE WEMCO
4A
4B
SPENT BRINE
3
7
6
5
4
3
2
1
E
D
C
B
A
J
I
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G
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8
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DIESEL
A
B
C

GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	KMP
DATE OF SAMPLING	February 3, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-83W-30	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	Sample lt, A 1200 hrs.

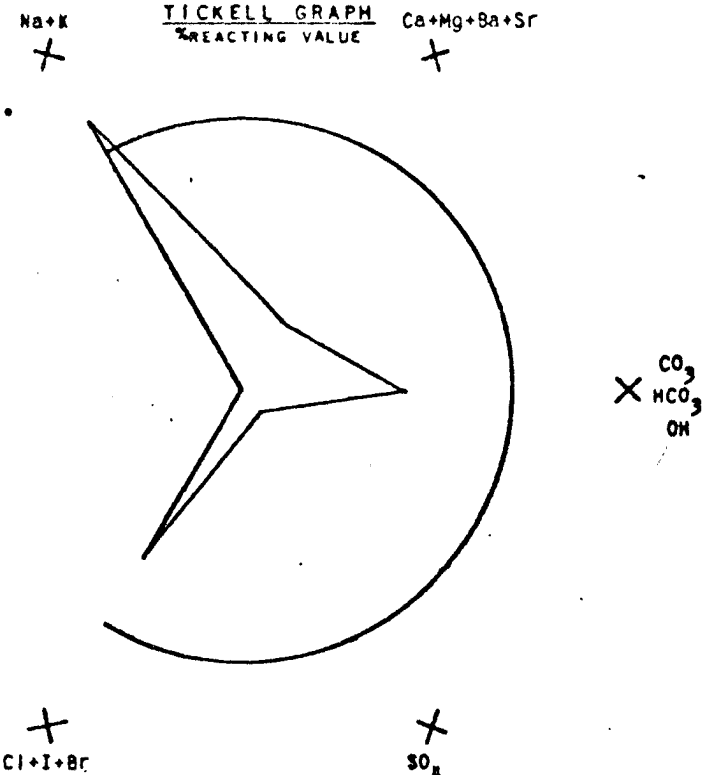
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	198.2	8.62	38.45
CALCIUM	Ca	34.7	1.73	7.72
MAGNESIUM	Mg	7.3	0.60	2.67
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.16
SULPHATE	SO_4	45.6	0.95	4.24
CHLORIDE	Cl	196.1	5.53	24.66
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	288.9	4.73	21.10
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	118.5		
IRON, ALUMINA	R_2O_3			
TOTAL		809.3	22.42	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	0.5	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	550	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	8.51	O.M.
Ca/EARTHS		CHLORINITY	323	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0014	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.28	

REMARKS

Total hardness: 116.6mg/L as $CaCO_3$
Conductivity: 1175 uhmos/cm @ 60°F.
Oil Content: 41.8 mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

E. W. Brubaker
D. L. Johnston
C. E. Fieber
1-C Laboratory

R. H. Yamada

Pro-391 (Rev. 7-80)

GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	[illegible]P
DATE OF SAMPLING	February 2, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	[illegible]orn River
LABORATORY NO.	1[illegible]-83[illegible]-27	ZONE	
ANALYST	[illegible]	SAMPLE SOURCE	[illegible]ple Jt. A 1300 hrs.

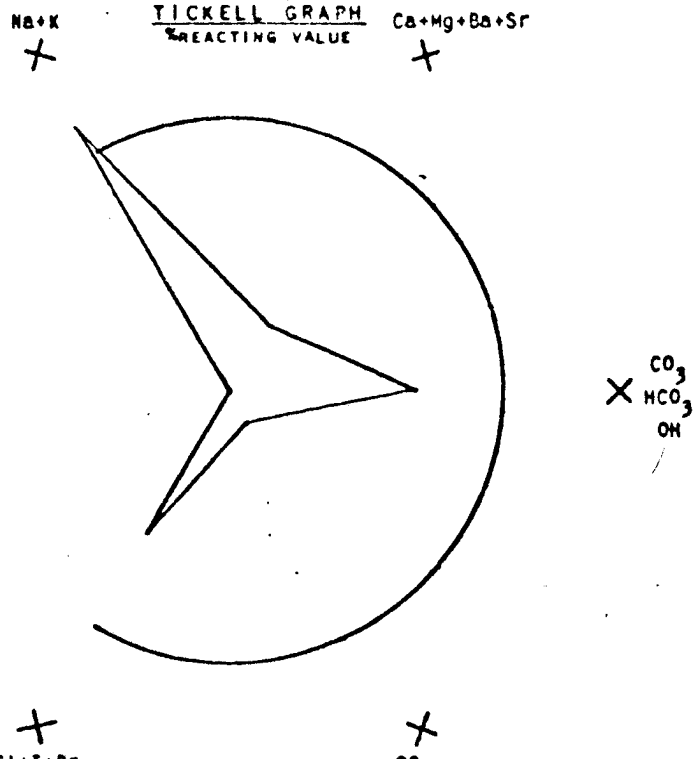
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	174.3	7.58	38.09
CALCIUM	Ca	31.1	1.55	7.79
MAGNESIUM	Mg	6.8	0.56	2.81
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.31
SULPHATE	SO_4	43.2	0.90	4.52
CHLORIDE	Cl	150.0	4.23	21.26
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	294.4	4.82	24.22
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	129.4		
IRON. ALUMINA	R_2O_3			
TOTAL		839.2	19.90	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	1.0	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	480	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	9.75	O.M.
Ca/EARTHS		CHLORINITY	247	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0014	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.28	

