42233

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: 7 / 21 / 1987 Pump Install: ___/___/_____

City/Borough	Subdivision	Block	Lot	Property Owner Name & Address
Denali Borough				Denali Crows Nest Cabins BOX 700 AK, 99755

Well location: Latitude 63.74681000000001 **Longitude** -148.89446
Meridian F Township 013S Range 007W Section 34 , SW 1/4 of NW 1/4 of SE 1/4 of NW 1/4

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

	Depth From	To
TOPSOIL	0	2
BROWN SILT SAND GRAVEL	2	81
WHITE ROCK SOFT	81	108
WHITE ROCK HARD	108	130
WHITE ROCK FRACTURED	130	134
WHITE ROCK HARD	134	147
GRAY ROCK MED HARD	147	156
GRAY ROCK HARD	156	215
DARK GREY ROCK MED SOFT	215	224
DARK GREY ROCK MED HARD	224	259
DARK GRAY ROCK SOFT	259	264
BLACK ROCK MED HARD	264	290
GRAY ROCK	290	320
GRAY ROCK AND QUARTZ	320	352
DARK GRAY ROCK	352	390
GRAY BLACK ROCK	390	450
GRAY GRANULAR ROCK	450	490

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

North

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: 500 ft Casing stickup: _____ft
Casing type: _____ Casing thickness: 6 inches
Casing diameter: _____ inches Casing depth: 580 ft
Liner type: _____ Depth: _____ ft Diameter: _____inches
Note: _____

Well intake opening type: ☐ Open end, ☐ Open hole, ☒ Other perforated
Screen type: 0.25, Screen mesh size: _____
Screen start: _____ ft, Screen stop:_____ ft, Perforated ☐ Yes ☒ No
Perforation description:_____ Perf from: _____ ft, Perf to: _____ft, Perf from: _____ ft, Perf to: _____ ft
Gravel packed ☐ Yes ☒ No Gravel start: _____ ft , Gravel stop:_____ ft
Note: _____

Static water (from top of casing): 120 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

Final pump intake depth: 504 ft Model: _____
Pump size: 1.5 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: MOORE DRILLING .....
Mailing address: PO BOX 874527 .....
City: WASILLA State: AK Zip: _____
Phone number: (_____) _____- _____
Driller's signature: _____
Date: _____/_____/_____

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

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: _____-_____-_____

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

42233

(LAS 2933)

WATER WELL RECORD
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURES
Division of Geological & Geophysical Surveys

ATION OF WELL (Please complete either Ia, Ib or Ic.)

Drilling Permit No. _____
A.D.L. No. _____

Borough	Subdivision	Lot	Block	Ib. ¼ qtrs.	Section No.	Township	Range	Meridian
N.A.	U.S. Survey	5545		—of—of—of—	34	13 N ☐ S ☒	7 E ☐ W ☒	F.M.

DISTANCE AND DIRECTION FROM ROAD INTERSECTIONS
mile 238.5 Parks Hwy.

Street Address and Area of Well Location

3. OWNER OF WELL:
Denali Crows Nest Cabins
Address: Box 700
Denali AK. 99755

WELL LOG Material Type	Feet Below Surface Top	Bottom
Top Soil	0	2
rown Silt Sand & Gravel	2	81
White Rock Soft	81	108
White Rock Hard	108	130
hite Rock Fractured H2O	130	134
White Rock Hard	134	147
Gray Rock medium Hard	147	156
Gray Rock Hard	156	185
ght Gray Rock hard	185	205
ark Gray Rock med Hard	205	215
ark Gray Rock med Soft	215	224
Dark Gray med hard	224	259
ght & Dark Gray Rock Soft	259	264
lack Rock med Hard	264	290
Gray Rock	290	320
ray Rock & Quartz	320	352
ark Gray Rock	352	390
Gray Black Rock	390	450
ay Granular Rock	450	490
ight Gray Rock Hard	490	580
ell Perforated from 120'-240'		
" " " 454-460		
" " 548-560		

4. WELL DEPTH: (final) 580 ft.

5. DATE OF COMPLETION 7-21-87

6. ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Auger ☐ Jetted ☐ Bored ☐ Other

7. USE: ☐ Domestic ☒ Public Supply ☐ Industry ☐ Irrigation ☐ Recharge ☐ Commerical ☐ Test Well ☐ Other:

8. CASING: ☐ Threaded ☒ Welded
diam. 8 in. to 90 ft. Depth Weight _____ lbs./ft
diam. 6/4 in. to 290/580 ft. Depth Stickup 65 ft

9. FINISH OF WELL:
Type: Perforated Diameter:
Slot/Mesh Size: ¼ Length:
Set between _____ ft. and _____ ft
Backfilling _____ Gravel pack _____

10. STATIC WATER LEVEL: 120 ft. 7/21/87 Date
☐ Above or ☒ Below land surface
Equipment used: Tape

11. PUMPING LEVEL below land surface and YIELD
_____ ft. after 8 hrs. pumping 8 g.p.m.
_____ ft. after _____ hrs. pumping _____ g.p.m.

12. GROUTING Well Grouted: ☐ Yes ☒ No
Material: ☐ Neat Cement ☐ Other:

13. PUMP: (if available) HP 1½
Length of Drop Pipe 504 ft. capacity 8 g.p.m.
☒ Subm. ☐ Jet ☐ Centrifical ☐ Other

14. REMARKS:

15. Water Temperature 34° ☒ F ☐ C

WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief;

Moore Drilling Inc — Registered Business Name
AI4145 — Contract License Number
Address: P O Box 874528 Wasilla AK 99687
Signed: Steve Moore — Authorized Representative
Date: 7-23-87

USGS Local No. _____

02-WWR (11/81) Copy Distribution: WHITE - State DGGS, PINK - Driller, CANARY - Customer