Groundwater Application Review Summary Form

Application # 0	3-18654		
GW Reviewer	Phil Maray	Date Review Completed:	11/21/2018

Summary of GW Availability and Injury Review:

[] Groundwater for the proposed use is either over appropriated, will not likely be available in the amounts requested without injury to prior water rights, OR will not likely be available within the capacity of the groundwater resource per Section B of the attached review form.

Summary of Potential for Substantial Interference Review:

[] There is the potential for substantial interference per Section C of the attached review form.

Summary of Well Construction Assessment:

[] The well does not appear to meet current well construction standards per Section D of the attached review form. Route through Well Construction and Compliance Section.

This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations and for conditions that may be necessary for a permit (if one is issued).

WATER RESOURCES DEPARTMENT

N	E	N	1	0

Nov. 21 ,20 18

то:	Application G18654	
FROM:	GW: <u>PliD Marcy</u> (Reviewer's Name)	

SUBJECT: Scenic Waterway Interference Evaluation

R	YES NO	The source of appropriation is within or above a Scenic Waterway
□ 중	YES NO	Use the Scenic Waterway condition (Condition 7J)

- Per ORS 390.835, the Groundwater Section is **able** to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below.
- Per ORS 390.835, the Groundwater Section is **unable** to calculate ground water interference with surface water that contributes to a scenic waterway; **therefore**, **the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway**.

DISTRIBUTION OF INTERFERENCE

Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Exercise of this permit is calculated to reduce monthly flows in ______ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
								. Section			

Memo

To: Kristopher Byrd, Well Construction and Compliance Section Manager
From: Joel Jeffery, Well Construction Program Coordinator
Subject: Review of Water Right Application G-18654
Date: November 26, 2018

The attached application was forwarded to the Well Construction and Compliance Section by Water Rights. Phil Marcy reviewed the application. Please see Phil's Groundwater Review and the Well Log.

Applicant's Well #2 (MALH 54429): Based on a review of the Well Report, Applicant's Well #2 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). In order to meet the minimum well construction standards, the well must be continuously cased and continuously sealed to a minimum depth of 54 feet below land surface. Under reamed seals cannot be placed in consolidated formations.

My recommendation is that the Department **not issue** a permit for Applicant's Well #2 (MALH 54429) unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is in compliance with current minimum well construction standards.

Bringing Applicant's Well #2 (MALH 54429) into compliance with minimum well construction standards may not satisfy hydraulic connection issues.