REMARKS

Total hardness: 105.5mg/L as $CaCO_3$
Conductivity: 1026 uhmos/cm @ 60°F.
Oil Content: 47.2 mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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1-C Laboratory

SIGNED R. N. Yamada

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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	[illegible]
DATE OF SAMPLING	February 1, 1983	COMPANY	Chevron U.S.A
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-831-24	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	Sample Pt. A

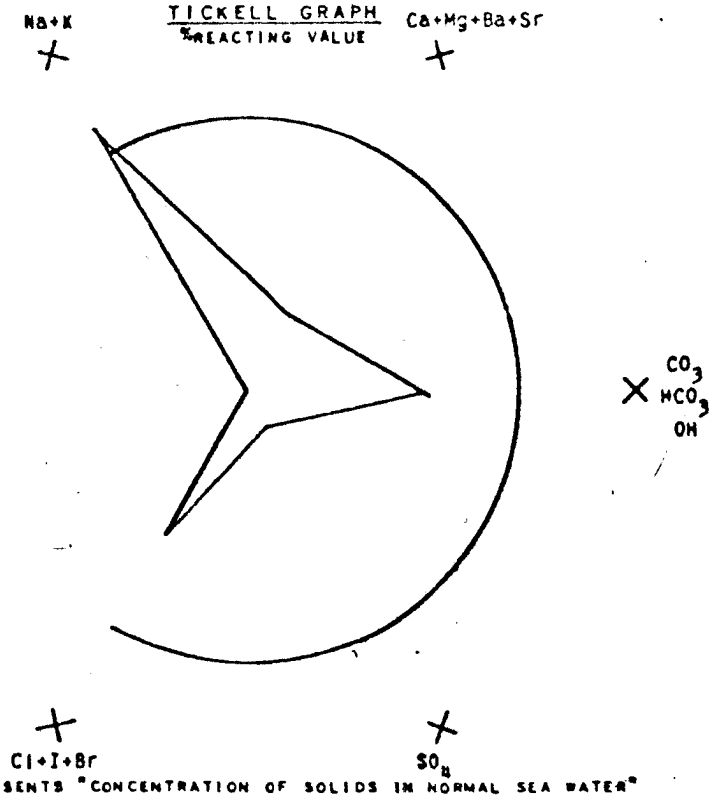
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	169.2	7.36	37.78
CALCIUM	Ca	30.1	1.50	7.70
MAGNESIUM	Mg	7.5	0.62	3.18
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.33
SULPHATE	SO_4	46.0	0.96	4.93
CHLORIDE	Cl	147.5	4.16	21.36
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	282.2	4.62	23.72
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	118.3		
IRON, ALUMINA	R_2O_3			
TOTAL		810.8	19.48	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	0.4	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	465	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	10.04	O.M.
Ca/EARTHS		CHLORINITY	243	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0010	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.28	

REMARKS

Total hardness: 106.0 mg/L as $CaCO_3$
Conductivity: 966 uhmos/cm @ 60°F.

