FILE FOLDER

DESCRIPTION ON TAB:

Well A--TC

TC104

☑ **Outside/inside of actual folder did not contain hand written information**

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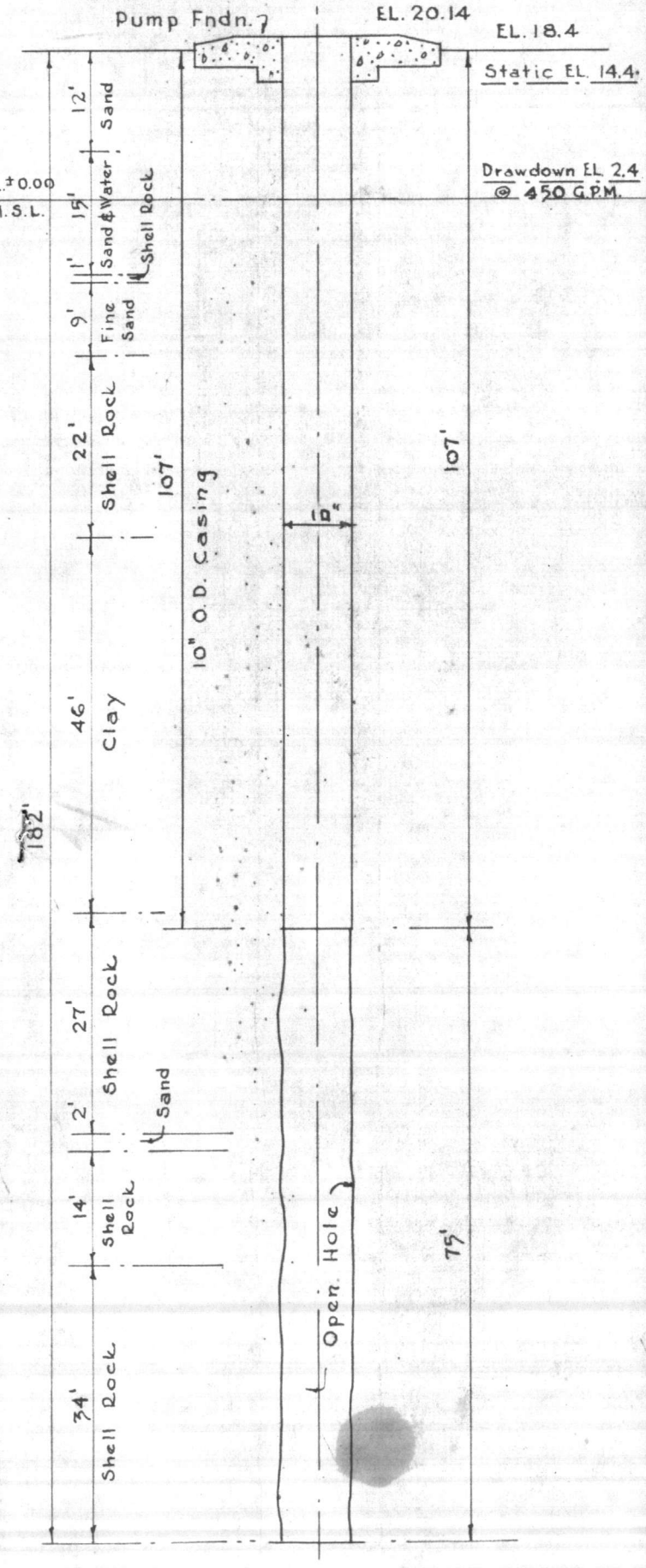
450 G.P.M. – SINGLE DRIVE –



T. C. A. WELL "A"

WATER ANALYSIS

By N.H KELLAM

Date 21- July 41

Sample from WELL NO. 1 TENT CAMP AERA

Well A 184'

Total Solids	1320 PPM	Volatile Solids	PPM
Suspended Solids	60 "	Disolved Solids	1260 "
Phenolphthalein Alkalinity	18 "	Silica	40 "
Total Alkalinity	436 "	Ferrous Iron	0 "
Chlorides	352 "	Total Iron	1.5 "
Sulphates	118.3 "	Aluminum	3.7 "
Carbonates	52. "	Calcium	40. "
Bicarbonates	380 "	Magnesium	6.4 "
		Sodium	338 "

pH ABOVE 8.4 Soap Hardness as $CaCo_3$ "

Mineral Hardness as $CaCo_3$ "

