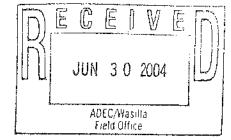
### EROMAN & ASSOCIATES

#### Consulting Engineers / Water Testing Laboratory

5200 Dunbar Drive Wasilla, AK 99654

Phone Fax 907-376-6989 907-373-2157



April 21, 2004

Mr. Ronald Schrank c/o John Paoletti - Alaska Realty & Investments PO Box 4356 Palmer, AK 99645

Re: L4/B3 Devon Wood Div. #1; Documentation of New Septic Tank;

E&A Project #04035

Mr. Schrank,

On April 20, 2004, we verified the installation of a new septic tank at the referenced property, as recommended in our letter of April 19, 2004.

Documentation of the new tank installation is attached. Please call if you have any questions or need additional information.

Sincerely,

Michael R. Erdman, P.E.

# -

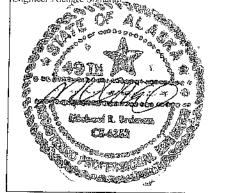
#### **ERDMAN & ASSOCIATES**

Consulting Engineers/Water Testing Laboratory 5200 Dunbar Drive Wasilla, AK 99654 376-6989

# ON-SITE WATER AND SEWER SYSTEM DOCUMENTATION OF CONSTRUCTION

I. GENERAL INFORMATION						
Legal Description of the Location	·				···	
Lot 4, Block 3 Devon	Wood Div.	† <b>!</b>				
Installer		Submitted	יער			
		☐ Certi	fied Installer			
John Paoletti Mailing Address		Д Аррг	oved Homeowner	•		
Wanting Address		Regis	stered Engineer			
			System Serves:			
City, State, Zip Code		Single Duple	Family 4 Bedro Ex Bedrooms	DI175		
			Commercial (<50	00 gpd)		
IL WATER SUPPLY SYSTEM	••••					
Source of Water and Containment (Check all that Apply)		Type of Water Supply Syste				
Well (Drilled or Driven)   Surface	(Idemify	SF/Duplex	5111			
Roof Catchment						
☐ Holding Fank ☐ Other	(Idenufy)	☐ Public				
Well Data		:				
Is the height of the well casing more than I.	2" above the gro	and?		☐ Yes	□ No	
Is a sonitary scal or well cap installed on the	well casing?			☐ Yes	□ No	
is drainage directed away from or around the	e casing within:	a radius of 10 feet of the wel	1 casine <sup>a</sup>	□ Yes	□ No	
Is well wire enclosed in conduit?						
Date Driffed Depth of Well (Feer)		Static Water Level (Feet)		Yield (If available)	No Pump Rate (If available)	
		Same which edited in epily		ticia in areatable)	rump Kate (1) available)	
Separation Distance from the Well Casing to each of the Fo	Blowing Solveres	of Contamination:				
Septic/Holding Tank on Lot	Sewer Lines of			Absorption Area on Lot		
	<u> </u>		ı			
Closest Septic/Holding Tank on Adjacent Lot	Lines on Adjacent Ior		Clusest Edge of an Absor	osest Edge of an Absorption Area on Adjacent Lot		
If toxic materials are stored on the property, including fuel	anks naints lub	oricants and other newslaum		On Lot	Tour Asian and Tax	
based materials, pesticides, fungicides or herbicides, indica-	e distance from	contaminants to well cassin	2:	( ):1 1,4,1(	On Adjacent Lot	
Water Sample Taken by: (Name)				Sampler is:	<u> </u>	
Address				🗌 Виует	Engineer	
Truti 653				_ □ Banker	Government Official	
Water Sample Results				Dulker	Covernment Official	
Attach Copy Satisfacti	ory - Date		🗆 Unsatisfac	itory - Date		
Comments/Recommendations:						
The above information is correct to the best of my knowledg	e and beheff. The	s report does not constitute a	warranty of accil	sirul		
Signature	Typed/Printed N	laine	Title		Date	
('A)(h))	Michael R.	Erdman, P.E.	CE 6252		4/21/04	
· · · · · · · · · · · · · · · · · · ·			1		. , , , , , , , , , , , , , , , , , , ,	