WELL I.D. LABEL# L	126977
START CARD #	103786
ODICINAL LOC #	

Page 1 of 1

STATE OF OREGON	MALH	54429		I.D. LABE			
WATER SUPPLY WELL REPORT	= /1 1 /	2010		ART CAR	100	7861	
(as required by ORS 537.765 & OAR 690-205-0210)	5/11/2	2018	ORIG	INAL LOO	G #		
(1) LAND OWNER Owner Well I.D. First Name VERNON Last Name KEFFER		(9) LOCAT				-	
Address 1043 US HWY 20-26		County MALHEU					
City ONTARIO State OR Zin 97914		Sec <u>29</u> <u>N</u>	<u>NW</u> 1/4	of the <u>NE</u>	1/4	Tax Lot 40	0
	version	Tax Map Numbe Lat° Long°	er	" or 12 0904	0400	Lot	DMS or DD
Alteration (complete 2a & 10) Abandonment(co	omplete 5a)	Lat		- or -117.11	456700		_ DMS or DD
(2a) PRE-ALTERATION		Long	eet address o	f well	Nearest a	address	
Casing: To Gauge Stl Plstc Wld Thrd Material From To Amt sacks/lbs		1043 US HWY		-			
Seal:		(10) STATIC	WATER	LEVEL			
X Rotary Air Rotary Mud Cable Auger Cable Mud					Date S	WL(psi) +	SWL(ft)
Reverse Rotary Other		Existing We Completed	ell / Pre-Alter				
		Completed		3/17/2 ng Artesian?		ry Hole?	29
(4) PROPOSED USE X Domestic Irrigation Community							18.00
Industrial/Commericial Livestock Dewatering		WATER BEARI	NG ZONES				
ThermalInjectionOther		SWL Date	From	То	Est Flow	SWL(psi)	+ SWL(ft)
(5) BORE HOLE CONSTRUCTION Special Standard (A	Attach copy)	3/17/2018	118	145	43		29
Depth of Completed Well 160.00 ft.							
BORE HOLE SEAL	sacks/						
	Amt Ibs						
	18 S						
	13 8						
	13	(11) WELL I	LOG	Ground Ele	vation		
How was seal placed: Method A A B C D	E		Material			From	То
X Other POUR		clay brown				0	18
Backfill placed from ft. to ft. Material		clay brown/ san	d			18	25
Filter pack from ft. to ft. Material Size		sand/gravel	4			25	35 49
Explosives used: Yes Type Amount		clay brown/ sand clay blue	u			49	118
(5a) ABANDONMENT USING UNHYDRATED BENTONI		blue/ tan sandsto	one			118	145
Proposed Amount Actual Amount		clay blue				145	160
(6) CASING/LINER							
Casing Liner Dia + From To Gauge Stl Plstc							
\bullet	×						
● 4.5 □ 20 120 sdr17 ●							
Shoe Inside Outside Other Location of shoe(s)							
Temp casing Yes Dia From + To							
(7) PERFORATIONS/SCREENS							
Perforations Method Screens Type certa-lok Material pvc		Date Started 2	20/2018	(omplete	d <u>3/17/2018</u>	
Perf/ Casing/ Screen Scrn/slot Slot # of	Tele/				-		
Screen Liner Dia From To width length slots	pipe size	(unbonded) W					
Screen Liner 4.5 120 160 .02 11 7000	0 4.5	I certify that the abandonment of					
		construction sta					
		the best of my k					
		License Numbe	-		Date		
(8) WELL TESTS: Minimum testing time is 1 hour					-		
$\bigcirc Pump \qquad \bigcirc Bailer \qquad \bigcirc Air \qquad \bigcirc Flowing A$	Artesian	Signed					
		(bonded) Wate	r Well Const	ructor Cert	ification		
Yield gal/min Drawdown Drill stem/Pump depth Duration (1 43 160 2	111 <i>)</i>	I accept respons				ing alteration	or abandonme
		work performed	on this well	during the co	instruction	dates reported	above. All wo
		performed duri	ng this time	is in comp	bliance wit	th Oregon wa	ater supply we
Temperature 56 °F Lab analysis Yes By		construction star	ndards. This	report is true	to the best	t of my knowl	edge and belief.
Water guality concerns? Yes (describe below) TDS amount 335	ppm	License Numbe	r 1943		Date 3/	17/2018	
From To Description Amount	Units						

Signed TRINITY VILLINES (E-filed)

Contact Info (optional)_

ORIGINAL - WATER RESOURCES DEPARTMENT

THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK Form Version:

PUBL	IC INT	EREST	Γ REVIE	W FOR G	ROUND	WATER	APPLIC	CATIONS					
TO:		Water	Rights S	ection				Date	e <u>11/21/2</u>	2018			
FROM	:	Groun	dwater Se	ection		Phillip I. Marcy							
							ewer's Name						
SUBJE	CT:	Appli	cation G-	18654		Suj	persedes r	eview of					
											Date of Rev	view(s)	
OAR 69 welfare, to deter	90-310-1 safety al mine whe	30(1) T and healt between the	<i>The Departs</i> <i>h as descru</i> <i>e presumpt</i>	<i>ibed in ORS</i> ion is establi	<i>resume that</i> 537.525. D shed. OAR	<i>t a propose</i> Department 690-310-	<i>ed groundv</i> staff revie 140 allows	water use will of w groundwate the proposed d agency poli	r applicat use be mo	tions un odified	nder OAI or condi	R 690-31 tioned to	0-140 meet
A. <u>GE</u>	NERAL	INFO	RMATIO	<u>DN</u> : A ₁	oplicant's N	Name:	Vernon &	Amelia Keff	er	(County: _	Malheu	<u>r</u>
A1.	Applica	nt(s) see	ek(s) = 0.12	2cfs from	n <u>1</u>	well(s) in the	Malheur					Basin
						subb	asin						
A2.	Propose	ed use _	Irri	gation (10 ac	eres)	Seas	onality:	March 1 st – Oc	tober 31 ^s	^{it} (245	days)		
A3.	Well an	d aquife	er data (att	ach and nu	mber logs f	for existin	g wells; m	ark proposed	wells as	such u	inder log	gid):	
Well	Logic	t	Applicant Well #	's Propos	ed Aquifer*	Prop Rate			Location (T/R-S QQ-Q)		Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36		
1	MALH 54	4429	Well 2	A	lluvium	0.1	12	18S/46E-29 N	W-NE	33	0'S, 2226'V	W fr NE co	r S 29
2													
* Alluvii	um, CRB,	Bedrock											
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perfora Or Scro (ft)	eens	Well Yield (gpm)	Draw Down (ft)	Test Type
1	2243	118	29.0	03/17/2018	160	0-20; 49- 75	0-75	20-120	120-1		43	NA	Air

Use data from application for proposed wells.

Comments: The proposed POA well (MALH 1222) is constructed to produce from alluvium, likely the Glenns Ferry A4. Formation. See attached chart for detailed well construction and lithology information.

A5. Provisions of the <u>Malheur</u> Basin rules relative to the development, classification and/or management of groundwater hydraulically connected to surface water \Box are, or \boxtimes are not, activated by this application. (Not all basin rules contain such provisions.) Comments: _____

A6. Well(s) #

_____, ____, ____, ____, ____, tap(s) an aquifer limited by an administrative restriction. Name of administrative area:

Comments:

B. GROUNDWATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070

- B1. Based upon available data, I have determined that groundwater* for the proposed use:
 - a. **is** over appropriated, **is not** over appropriated, *or* **cannot be determined to be** over appropriated during any period of the proposed use. * This finding is limited to the groundwater portion of the over-appropriation determination as prescribed in OAR 690-310-130;
 - b. will not or will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the groundwater portion of the injury determination as prescribed in OAR 690-310-130;
 - c. \square will not or \boxtimes will likely to be available within the capacity of the groundwater resource; or
 - d. **will, if properly conditioned**, avoid injury to existing groundwater rights or to the groundwater resource:
 - i. \Box The permit should contain condition #(s) _____
 - ii. The permit should be conditioned as indicated in item 2 below.
 - iii. The permit should contain special condition(s) as indicated in item 3 below;

B2. a. Condition to allow groundwater production from no deeper than ______ ft. below land surface;

b. Condition to allow groundwater production from no shallower than ______ ft. below land surface;

- c. Condition to allow groundwater production only from the groundwater reservoir between approximately______ft. and ______ft. below land surface;
- d. Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Groundwater Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc):

B3. **Groundwater availability remarks:** <u>Nearby observation well MALH 1222 reports stable long-term water levels (see attached hydrograph)</u>. The proposed pumping rate is fairly low, thus the likelihood of impacting nearby groundwater users is also quite low. There are two nearby rights at approximately 1,740' distance from the proposed POA well. At this rate and distance in an unconfined to poorly confined system, drawdown is calculated to be less than 2 feet at either neighboring POA well using a Theis time-drawdown model and a range of aquifer values from nearby pump tests (see attached results).

C. GROUNDWATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. 690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Sand and gravel and underlying siltstone/sandstone of the		\boxtimes
	Glenns Ferry Formation (Tig) of GW Rep. #34.		