TICKELL GRAPH
% REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	[illegible]
DATE OF SAMPLING	February 1, 19[illegible]3	COMPANY	Chevron [illegible]
SAMPLED BY		FIELD	Fern River
LABORATORY NO.	12-83[illegible]-25	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	[illegible]

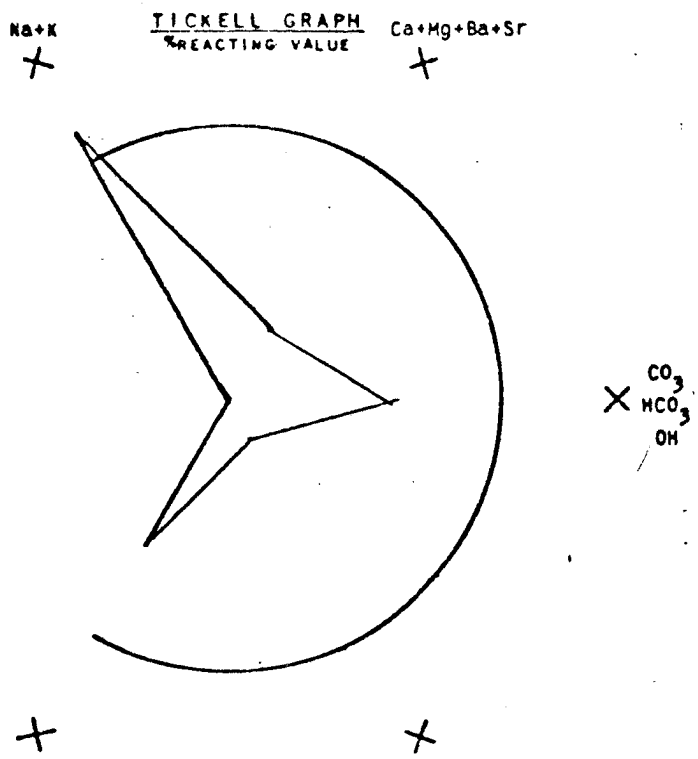
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	159.8	6.95	37.98
CALCIUM	Ca	29.2	1.46	7.98
MAGNESIUM	Mg	5.8	0.48	2.62
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.42
SULPHATE	SO_4	45.3	0.94	5.14
CHLORIDE	Cl	145.7	4.11	22.46
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	250.2	4.10	22.40
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	112.8		
IRON, ALUMINA	R_2O_3			
TOTAL		758.8	18.30	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	0.5	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	445	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	10.50	O.M.
Ca/EARTHS		CHLORINITY	240	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0012	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.11	

REMARKS

Total hardness: 96.6 mg/L as $CaCO_3$
Conductivity: 952 uhmos/cm @ 60°F.

TICKELL GRAPH
%REACTING VALUE



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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	KEMP
DATE OF SAMPLING	February 2, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-83W-28	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	Sample Pt. B 1300 hrs.

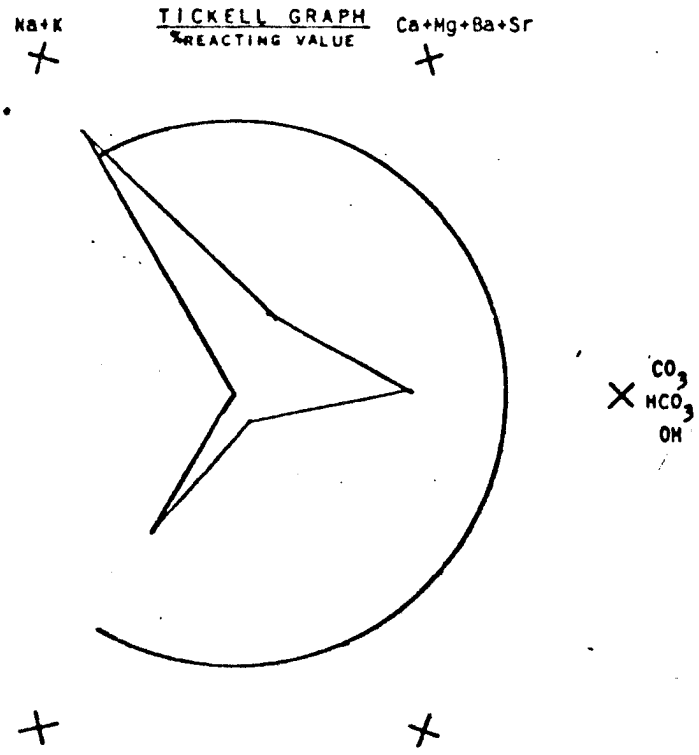
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	169.7	7.38	38.32
CALCIUM	Ca	30.6	1.53	7.94
MAGNESIUM	Mg	5.6	0.46	2.39
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.35
SULPHATE	SO_4	41.4	0.86	4.47
CHLORIDE	Cl	151.7	4.28	22.22
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	273.7	4.49	23.31
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	121.8		
IRON, ALUMINA	R_2O_3			
TOTAL		804.5	19.26	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	1.0	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	450	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	10.25	O.M.
Ca/EARTHS		CHLORINITY	250	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0014	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.22	

REMARKS

Total hardness: 99.6 mg/L as $CaCO_3$
Conductivity: 975.6 uhmos/cm @ 60°F.
Oil Content: 43.6 mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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1-C Laboratory

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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	[illegible]
DATE OF SAMPLING	February 3, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-83M-31	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	Sample Pt. B 1300 hrs.