III. WASTEWATER DISPOSAL				Legal Description: Lot 4, Block 3 Devon Wood Div. #1					
Septic Tank w/ Conventional Soil Absorption System			Small Commercial System - Estimated Flow 500 gpd Criteria used to estimate wastewater flow: EPA DESIGN MANUAL						
☐ NEW SYSTEM		BED 4 51	o Trans engradurem	ich oweren	(NT - C - 2) (T				
Name of Installer	John Paoleti		OFTER	NG SYSTEM	(New Septic 1	Date Date		4/20/04	
System Installed:		pection by a l	Registered En	gineer				7/20/07	
Septic Tank:	eptic Tank: Material; Manufacu Steel Steel		Manufactur	er: Greer	•	Size (gal): 1,250	Number c	f Compartments:	
Type Soil Absorption Sys	stem	Dimensions	Size Soil Ah	sorption Syste	:E1)	Grading/Size/Thickne	ess of Distributi		
Soil Classification:		<u></u>		Soil Rating:					
Percolation Test Results (	Attach Copy o	of Report)		Percolation	Test Performe	d By:			
Minimum Ground Cover		IN at a formation of	round Cover		la comitation	1.73	la:		
Septic Tank;		Absorption 2			Sewer Pipes	round Cover over	Feet Cleanout 1	Pipes/Caps Installed	
Separation Distances from		Avisor patent A	· \1C(1),	- 4 rcci		Distances from Bottom		Yes No	
Public Water Source		Water Bodie	S	> 100 Feet	Groundwate.		or Olstribution	> 4 Fee	
Private Water Source	> 100 Feet				i	permeable Layer		> 6 Fee	
Separation Distance from	Absorption A	rea to Slope E	xceeding 25%	·				> 50 Fee	
This report is based System appears to m	upon limited eet applicabl	inspections le ADEC reg	during cons gulations and	uruction, and direquiremen	l upon infon nts.	mation and/or photog	graphs provide	d by installer.	
_									
	·								
e above information is corregineer's Seal & Signature	of to the best of								
The second of th		] '	Typed/Printed N - Michael R	<sub>anne</sub> Erdman, P.I		Fille, Reg./Cert No.	ľ	Pale 4/21/04	
A OF A		į.	witchaet R.	ratumun, P.I	<u>-</u>	CE6252		7/4/09	



#### James W. Rowland, P.E. Palmer, AK 99645

September 28, 1999

Loren Dodds 600 Golden Hills Drive Wasilla, AK 99654

#### LETTER OF VERIFICATION

Re:

Lot 4, Block 3, Devon Wood, Division #1

Single Family On-Site Water & Wastewater Disposal System Documentation

You have requested verification that the wastewater disposal system for the four (4) bedroom, single-family, dwelling on this property was designed and installed in conformance with the current ADEC regulations and policies.

An appropriately sized soil absorption system was designed for this dwelling based upon the in situ soil conditions. This system was installed in compliance with all current ADEC regulations and specifications. The enclosed record documents were prepared based upon information obtained from field observations. The data is reasonable and represents that the wastewater disposal system was installed in general conformance with current Alaska Administrative Code, Title 18, Chapter 72 Wastewater Disposal.

The location of the wastewater disposal system, relative to property lines or any easements, is shown on the enclosed certified as-built survey.

The water system had an average flow rate of 30 gpm on a test conducted by Pioncer Pacific on April 15, 1998. A water sample tested satisfactory for Coliform bacteria.

All performance data presented under this letter is based upon the testing performed on the dates shown. I can not warrant or guarantee the future performance or the installation of either the wastewater disposal system or the water system. I can only state that the water system appears to be adequate and that the wastewater absorption system was properly installed.

If you have any questions or desire any further information, please feel free to contact Denali North at any time.

Sincerely,

James W. Rowland, P.E.