Basis for aquifer confinement evaluation: Overlying 'clay' described in well logs is actually predominantly silt and provides little confinement above the aquifer. There is evidence of a vertical pressure gradient driving groundwater upward from deeper Glenns Ferry sandstones and siltstones to shallower Quaternary sands, gravels, and silts. The degree of confinement, however, appears small as adjacent wells accessing the two horizons report groundwater elevations within a few tenths of a foot of one another (Gannett, 1990).

C2. **690-09-040** (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¹/₄ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED		Potentia Subst. Int Assum YES	terfer.
1	1	Malheur River	2214	2188	7900	\square			\boxtimes

Basis for aquifer hydraulic connection evaluation: There is no significant barrier to vertical groundwater migration between the productive water-bearing zone and the land surface. However, based upon the depth of the water-bearing zone and the distance to the Malheur River, this connection is likely highly inefficient, with any impacts from pumping are expected to be minimal.

Water Availability Basin the well(s) are located within: <u>Malheur R > Snake R – At Mouth (ID# 31011701)</u>

C3a. **690-09-040** (4): Evaluation of stream impacts for <u>each well</u> that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked 🖾 box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw> 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?

Page

C3b. **690-09-040** (**4**): Evaluation of stream impacts <u>by total appropriation</u> for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells**. Otherwise same evaluation and limitations apply as in C3a above.

-	valuation and miniations upply as in esta accord										
	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?	

Comments: This section does not apply.

C4a. **690-09-040** (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Well Well O	SW#	Jan											
-		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Well O	1	16.45 %	15.70 %	0.42%	1.97%	4.12%	6.43%	8.72%	10.92%	13.00%	14.96%	16.54%	16.90%
Weng	Well Q as CFS		0	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0	0
Interference CFS		.02	0.19	.001	.002	.005	.008	.010	.013	.016	.018	.020	.020
Distribi	uted Well	s											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
	as CFS												
Interfere	ence CFS												
(A) = Total Interf.		.02	0.19	.001	.002	.005	.008	.010	.013	.016	.018	.020	.020
(B) = 80 % Nat. Q		154	267	467	780	524	324	150	99.9	83.8	106	135	132
(C) = 1 % Nat. Q		1.54	2.67	4.67	7.80	5.24	3.24	1.50	.999	.838	1.06	1.35	1.32
(D) = ((A) > (C)								[Γ			
(E) = (A / A)	, , ,	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %	<1 %

Mineral Industries.

5

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: A Hunt (2003) calculation of expected stream depletion at the Malheur River from proposed pumping rate and location predicts a very small degree of interference from this use. Factors influencing these results are the low degree of confinement in lacustrine sediments of the Glenns Ferry Formation, relatively high transmissivity of overlying silts and sands, a fairly low proposed pumping rate, and distance to surface water.

	040(5)(b) The potential to impair or detrimentally affect the public interest is to be determined by the Watts Section.
under t	Derly conditioned , the surface water source(s) can be adequately protected from interference, and/or groundwater us his permit can be regulated if it is found to substantially interfere with surface water: The permit should contain condition #(s)
ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
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ii.	The permit should contain special condition(s) as indicated in "Remarks" below;
ii. SW / GW 1	The permit should contain special condition(s) as indicated in "Remarks" below; Remarks and Conditions:
ii. SW / GW 1	The permit should contain special condition(s) as indicated in "Remarks" below; Remarks and Conditions:
ii. SW / GW 1	The permit should contain special condition(s) as indicated in "Remarks" below; Remarks and Conditions:

Oregon and Owyhee County, Idaho, vector digital data, Geologic Map Series GMS-77, Oregon Department of Geology and

Application review G-16261, OWRD well log database, OWRD water level database.

D. WELL CONSTRUCTION, OAR 690-200

D1.	Well #: Logid:
D2.	THE WELL does not appear to meet current well construction standards based upon: a. review of the well log; b. field inspection by
D3.	THE WELL construction deficiency or other comment is described as follows:

D4.
 Route to the Well Construction and Compliance Section for a review of existing well construction.