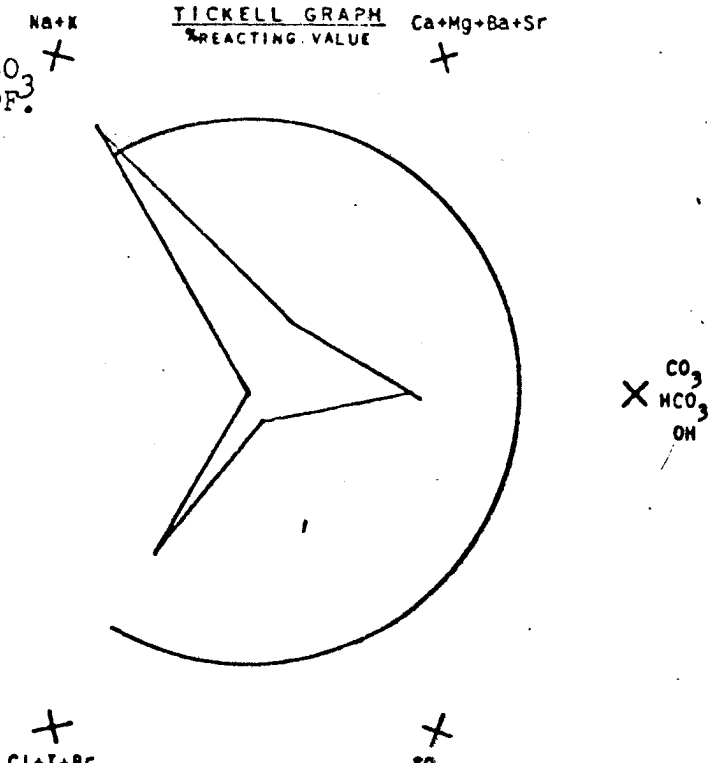
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	190.6	8.29	38.38
CALCIUM	Ca	33.9	1.69	7.83
MAGNESIUM	Mg	6.8	0.56	2.59
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.20
SULPHATE	SO_4	44.4	0.92	4.26
CHLORIDE	Cl	187.9	5.30	24.54
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	279.2	4.58	21.20
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	116.6		
IRON, ALUMINA	R_2O_3			
TOTAL		869.4	21.60	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS	
ALKALIS	PRIMARY SALINITY	BORON	0.2 Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	530 Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	8.72 O.M.
Ca/EARTHS		CHLORINITY	310 Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0011
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.21

REMARKS

Total hardness: 112.6 mg/L as $CaCO_3$
Conductivity: 1147 uhmos/cm @ 60°F.
Oil Content: 46.3 mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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C. E. Fieber
1-C Laboratory

SIGNED: H. M. Yamada

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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	KMF
DATE OF SAMPLING	February 3, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-83K-32	ZONE	
ANALYST	Chaw	SAMPLE SOURCE	Sample it. C 1200 hrs.

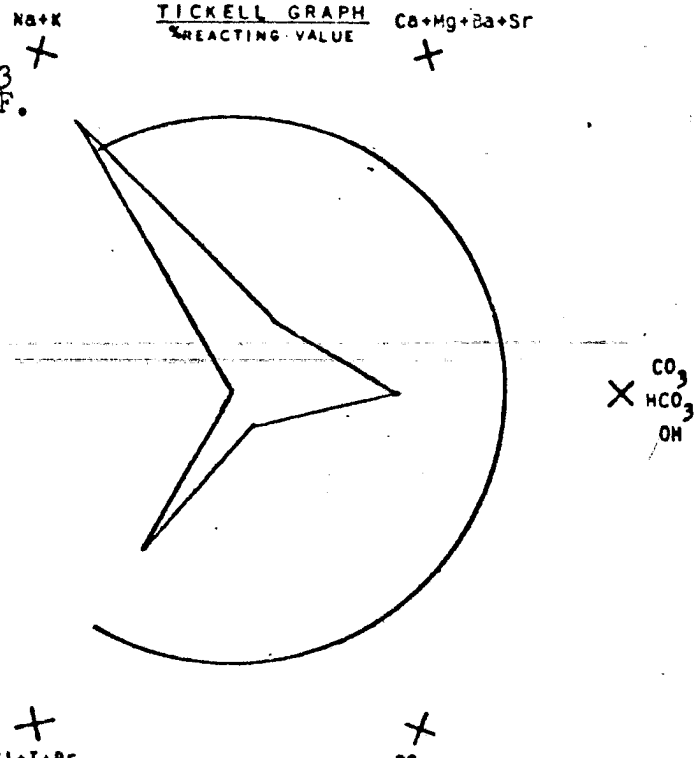
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	152.7	6.64	38.52
CALCIUM	Ca	29.2	1.46	8.47
MAGNESIUM	Mg	3.5	0.29	1.68
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	9	0.23	1.33
SULPHATE	SO_4	44.3	0.92	5.34
CHLORIDE	Cl	143.9	4.06	23.55
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	222.3	3.64	21.11
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	115.5		
IRON, ALUMINA	R_2O_3			
TOTAL		720.4	17.24	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS	
ALKALIS	PRIMARY SALINITY	BORON	1.3 Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	420 Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	10.99 O.M.
Ca/EARTHS		CHLORINITY	237 Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0011
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.05