Odor SLIGHT H_2S

Turbidity SLIGHT

REMARKS

FORM A-4
JUNE '66)

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVENTORY OF HYDROLOGIC DATA STATIONS
QUALITY OF WATER

APPROVED.
Budget Bureau No. 42-R1485
Approval Expires June 30, 1968

1. AGENCY CODE	2. TYPE	3. LATITUDE	4. LONGITUDE	5.
MC	Q	° ' " N: 34 44 29	° ' " W: 77 27 29	

6. AGENCY STATION NO.	7. STATION NAME
TC104	TC508-A

8. DRAINAGE BASIN CODE No.	Letter	9. STATE CODE	10. COUNTY CODE	11. COUNTY NAME
6	N	32	133	ONSLOW

12. PERIOD OF RECORD
Began: 1941
Discontinued:
Y ☐ Continuous Interruption Exceeds 1 Year

13.

14.

15. SITE
- ☐ 101 Stream
- ☐ 102 Canal
- ☐ 103 Lake
- ☐ 104 Reservoir
- ☐ 105 Estuary
- ☐ 106 Spring
- ☑ 107 Well
- ☐ 110 Other

16. FREQUENCY OF MEASUREMENT
- ☐ 201 Continuous Recorder
- ☐ 202 Telemetered
- ☐ 203 Daily
- ☐ 204 Weekly
- ☐ 205 Monthly
- ☐ 206 Quarterly
- ☐ 207 Seasonal
- ☐ 208 Annual
- ☐ 209 Other Periodic
- ☑ 210 Occasional

17. TYPES OF DATA AVAILABLE

Physical
- ☐ 311 Temperature
- ☐ 312 Specific Conductance
- ☐ 313 Turbidity
- ☐ 314 Color
- ☐ 315 Odor
- ☐ 316 Radioactivity
- ☐ 317 pH (field)
- ☑ 318 pH (lab)
- ☐ 319 Eh
- ☐ 320 Other

Chemical
- ☐ 331 Dissolved solids
- ☑ 332 Chlorides Only
- ☐ 333 Nutrients (Nitrogen and phosphorus compounds)
- ☐ 334 Common ions
- ☑ 335 Hardness
- ☐ 336 Radiochemical
- ☐ 337 Dissolved oxygen
- ☐ 338 Other Gases
- ☐ 339 Other

Organic
- ☐ 351 Pesticides (insecticides, herbicides, etc.)
- ☐ 352 Synthetic detergents
- ☐ 353 Other

Biologic
- ☐ 361 Coliforms
- ☐ 362 Other Micro-organisms
- ☐ 363 BOD
- ☐ 364 Other

Sediment
- ☐ 371 Concentration
- ☐ 372 Particle size
- ☐ 373 Other

18. SUPPLEMENTARY DATA FOR SITE
- ☐ 421 Surface Water Station
- ☐ 422 Ground Water Station
- ☐ 423 Water Stage or Level
- ☑ 424 Water discharge
- ☐ 425 Time of Travel
- ☐ 426 Drainage Area

19. STORAGE OF DATA
- ☐ 501 Periodic Report
- ☐ 502 Areal Report
- ☑ 503 Not Published
- ☐ 504 Data on Punchcard
- ☐ 505 Data on Magnetic Tape
- ☐ 506 Other

20. OFFICE AT WHICH DATA AVAILABLE

Office: BASE MAINTENANCE DEPARTMENT, UTILITIES DIVISION

Street No.: MARINE CORPS BASE

City, State, Zip: CAMP LEJEUNE, N. C. 28542

City Code: 0735

21. OFFICE COMPLETING FORM

BASE MAINTENANCE DEPARTMENT

22. COMPILER'S NAME

23. DATE
Month: 09
Year: 19 66

WATER ANALYSIS

By N. H. KELLAM

Date 1 JULY 41

Sample from WELL NO. 1 TENT CAMP AERA

184 ft Deep.

