

WATER SUPPLY WELL LOG

Lusty 3560

WELL NO. 0175 WORK ORDER NO. 7026 LOCATION Newhalen DATE STARTED 11/19/66
 TIME COMPLETED 2/20/67 DRILLER Dirksen & Pooler TYPE OF RIG Hillman-Fairbanks
 TOTAL DEPTH 128'7" FT. CASING INSTALLED 43'2"-6in.-- 127'10"-4inch
 GROUT Aqua-gel
 SCREEN MATERIAL 1-.030 slot Johnson LENGTH 5'8" DIAMETER 4inch
 PRODUCTION: HRS PUMPED 62 STATIC WATER LEVEL 17'10" FT. AVAILABLE DRAWSOWN 105 FT.
 YIELD 15 GPM DRAWSOWN 17 feet FT SPECIFIC CAPACITY 60 GPM

DATE	DEPTH IN FEET		FORMATION	DRILLER
	FROM	TO		
11/9/66	0	6	Clay & Gravel	
	6	16'6"	Clay, gravel & sand	
	16'6"	20'4"	Brown Clay	
	20'4"	23'8"	Brown Clay & Gravel	
	23'8"	31'6"	Gravel some clay	
	31'6"	44'2"	Blue clay & gravel	
11/10	44'2"	66'9"	Hard pan and sand	
11/11	66'9"	86'	Green hard pan & sand	
11/12	86'	113'7"	Green slate	
11/13	113'7"	125'1"	Blue slate	
11/13	125'1"	128'6"	White limestone with cracks carrying water.	
Operation on this well was closed down on 11/15/66 until 2/3/67 because we could only get the 4 inch casing down to 42'2" because of rock and hard pan. Ordered an underreamer was waiting on it to come in so we could get the casing down to bottom.				
				<i>Dirksen & Pooler</i> Foreman II well driller

565-33-210001-1

UNITED STATES DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY
 WATER ANALYSIS

2GW 3560

Location Nehtalen, Alaska (Anchorage) County _____
 Well # 4 Depth (ft) 128 Diam (in.) _____
 Used to (ft) _____ Date drilled 2/21/67 Point of coll. Discharge
 Owner BIA _____
 Treatment _____ Use Domestic
 WBF _____ WI _____ Yield _____
 Temp (°F) 36 Appear when coll. Clear
 Collected 2/21/67 By R.E. Longbotham
 Remarks _____

	ppm	epm		ppm	epm
Silica (SiO ₂)	15		Bicarbonate (HCO ₃)	24	0.39
Aluminum (Al)			Carbonate (CO ₃)	18	0.60
Iron (Fe)	0.14				
Carbon Dioxide (CO ₂)	0.1		Sulfate (SO ₄)	5.0	0.10
Alkalinity as CaCO ₃	49		Chloride (Cl)	3.9	0.11
			Fluoride (F)	0.1	0.01
Calcium (Ca)	4.0	0.20			
Magnesium (Mg)	0.0	0.00	Nitrate (NO ₃)	0.4	0.01
Sodium (Na)	27	1.17			
Potassium (K)	0.0	0.00			
Total		1.37	Total		1.32

	ppm		
		Specific conductance (micromhos at 25° C)	124
Dissolved solids:		pH	8.9
Calculated	86	Color	5
Residue on evaporation at 180° C			
Hardness as CaCO ₃	10		
Noncarbonate	0		

SL 5-33-21 (B/D/H)

Lab. No. Col 9992 Field No. _____ Project BIA

PIT TOILET

RADIO ANTENNA POLE

GRAVEL PLAYGROUND - PARKING AREA

ROAD TO ILIAMNA

SCHOOL QTRS.

WATER WELL

STORAGE CACHES

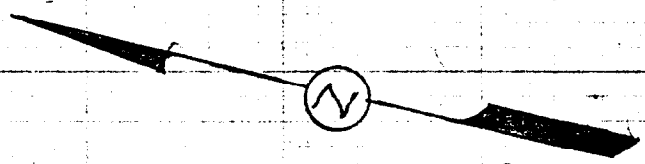
SLIGHT PLANT

PIT TOILET

250 GAL DAY TANK

ROAD TO NEWHALEN

1286
SC 5-33-21-DDCD 1-1



SCALE 1" = 50'

NEWHALEN, ALASKA

SC 5-33-21-DDCD 1-1