REMARKS

Total hardness: 87.4 mg/L as $CaCO_3$
Conductivity: 910 uhmos/cm @ 60°F.
Oil Content: 30.9mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February10, 1983	WELL NO.	KRP
DATE OF SAMPLING	February 2, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Kern River
LABORATORY NO.	12-83-29	ZONE	
ANALYST	Shew	SAMPLE SOURCE	Sample Pt, C 1300 hrs.

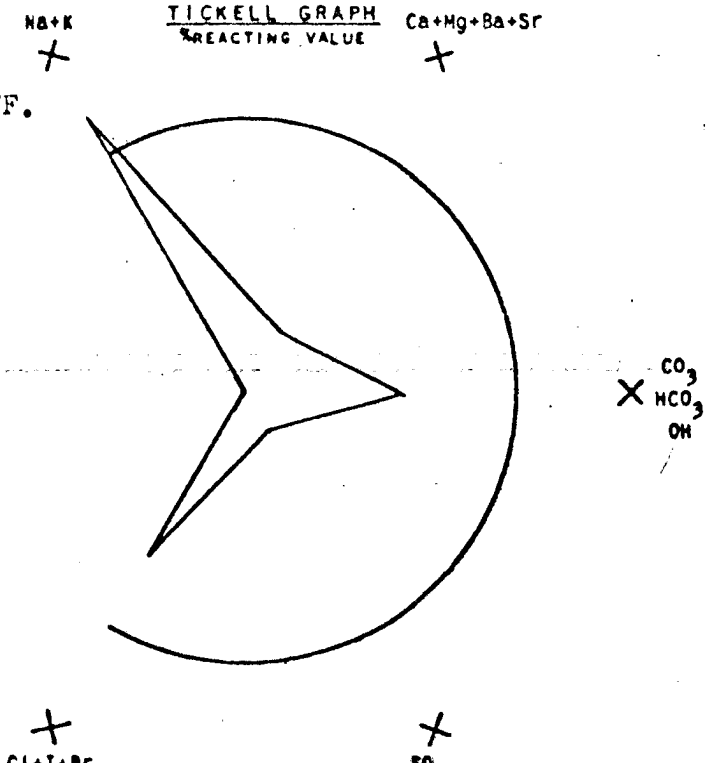
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	165.1	7.18	38.85
CALCIUM	Ca	30.0	1.50	8.12
MAGNESIUM	Mg	3.4	0.28	1.52
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	11	0.28	1.51
SULPHATE	SO_4	52.6	1.10	5.95
CHLORIDE	Cl	156.0	4.40	23.81
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	228.0	3.74	20.24
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	121.3		
IRON, ALUMINA	R_2O_3			
TOTAL		767.4	18.48	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	1.1	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	450	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	10.29	O.M.
Ca/EARTHS		CHLORINITY	257	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0012	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.05	

REMARKS

Total hardness: 88.7mg/L as $CaCO_3$
Conductivity: 971.8 uhmos/cm @ 68°F.
Oil Content: 30.7 mg/L oil

TICKELL GRAPH
%REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

E. W. Brubaker
D. L. Johnston
C. E. Fieber
1-Laboratory

SIGNED: R. M. Yamada

Pro-391 (Rev. 7-80)
Printed in U.S.A.