Total Solids	1280 PPM	Volatile Solids	PPM
Suspended Solids	60 "	Disolved Solids	1220 "
Phenolphthalein Alkalinity	30 "	Silica	24 "
Total Alkalinity	460 "	Ferrous Iron	0 "
Chlorides	380 "	Total Iron	1.5 "
Sulphates	106.4 "	Aluminum	1.6 "
Carbonates	60. "	Calcium	15.0 "
Bicarbonates	400 "	Magnesium	3.6 "
		Sodium	377.7 "
pH 8.4		Soap Hardness as $CaCo_3$	"
		Mineral Hardness as $CaCo_3$	60.8 "

Odor STRONG H_2S

Turbidity SLIGHT

REMARKS

WATER ANALYSIS

By _____

Date 8-13-43

Sample from WELL A
TENT CAMP

Total Solids _____ PPM Dissolved Solids _____ PPM

Suspended Solids _____ PPM Volatile Solids _____ PPM

Phenol. Alk. as $CaCO_3$ 0 PPM Silica as SiO_2 _____ PPM

Total Alk. " " 430 " Ferrous Iron as Fe _____ "

Carbonates " " _____ " Total Iron as Fe 0.2 "

Bicarbonates " " _____ " Aluminum as Al. _____ "

Chlorides as Cl. 410 " Calcium as Ca. _____ "

Sulphates as SO_4 _____ " Magnesium as Mg. _____ "

Nitrites as No_2 _____ " Sodium as Na. _____ "

Carbon Dioxide as CO_2 _____ "

pH 8.1 Soap Hardness as $CaCO_3$ 86 PPM

Odor _____ Turbidity _____

REMARKS _____

WATER ANALYSIS

By N. H. Kellam

Date 6/9/42

Sample from Well A at TCA.

Total Solids _____ PPM Dissolved Solids _____ PPM

Suspended Solids _____ PPM Volatile Solids _____ PPM

Phenol. Alk. as $CaCo_3$	36 PPM	Silica as Sio_2	_____ PPM
Total Alk. " "	480 "	Ferrous Iron as Fe	_____ "
Carbonates " "	72 "	Total Iron as Fe	_____ "
Bicarbonates " "	408 "	Aluminum as Al.	_____ "
Chlorides as Cl.	350 "	Calcium as Ca.	_____ "
Sulphates as SO_4	_____ "	Magnesium as Mg.	_____ "
Nitrites as No_2	_____ "	Sodium as Na.	_____ "
Carbon Dioxide as CO_2	_____ "		

pH 8.2 Soap Hardness as $CaCO_3$ _____ PPM

Odor H₂S Distinct Turbidity 5

REMARKS _____

16 July, 1941

Study of the chlorine demand on Well No. 1 in Tent Camp Area.

PPM Cl_2 Added	Residual Cl_2 after 30 min.
0.5 PPM	0.0 PPM
1.0 "	0.0
1.5	0.7
2.0	.88
2.5	1.06
3.0	.7
3.5	0.0
4.0	0.0
4.5	0.0
5.0	.53
5.5	.7
6.0	1.06
6.5	1.59

By: _____
N. H. Kellam
Chemist

July 7, 1941

BACTERIOLOGICAL ANALYSIS OF WATER FROM TEMPORARY CAMP AREA.