Water Availability Tables

Time: 4:27 PM Date: 11/20/20 Month Natural Stream Consumptive Use and Flow Expected Stream Reserved Flow Instream Requirements Wai Availad Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft. Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft. -273.00 0.00 -273.90 MAR 467.00 911.00 -444.00 329.00 0.00 -774 APR 780.00 1,060.00 -278.00 470.00 0.00 -433 JUN 324.00 857.00 -533.00 0.00 0.00 -433 JUN 324.00 686.00 -536.00 0.00 -536 -440.00 0.00 -430 JUL 150.00 686.00 -536.00 0.00 -536 -440.00 0.00 -440.00 -440.00 0.00 -430 -430 -430 -430 -430 -430 -430 -430 -440.00 -440.00 -430 -430 -430 -430 -440.00 -440.00 -536	DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION									
Stream Use and Stream Stream Requirements Wat Flow Storage Flow Flow Availa Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft. JAN 154.00 427.00 -273.00 0.00 0.00 -273.59 MAR 467.00 911.00 -444.00 329.00 0.00 -774 APR 780.00 1,060.00 -278.00 470.00 0.00 -748 MAR 467.00 957.00 -433.00 0.00 0.00 -748 JUN 324.00 857.00 -536.00 0.00 -533 JUL 150.00 686.00 -536.00 0.00 -536 AUG 99.90 540.00 -440.00 0.00 -600 -536 AUG 99.90 540.00 -103.00 0.00 0.00 -292 OCT 106.00 209.00 -103.00 0.00 0.00 <			MALH		Exceedance Level: 80 Date: 11/20/2018					
JAN 154.00 427.00 -273.00 0.00 0.00 -273 FEB 267.00 626.00 -359.00 0.00 0.00 -359 MAR 467.00 911.00 -444.00 329.00 0.00 -774 APR 780.00 1,060.00 -278.00 470.00 0.00 -748 MAY 524.00 957.00 -433.00 0.00 0.00 -433 JUN 324.00 857.00 -533.00 0.00 0.00 -533 JUL 150.00 686.00 -536.00 0.00 0.00 -536 AUG 99.90 540.00 -440.00 0.00 0.00 -536 AUG 99.90 540.00 -292.00 0.00 0.00 -292 OCT 106.00 209.00 -103.00 0.00 0.00 -103	Month	Stream	Use and	Stream	Stream		Net Water Available			
FEB 267.00 626.00 -359.00 0.00 0.00 -359 MAR 467.00 911.00 -444.00 329.00 0.00 -774 APR 780.00 1,060.00 -278.00 470.00 0.00 -748 MAY 524.00 957.00 -433.00 0.00 0.00 -433 JUN 324.00 857.00 -533.00 0.00 0.00 -533 JUL 150.00 686.00 -536.00 0.00 0.00 -533 AUG 99.90 540.00 -440.00 0.00 0.00 -440 SEP 83.80 376.00 -292.00 0.00 0.00 -292 OCT 106.00 209.00 -103.00 0.00 0.00 -103		Monthly values are in cfs. Storage is the annual amount at 50% exceedance in ac-ft.								
	FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	267.00 467.00 780.00 524.00 324.00 150.00 99.90 83.80 106.00 135.00	626.00 911.00 1,060.00 957.00 857.00 686.00 540.00 376.00 209.00 223.00 297.00	-359.00 -444.00 -278.00 -433.00 -533.00 -536.00 -440.00 -292.00 -103.00 -87.90 -165.00	$\begin{array}{c} 0.00\\ 329.00\\ 470.00\\ 0$	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	-273.00 -359.00 -774.00 -748.00 -433.00 -536.00 -440.00 -292.00 -103.00 -87.90 -165.00			



Application G-18654

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