GEOCHEMICAL ANALYSIS OF WATER Pro-391

DATE OF REPORT	February 10, 1983	WELL NO.	[illegible]
DATE OF SAMPLING	February 1, 1983	COMPANY	Chevron USA
SAMPLED BY		FIELD	Horn River
LABORATORY NO.	12-83[illegible]-26	ZONE	
ANALYST	Shaw	SAMPLE SOURCE	Complete C

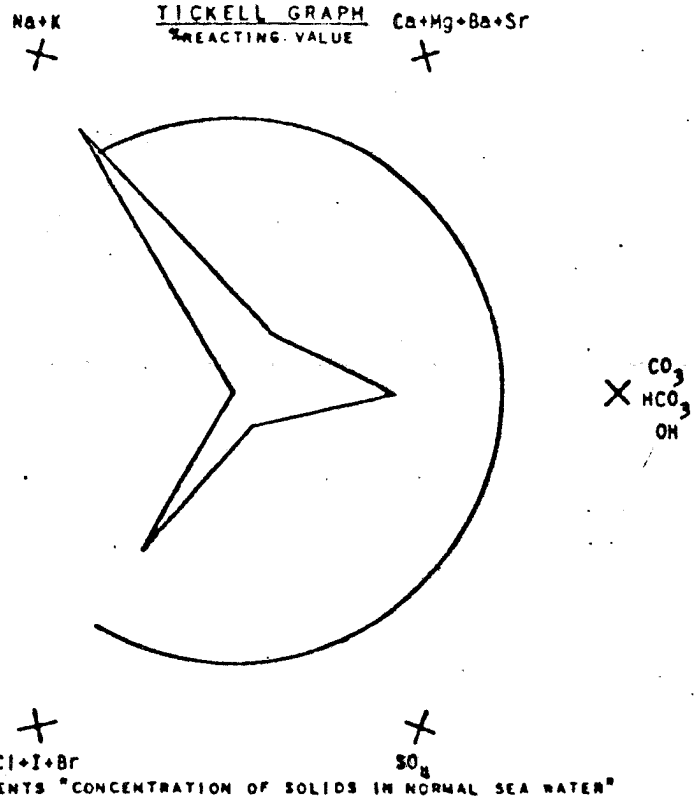
RADICALS		CONCENTRATION MILLIGRAMS PER LITER	REACTING VALUE EQUIVALENTS PER MILLION	REACTING VALUE PERCENT
SODIUM	Na	149.0	6.48	38.25
CALCIUM	Ca	28.5	1.42	8.38
MAGNESIUM	Mg	3.8	0.31	1.83
BARIUM	Ba			
STRONTIUM	Sr			
POTASSIUM	K	10	0.26	1.54
SULPHATE	SO_4	42.7	0.89	5.25
CHLORIDE	Cl	142.2	4.01	23.67
CARBONATE	CO_3	0.0	0.00	0.00
BICARBONATE	HCO_3	217.8	3.57	21.08
HYDROXIDE	OH			
IODIDE	I			
SILICA	SiO_2	113.4		
IRON, ALUMINA	R_2O_3			
TOTAL		707.4	16.94	100.00

GROUP	CHEMICAL CHARACTER	MISCELLANEOUS		
ALKALIS	PRIMARY SALINITY	BORON	0.8	Mg/LB
EARTHS	SECONDARY SALINITY	HYDROGEN SULFIDE	Absent	
STRONG ACIDS	PRIMARY ALKALINITY	EQUIVALENT SALT	420	Mg/L NaCl
WEAK ACIDS	SECONDARY ALKALINITY	RESISTIVITY @ 77°F	11.12	O.M.
Ca/EARTHS		CHLORINITY	234	Mg/L NaCl
CHLORIDE SALINITY		SPECIFIC GRAVITY	1.0010	
SULPHATE SALINITY	CARBONATE/CHLORIDE	pH	7.10	

REMARKS

Total hardness: 86.7 mg/L as $CaCO_3$
Conductivity: 899 uhmos/cm @ 60°F.