Well #1

Coli-aerogenes Group 50 cc---------10cc------0--------

1 cc----0----0.1cc----------

Total count after 24 hours at 37.50C

Colonies per cc Nutrient Agar-4000 Litmus Agar-4000 Acid-0

Well #3

Coli-aerogenes Group 50cc---------10cc------0--------

1cc----0----0.1cc----------

Total Count after 24 hours at 37.50c

Colonies per cc Nutrient Agar-5000 Litmus Agar-5000 Acid--0--

From the main corner First and D Streets

Coli-aerogenes Group 50cc---------10cc present

1cc present 0.1cc----------

Total count after 24 hours at 37.5°C

Colonies per cc nutrient agar-3000 Litmus Agar 3000 Acid 50

By N. H. Kellam
Chemist

July 7, 1941

RESTRICTED MEDICAL REPORTS OF TAKING SPECIAL TEMPORARY
LEAVE ABSENCE

Well #1

Oil-separator Group 80 oo---------100o-----0-------

1 oc---0---0.1oo----------

Total Count after 24 hours at 57.50c

Columns per cc Nutrient Agar-5000 Litmus Agar-1000 Acid-0

Well #2

Oil-separator Group 80oo---------100o-----0-------

1oo---0---0.1oo----------

Total Count after 24 hours at 57.80o

Columns per cc Nutrient Agar-5000 Litmus Agar-5000 Acid-0--

From two main ocean fish and 3 species

Oil-separator Group 8000---------100o present

1oo present 0.1oo----------

Total count after 24 hours at 57.5°C

Columns per cc nutrient agar-5000 litmus Agar 5000 Acid-00

Dr M. E. Sellon
Chemist

1 July 1941

CHEMICAL ANALYSIS OF WELL NO. 1 IN TEMPORARY AREA

Total Solids		1280	PPM
Suspended Solids		60	"
Dissolved Solids		1220	"
Phenolphthalein Alkelinity		30	"
Total	"	460	"
Chlorides		380	"
Sulphates		106.4	"
Carbonates		60	"
Bicarbonates		400	"
Silica as SiO_2		24	"
Magnesium & Manganese as Mg		3.6	"
Sodium & Potassium as Na		377.7	"
Total Iron		1.5	"
Ferrous Iron		0	
Alumnium Oxide		1.6	"
Calcium		15.0	"
Total Hardness as $CaCO_3$		60.8	"
PH	Above	8.4	

By_____
N. H. Kellam
Chemist

J. H. Kellam
Chemist

1 July 1941

CHEMICAL ANALYSIS OF WELL NO. 1 IN TEMPORARY AERA

Total Solids	1280	PPM
Suspended Solids	60	"
Dissolved Solids	1220	"
Phenolphthelein Alkelinity	30	"
Total "	460	"
Chlorides	380	"
Sulphates	106.4	"
Carbonates	60	"
Bicarbonates	400	"
Silica as SiO_2	24	"
Magnesium & Manganese as Mg	3.6	"
Sodium & Potassium as Na	377.7	"
Total Iron	1.5	"
Ferrous Iron	0	
Aluminum Oxide	1.6	"
Calcium	15.0	"
Total Hardness as $CaCO_3$	60.8	"
PH Above	8.4	

By _____
N. H. Kellam
Chemist

31 July 1941

Chemical Analysis of Well No. 1 in Temporary Area

Total Solids	1320	PPM
Suspended Solids	60	"
Dissolved Solids	1260	"
Phenolphthalein Alkalinity	28	"
Total "	436	"
Chlorides	356	"
Sulphates	118.3	"
Carbonates	56	"
Bicarbonates	380	"
Silica & Ins in HCl	40	"
Iron & Aluminum Fe	5.2	"
Calcium	40	"
Magnesium	6.4	"
Sodium & Potassium	338	"
pH	above	8.4
Odor	(Slight H_2S)	

By_____
H.H.Kellam
Chemist

31 July 1941

Chemical Analysis of Well No./ in Temporary Acra

Total Solids	1320	PPM
Suspended Solids	60	"
Dissolved Solids	1260	"
Phenolphthalein Alkalinity	28	"
Total "	436	"
Chlorides	356	"
Sulphates	118.3	"
Carbonates	56	"
Bicarbonates	380	"
Silica & Ins in HCl	40	"
Iron & Aluminum Fe	5.2	"
Calcium	40	"
Magnesium	6.4	"
Sodium & Potassium	338	"
pH	above 8.4	
Odor	(Slight H_2S)	

By_____
N.H.Kellam
Chemist

1 July 1941

CHEMICAL ANALYSIS OF WELL NO. 1 IN TEMPORARY AREA

Total Solids		1280	PPM
Suspended Solids		60	"
Dissolved Solids		1220	"
Phenolphthalein Alkelinity		30	"
Total	"	460	"
Chlorides		380	"
Sulphates		106.4	"
Carbonates		60	"
Bicarbonates		400	"
Silica as SiO_2		24	"
Magnesium & Manganese as Mg		3.6	"
Sodium & Potassium as Na		377.7	"
Total Iron		1.5	"
Ferrous Iron		0	
Alumnium Oxide		1.6	"
Calcium		15.0	"
Total Hardness as $CaCO_3$		60.8	"
PH	Above	8.4	

By_____
N. H. Kellam
Chemist

CHEMICAL ANALYSIS OF WELL NO. 1 IN NORTHEAST AREA

Total Solids	1280	P.P.M.
Dissolved Solids	60	"
Undissolved Solids	1220	"
Phenolphthalein Alkalinity	30	"
Total "	460	"
Chlorides	380	"
Sulphates	68.4	"
Carbonates	60	"
Bicarbonates	402	"
Silica as SiO_2	24	"
Magnesium & Manganese as Mg	7.6	"
Sodium & Potassium as Na	372.7	"
Total Iron	1.2	"
Ferrous Iron	0	"
Aluminum Oxide	1.6	"
Calcium	15.0	"
Total Hardness as $CaCO_3$	60.8	"
PH	Above	6.8

By

K. E. Kollman
Chemist