



687

**STATE OF ALASKA**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF MINING, LAND & WATER**  
**Alaska Hydrologic Survey**

**WATER WELL LOG** Revised 08/18/2016

Drilling Started: \_\_\_/\_\_\_/\_\_\_ Completed: 2 / 1 / 1978 Pump Install: \_\_\_/\_\_\_/\_\_\_

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Municipality of Anchorage	GOLDEN HILLS ESTATES	<b>B1</b>	<b>L05</b>	<b>FOREMOST CONSTRUCTION ,</b>

**Well location: Latitude** \_\_\_\_\_ **Longitude** \_\_\_\_\_  
 Meridian S \_\_\_\_\_ Township 012N Range 003W Section 14 , NE 1/4 of NW 1/4 of NE 1/4 of SE 1/4

**BOREHOLE DATA:** (from ground surface)  
 Suggest T.M. Hanna's hydrogeologic classification system\*  
[https://my.ngwa.org/NC\\_Product?id=a185000000BYub3AAD](https://my.ngwa.org/NC_Product?id=a185000000BYub3AAD)

	Depth	
	From	To
sandy soil with surface water	0	20
muddy sandy clay with some gravel	20	27
sandy gravel some clay	27	40
sand gravel	40	47
hard pan	47	53
loose gravel	53	59
coarse gravel, some clay	59	62
sandy gravel, some clay	62	67
brown sand, some clay formation	67	112
gray clay, some sand and gravel	112	141
drilled ahead, some seepage, thin muddy formation mostly silty sand	141	147
clay and gravel	147	155
sand and gravel aquifer	155	163
hard gravel and clay	163	175
silty watery formation	175	180
gravel and clay	180	210
sand silty formation	210	215

**Drilling method:**  Air rotary,  Cable tool,  Other \_\_\_\_\_  
**Well use:**  Public supply,  Domestic,  Reinjection,  Hydrofracking  
 Commercial,  Observation/Monitoring,  Test/Exploratory,  Cooling,  
 Irrigation/Agriculture,  Grounding,  Recharge/Aquifer Storage,  
 Heating,  Geothermal Exploration,  Other \_\_\_\_\_  
 Fluids used: \_\_\_\_\_

Depth of hole: 217 ft Casing stickup: \_\_\_\_\_ ft  
 Casing type: \_\_\_\_\_ Casing thickness: \_\_\_\_\_ inches  
 Casing diameter: \_\_\_\_\_ inches Casing depth: \_\_\_\_\_ ft  
 Liner type: \_\_\_\_\_ Depth: \_\_\_\_\_ ft Diameter: \_\_\_\_\_ inches  
 Note: \_\_\_\_\_

Well intake opening type:  Open end,  Open hole,  Other \_\_\_\_\_  
 Screen type: \_\_\_\_\_, Screen mesh size: \_\_\_\_\_  
 Screen start: \_\_\_\_\_ ft, Screen stop: \_\_\_\_\_ ft, Perforated  Yes  No  
 Perforation description: \_\_\_\_\_ Perf from: \_\_\_\_\_ ft, Perf to: \_\_\_\_\_ ft, Perf to: \_\_\_\_\_ ft  
 Gravel packed  Yes  No Gravel start: \_\_\_\_\_ ft, Gravel stop: \_\_\_\_\_ ft  
 Note: \_\_\_\_\_

Static water (from top of casing): \_\_\_\_\_ ft on \_\_\_/\_\_\_/\_\_\_ Artesian well   
 Pumping level & yield: \_\_\_\_\_ feet after \_\_\_\_\_ hours at \_\_\_\_\_ gpm  
 Method of testing: \_\_\_\_\_  
 Development method: \_\_\_\_\_ Duration: \_\_\_\_\_  
 Recovery rate: \_\_\_\_\_ gpm  
 Grout type: \_\_\_\_\_ Volume \_\_\_\_\_  
 Depth: From \_\_\_\_\_ ft, To \_\_\_\_\_ ft

Include description or sketch of well location (include road names, buildings, etc.):

Final pump intake depth: \_\_\_\_\_ ft Model: \_\_\_\_\_  
 Pump size: \_\_\_\_\_ hp Brand name: \_\_\_\_\_  
 Was well disinfected upon completion?  Yes  No  
 Method of disinfection: \_\_\_\_\_  
 Was water quality tested?  Yes  No  
 Water quality parameters tested: \_\_\_\_\_

Well driller name: \_\_\_\_\_  
 Company name: COOK INLET DRILLING  
 Mailing address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: AK Zip: \_\_\_\_\_  
 Phone number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Driller's signature: \_\_\_\_\_  
 Date: \_\_\_/\_\_\_/\_\_\_

Anchorage Municipal Code 15.55.060(I) and North Pole Ordinance 13.32.030(D) require that a copy of this well log be submitted to the Development Services Department/City within **30 days of well completion**.