TICKELL GRAPH
% REACTING VALUE



ARC REPRESENTS "CONCENTRATION OF SOLIDS IN NORMAL SEA WATER"

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D. L. Johnston
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1-C Laboratory

PAO-391 (Rev. 7-80)
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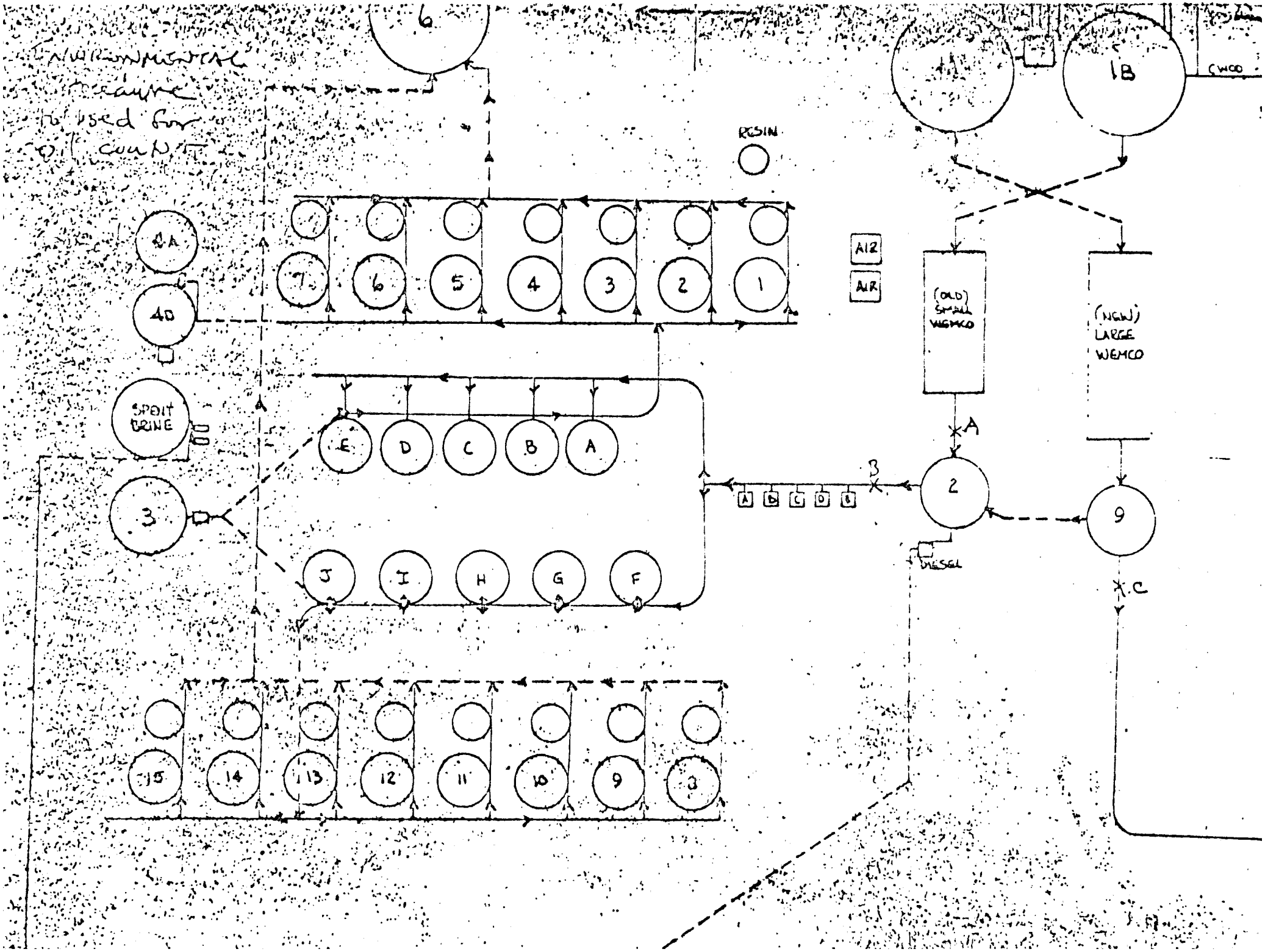
SIGNED: [illegible] H. Yamada