CE 6754

13 6/54

Date Received	
N	

Signature

#### STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

#### APPLICATION FOR ON-SITE WATER AND SEWER SYSTEM APPROVAL

9-28-99

OR DOCUMENTATION OF SYSTEM INSTALLATION WO# 98-256 L GENERAL INFORMATION Legal Description of the Location **DEVON WOOD, DIVISION #1** Lot 4, Block 3 Applicant Name: Applicant is: (Check one) Loren Dodds □ Bank ☐ Certified Installer, No. ☑ Owner/builder ☐ Engineer Mailing Address Type of Residence: Total Number Bedrooms 600 Golden Hills Drive Single Family ☐ Multi-Family City, State, Zip Code Telephone: Wasilla, Alaska 99654 376-1801 Send Approval to: Denali North 847 W. Evergreen Ave. ☐ Applicant Other (Give Name & Address) Palmer, Alaska 99645 II. WATER SUPPLY SYSTEM Source of Water and Containment (Check all that Apply) Type of Water Supply System Treatment of Water (Check all that Apply) ■ Well (Drilled or Driven) ☐ Surface (Identify) 🗷 Private □ None ☐ Chlorination ☐ Roof Catchment ☐ Filtration ☐ Mineral Removal Holding Tank ☐ Other (Identify) D Public (Serves more than one E Other: unknown family) Well Data Is the height of the well casing more than 12" above the ground? ⊠ Yes ∏ No Is a sanitary seal or well cap installed on the well casing? ☑ Yes □ No Is drainage directed away from or around the casing within a radius of 10 feet of the well casing? Yes □ No Is well wire enclosed in conduit? 国 Yes □ No Date Drilled Depth of Welt (Feet) Static Water Level (Feet) Yield (If available) Pump Rate (If available) \* 4/15/98 \* 100' \* 61' \* 30gpm unknown Separation Distance from the Well Casing to each of the Following Sources of Contamination: Septic/Holding Tank on Lot Sewer Lines on Lat Absorption Area on Lot 100+ 100+' Closest Septle/Holding Tank on Adjacent Lot Closest Sewer Lines on Adjacent Lot Closest Edge of an Absorption Area on Adjacent Lat 100+7 25±1 100+7 If toxic materials are stored on the property, including fuel tanks, paints, lubricants and other petroleum None Visible Within based materials, posticides, fungicides or herbicides, indicate distance from contaminants to well easing: 25+1 25+7 Water Sample Taken By: (Name) Sumpler is: Denali North 🗆 Buyer Engineer Address 847 W. Evergreen Avenue Palmer, AK 99645 ☐ Bonker ☐ Government Official Water Samples Results: Attach Copy 9/23/99 Satisfactory ☐ Unsatisfactory - Date Comments/Recommendations: \* Indicates information taken from Well Log. I certify that the above information, and that provided in Section IV, is correct:

Typed/Printed Name

James W. Rowland

CE 6754

#### WO# 98-256

III. WASTE	WATER DISPOSAL		Legal Des	-	W3 W 7 & 7 & 7 & 7		The The West of Co.	CONT 44	-		
			Lot 4, Block 3 DEVON WOOD, DIVISION #1								
				ify Brand Name or Process)							
□ Holding	Fank - Specify	☐ Capacity of Tank	☐ Capacity of Tank			P	requency of	Pumping			
🗷 Septic Ta	nk Outfall Discharged To:			Disposed  Disposed						<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
	subsurface			(Outhor	ase Incine	rator, c	tc.)				
M NEW SYS	TEM										
Name of Inst						Date	Installed	n/n	100		
John Heni BOwner/Bui		Installer 🗀 Other:	<del></del>	Septic Tar	ak Trone/N	fanufac	turer	9//	/98		
ENOMINATION	No.		<del></del>	Depth Im	ar i jpon	1001EILEAC		ch. Tank	ί.		
Septic Tank 5		Number of Compar 2	tments	Soil Type	and Ratii	rg	225 G	f /hdreen			
	v sorption System	Dimensions/Size Soil Absorp	ntion System	335 S.f./bdrm  n System Type/Quantity Backfill Material Used for							
1	eep Trench	112' x 6	_				System 3/4			k/95cy	
Percolation T	est Results (Attach Copy of	- · .	on Test by:	(Name)			-				
Minimum Grou	40 mpi and Cover over Absorption	Minimum Ground Cover over Se	i North	Cleanout Pi	hee/Cana t	nstallud a		Cleanant F	Pines#To	ps Installed on	
Area	4+ Feet	4+	reet.	Septic Tank			Na Na	Absorption			i⊒ Ne
Separation Distance To:	Water Supply Source on Let	Nearest Water Supply Source on	l	Nearest Boo	-		Water Table			Lot Line	
	100+ Feet	Adjacent Lot 100+	Feet	<u> </u>	100+	Fect	4/0	5+	Feet	10+	Feet
Comments/Re	ecommendations										
Denali Nor	th inspected the insta	diation of the new soil al	bsorption	system to	verify t	hat it (	complies :	with ADE	CC reg	gulations a	and
specification	os. Denali North doc	es not warrant or guarar	itee the fu	ture perfe	rmance	e or th	e installa	tion of the	e com	ponents.	
On 9/22/99	Denali North verifie	d system has not been us	ed.								
6 <sup>1</sup> 11		-8 41 8 1-41									
Cleanout is		of the foundation.				· ····································					
Signature/	00	Typed/Printed N	anc		Title, Re	g./Cert i	No., Inst. No	-	Date		
- Annual Contraction of the Cont	re Kombant	James W. R			CE				9-	-28-9	9
	NOTE: Must be signed by	a Certified Installer, Profession	ial Engineer,	DEC staff, o	r approve	d Owne	r/Builder				
□ EXISTING	SYSTEM										
Name of Insta	ller				•	Date I	nstalled				
DOwner/Buile		Installer 🔲 Other:		Septic Tan	k Type/M	anufact	urer				
Septic Tank Si	No.	Number of Compartments		Soil Two	and Dudle				· · · • · · ·		
		•		Soil Type	and Katan	g 					
Type Soil Abse	orption System	Dimensions/Size Soil Absorpt	tion System		pe/Quani il Absorp		dill Materia tem	Used for			
Adequacy Tes	t results <i>(Attach Copy of Re</i> Pass  I	,	Performed t					Tank Pum	ped <i>(An</i>	tach Copy of	Receipt)
Minimum Grou		Minimum Ground Cover eyer		Classical Ma	(4 <sup>2</sup> ) Y.	4.13.4		Ol IN		T	
Absorption Area	Feet	Septic Tunk	Feet	Cleanout Pip Septic Tank	es/Caps in E Yes		No No	Absorption		s Installed on A Yes	□ No
Separation Distance To:	Water Supply Source on Lot I Feet	Nearest Water Supply Source on Adjacent Lot	Feet	Nearest Body	y of Water Fee		Water Table	Bedrock Feet	] ]	Lot Line	Fect
	commendations		1444	· · · · · · · · · · · · · · · · · · ·		. ,		Peec			Feet
Cleanout is	located of	the foundation.									
		at provided in Section IV, is co	errect:		·· <del>- ··· ··-</del>						
Signature		Typed/Printed	Name	uriena CIF Aj	Title.	Reg./Ce	rt No.		n	ate	<del>.</del>
	MOMP. I.E.		47 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	OF A	199	_					
	NOTE: Must be signed by a	Trojessional Engineer.	AR VIOL	A S O D PP PP N C G							
			ATT AT A TO TO	e l'	1.5 Tr 64" "	6					

Annue VI. Resployed

Ce - 6754

SEAL Registered Professional Engineer

(1.) OWNER:	(10.) LOCATION OF WELL:
Name LABREN DODDS	Borough 11 14 + 50 Driller's well number
Address	
	Tax Lot # ZT4 BIK3 DIVISION
(2.) TYPE OF WORK (check):  New Well Deepening	Address at well location: Devon wood  Lucille
(3.) TYPE OF WELL: (4.) PROPOSED USE (check):	(11.) WATER LEVEL: Completed Well
Rotary Air	Static Level 6 ft. Below land surface. Date 4-15  Artesian pressurelbs. per square inch. Date
(5.) CASING INSTALLED: Steel □ Plastic □ Threaded □ Welded □	Andrew Communication and the Control of the Section of the Control of Section 1995 and the Control of the Control of Section 1995 and the Control of Section 1
	(12.) WELL LOG:  Depth drilled 100 ft. Depth of completed well 100 ft.
"Diam. fromft. toft, Gauge	Formation: Describe color, texture, grain size and structure of materials; and
LINER INSTALLED:	show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static
"Diam. from ft. to ft. Gauge	Water Level and indicate principal water-bearing strata.
(6.) PERFORATIONS: Perforated?	MATERIAL FROM TO SWL
Type of perforator used	Harafan 068
Size of perforationsinin	brave1 68 100
perforations from ft. to ft.	
perforations fromft. toft.	30 Gal
perforations fromft, toft.	11110
(7.) SCREENS: Well Screen Installed? ☐ Yes 🗖 No	
Manufacturer's Name	
Type Model No	
DiamSlot SizeSet Fromft. toft,	
Diam Slot Size Set From ft. to ft.	
(8.) WELL TESTS: Breakdown is amount water level is lowered below static level	
Yieldgat./min. withft. drawndown afterhrs.	
Yield gal./min. with ft. drawndown after hrs.	
307 gal./min. with drill stem atfthrs.	
gammi, war om stemat	
This well was drilled under my jurisdiction and this report is	
true to the best of my knowledge and belief.	
Name: PIONEER PACIFIC	
Address: 1012 872174 299687	Completed date: AP(1/15,1998
Signed) Harris CI SI	