City Permit Number: \_\_\_\_\_  
 Date of Issue: \_\_\_/\_\_\_/\_\_\_  
 Parcel Identification Number: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

AS 41.08.020(b)(4) and AAC 11 AAC 93.140(a) require that a copy of the well log be submitted to the Department of Natural Resources within **45 days of well completion**. Well logs may be submitted using the online well log reporting system available at:  
<https://dnr.alaska.gov/welts/>  
 OR email electronic well logs to  
[dnr.water.reports@alaska.gov](mailto:dnr.water.reports@alaska.gov)

\*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press

THIS WELL LOG IS A DUPLICATE; DATA IS  
015-122-31 S<sup>1</sup>/<sub>2</sub> NE<sup>4</sup> NW<sup>4</sup> NE<sup>4</sup> SEC 14  
T12N, R3W, S<sup>1</sup>/<sub>2</sub>M. ALREADY IN USGS WATSTORE

1363  
687

Drilling Contractor: Cook Inlet Waterwell Drilling Co.  
1424 E. 27<sup>th</sup> Ave. Anch. Ak. 99504

Property Owner: Formost Construction

Location of Well: Lot 5 BLK 1 Golden Hills

Depth of Well: 162' 9" Diameter: 6"

- Drilling Log:
- 0-20' Sandy soil with surface water at about 15'
  - 20-27' Muddy sandy clay with some gravel
  - 27-40' Sandy Gravel some clay drilled ahead about 18"
  - 40-47' Sand Gravel, won't drill ahead, bounces while driving, moves we
  - 47-53' Hard Pan won't drive. Rock at 53'
  - 53-59' Loose gravel, can't drill ahead.
  - 59-62' coarse gravel some clay
  - 62-67' sandy gravel some clay drilled 2' ahead
  - 67-112' drilled open hole in brown sandy some clay formation  
from 2'-10' ahead at a time.
  - 112-141' turned to gray clay, some sand and gravel
  - 141-147' drilled ahead, some seepage thin muddy formation mostly  
silt, sand a 148'. not usable
  - 147-155' drilled ahead in clay and gravel to 154' started seeping  
drove casing to 154' 11" at grade level. ~~marked~~ casing stopped  
hard after falling through formation at rate of 2 beats/min  
while driving drilled out and developed  
3 gal./min. clean, good gravel, static level 50' from  
pump's head @ 3 gal./min, 15' from bottom.
  - 155-162' 9" drove through thin seal into large sandy gravelly aquifer  
at 156' with bottom at 162.6" from grade  
developed about 10-15 gal. per min. at a 20' head

Static level: 58' from bottom

Yield: 15 gal / min 25' head

Driller: *Bill Errol Cook*  
2-1-78

LOCAL NO. SB 12-3-14 DABA1-48  
USGS SITE ID 610749149444901

1263  
687

Drilling Log

Cook Inlet Waterwell Drilling  
1424 E. 27<sup>th</sup> Ave Anch. Ak 99504  
276-2025

RECEIVED

Property Owner

Formost Services  
349 4631

JUN 4 1982  
Div. Of Geological Survey  
Anchorage

Location of Well

Lot 5 Blk 1 Golden Hills Subdivision

Depth of Well

217' 2 1/2"

Diameter 6"

Drilling Log

- 162' 9" - 175' Hard Gravel and Clay
- 175' - 180' Silty Warty formation
- 180' - 210' Gravel and Clay
- 210 - 215 Sand Silty formation
- 215 - 217' 2 1/2" Coarse Sand and Gravel Solid bottom

Static Level

aprox 120' off bottom

Yield

aprox 80 gal/min

Driller

Jim Enol Cook