ENVIRONMENTAL
PROCEDURE
TO BE USED FOR
O.C. COUNTY
6
1A
1B
CWCO
RESIN
AIR
AIR
(OLD)
SMALL
WEMCO
(NEW)
LARGE
WEMCO
4A
4D
SPENT
BRINE
3
7
6
5
4
3
2
1
E
D
C
B
A
J
I
H
G
F
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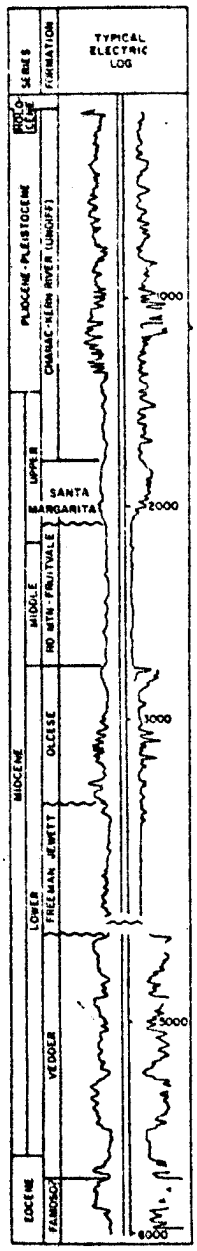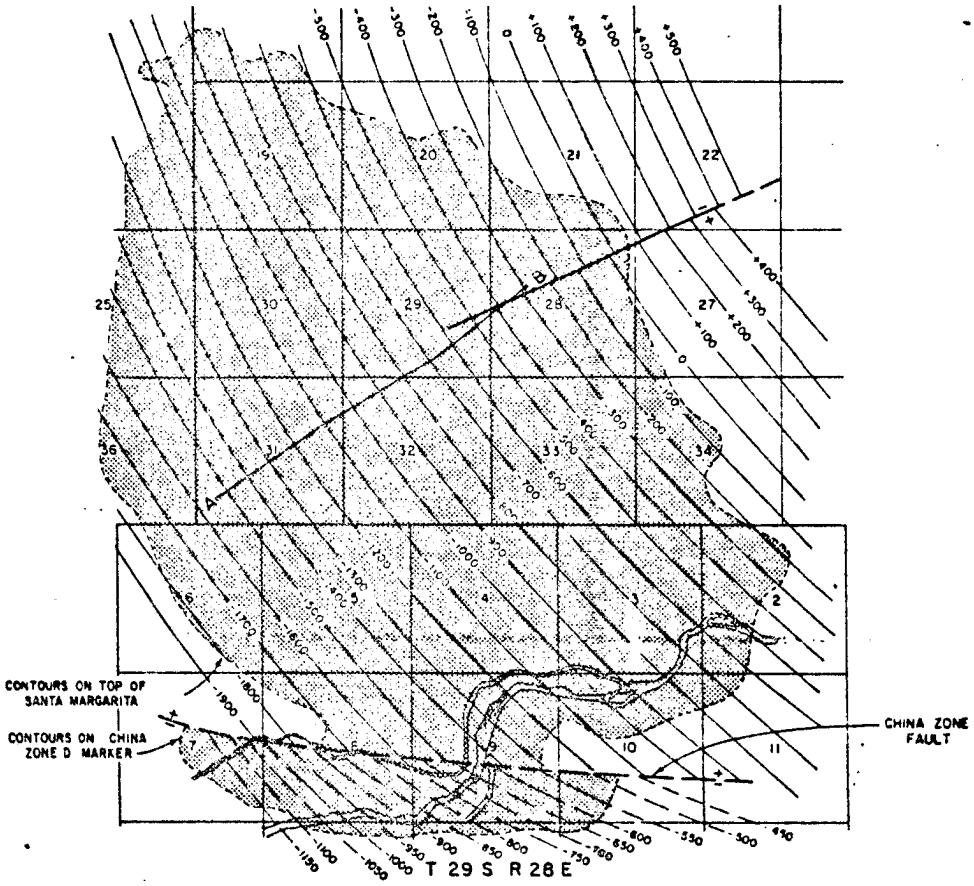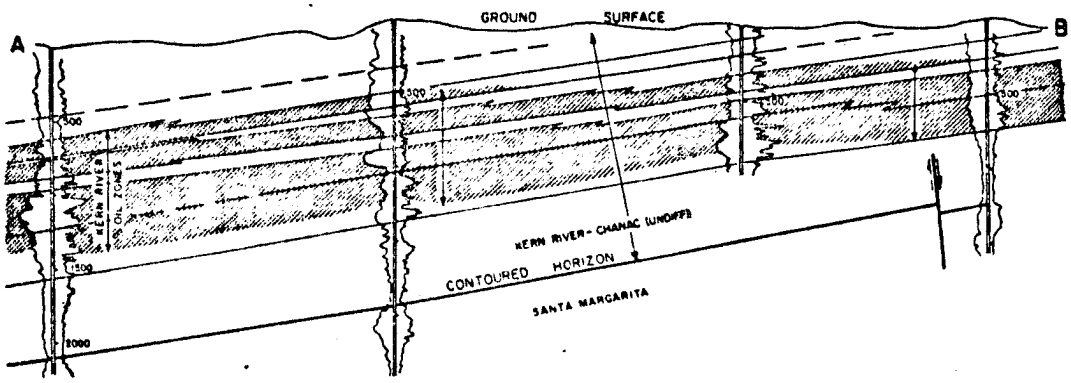
KERN RIVER OIL FIELD