# DENALI NORTH P.O. Box 870086

Wasilla, Alaska 99687

## SOIL LOG

PERCOLATION

TEST

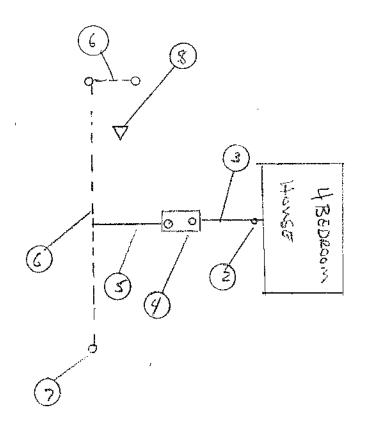
# PERCOLATION TEST

BEDACOMS

SOIL LOG

			10	DB NUMBER: 1	8.520	
PERFORMED FOR:		<u> </u>	DA	ATE PERFORMED:	9-5-98	š
LEGAL DESCRIPTION: DEVONVOOR	カ料し	L-4 B.				
0.05 OL. MC			PE	SITE	PLAN	
1 -1.9/. )			Z			
2 5-2 51164 SIFTNOY	Sool REDISK	Brown				<del>   </del> -
The second secon						<del></del>
3 - Brancela	えきひ					╌ <del>╎╸</del> ╌╏╌╌╏
4 - 22.42 SAND W/Shight	TRACE OF	5.14				<del></del>
5 - 5						
6 -						
7 - 3				<del>   </del>		<del> - - -</del>
-				<del></del>		<del>-  </del>
8 - 0		}	<del>  - </del>		_ _	<u> </u>
9 -		<u> </u>				<del></del>
10 - 3		L				
11-10			1	W	<del></del>	
	WAS GROUND ENCOUNTERED		ts s			
12 - 0		7	O P			
13 - 3	IF YES, AT WHA	AT (	2 E			<del>                                     </del>
14 - 91						
	Reading	Date	Gross Time	Nel Time	Depth to	Net
15 J. GENYISh BROWN	/	9.5.98	7:58	START	Water 6'17	STAKT
16			8:28	BOMIA	5/2	1/2"
And the second s	3	<del> /</del>	8:58	' )	5 1/4"	3/4"
341131111111111111111111111111111111111	-5	<del> /</del>	7:28	- '\	51/9"	3/4/
18 5 -0 48-18° Rock 2"8"		1	9:58	11	54"	3/4 "
19—				, , , , , , , , , , , , , , , , , , , ,		
20						
DEPTH (FEET)	PERCOLATION R	IATE	40			
	TEST RUN BETW	·		(minute	s/inch)	
. ( )	35 SOF	1		FT FT		
	,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					
ERFORMED BY: 1-10- WE WINDLOY	CERTIF	TED BY:	∑C√		DATE:	<u> 58/19</u>
•						

NOTE: NOT TO EXALE



CACILLE\_ST

LEGEND.

1) WELL

2) Foundation Clean out

3) 4" DIA. Elic. 40
ABS SEWER
LINE At 2%
GRADE

4) 1250 GAL. Steel 2 comp Anchorage SEpte Tank

5)4"DIA SCL 40
ABS DISCHARGE
LINE At 1%
GAHDE

6) Y" PUL perf Riper Lipio Level

71) Monchartabe

8.) rest 1401E

DENALI NORTH P.O. BOX 870086 Wasilla, AK 99687 373-1110

SOIL ABSORPTION SYSTEM

DESPTREACK

9-7-98 98-256 S.W

LEGAL DESCRIPTION

DEVON WOOD DIN - L-4 B-3

