

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 55-13893

Exam Date: 4/27/2013

1. Current Owner: QUINTANA RANCH LIMITED PARTNERSHIP
C/O TIM QUINTANA
3876 HWY 95
HOMEDALE ID 83628
(208)337-5587
2. Accompanied by: Tim Quintana
Phone No: (208)337-5587
Address: 3876 US Hwy 95, Homedale, ID 83628
Relationship to Permit Holder: General Partner of the Quintana Ranch Limited Partnership; contact person

3. SOURCE TRIBUTARY
OLD MAN CREEK BIG BOULDER CREEK

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

OLD MAN CREEK NW1/4SE1/4 Sec. 1, Twp 07S, Rge 05W, B.M. OWYHEE County

Method of Determination: Garmin GPS Map 76S, 2011 and esri ArcMap Imagery

2.

PLACE OF USE: STOCKWATER STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07S	05W	1														X			

Method of Determination: Garmin GPS Map 76S, 2011 and esri ArcMap Imagery

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Photo of Diversion and System Attached

4.

Well or Diversion**ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge**
Size

No diversion rate required on this water right. The source was the Old Man Creek flowing from south to the north, through the in-stream stockwater pond, then continuing down the creek by way of a rock spillway located on the northeast side of the 7 ft high dam.

D. FLOW MEASUREMENTS

1.

Measurement**Equipment****Type****Make****Model No.****Serial No.****Size****Calib. Date**

None.

2. Measurements: None required.

E. FLOW CALCULATIONS

Measured Method: None required.

F. VOLUME CALCULATIONS

1. Volume Calculations for Stockwater Storage: 0.2 acre pond X 3 ft average depth = 0.6 AF + 0.5 AF E.T. = 1.1 AF

2. Volume Calculations for Other Uses: None

G. NARRATIVE/REMARKS/COMMENTS

At the time of the field examination, the Old Mann Creek was flowing slightly, south to north into the unlined stockwater storage pond. Located on the northeast side of the 7 ft dam, is a rock spillway (POD), where water continues to flow north. Beneficial Use is for 100 head cattle.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts****BENEFICIAL USE****PERIOD OF USE****ANNUAL VOLUME**

STOCKWATER STORAGE

01/01 to 12/31

1.10 AF

Totals:

1.10 AF

2. Recommended Amendments☐ Change P.D. as reflected above☐ Add P.D. as reflected above☒ None☐ Change P.U. as reflected above☐ Add P.U. as reflected above☐ Other**I. AUTHENTICATION**

Field Examiner's Name



Date: 10/15/2013

SWNE

average depth 3'

POD
rocked
spillway

1

07S05W

source:
Old Mann Creek

NWSE



POD:
rockies
spillway

PA
Average
depth
3'

04/27/2013



Source
Old
Mann
Creek

04/27/2013

55-13893

S. Hemmenway

* Use the Precipitation Deficit for 'P' value

ET_{Idaho} 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

Reynolds (NWS -- 107648)

Statistics based on thirty year normal spans 1975 to 2010 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Open water - shallow systems (ponds, streams)														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b
Mean ^j	mm/day												mm	
Monthly ^c	0.22	0.30	1.09	2.07	2.69	3.71	4.59	4.00	3.04	1.71	0.16	0.32	697	0
15-Day Moving Average ^d	0.24	0.19	1.16	2.12	2.71	3.69	4.66	3.98	2.94	1.78	0.15	0.22		
7-Day Moving Average ^e	0.24	0.25	1.13	2.07	2.69	3.67	4.64	4.01	2.99	1.73	0.13	0.26		
3-Day Moving Average ^f	0.23	0.29	1.09	2.06	2.68	3.69	4.60	4.01	3.03	1.71	0.15	0.31		
Standard Deviation ^k	mm/day												mm	
Monthly ^c	0.71	0.53	0.99	0.80	1.81	1.01	0.68	0.69	0.61	1.06	0.68	1.29	106	0
15-Day Moving Average ^d	0.77	0.70	0.96	0.99	1.61	1.36	0.65	0.71	0.86	0.91	0.82	0.93		
7-Day Moving Average ^e	1.05	1.03	1.22	1.41	2.12	1.76	0.88	0.94	1.13	1.29	1.12	1.25		
3-Day Moving Average ^f	1.39	1.41	1.72	2.03	2.68	2.26	1.30	1.31	1.54	1.74	1.51	1.77		
20% Exceedance ^l	mm/day												mm	
Monthly ^c	0.20	0.77	1.58	2.70	3.64	4.60	5.05	4.41	3.57	2.18	0.87	0.21	814	0
15-Day Moving Average ^d	0.67	1.06	2.34	3.50	4.54	5.22	5.38	4.78	3.92	2.88	1.38	0.59		
7-Day Moving Average ^e	0.88	1.65	2.82	4.40	5.13	5.69	5.73	5.10	4.36	3.25	1.81	0.80		
3-Day Moving Average ^f	1.14	1.84	3.45	5.03	5.85	6.38	6.14	5.45	4.82	3.77	2.17	1.02		

80% Exceedance ^m	mm/day												mm		
Monthly ^c	-0.63	-0.17	0.45	1.42	2.00	2.70	3.99	3.56	2.35	1.02	-0.38	-0.84	599	0	599
15-Day Moving Average ^d	-1.43	-0.97	-0.24	0.44	0.23	1.79	3.22	2.59	1.46	0.41	-1.32	-1.57			
7-Day Moving Average ^e	-2.90	-2.08	-1.67	0.69	-1.80	0.57	2.36	1.32	0.61	-1.31	-2.93	-2.97			
3-Day Moving Average ^f	-4.54	-4.09	-4.35	2.96	-5.76	3.94	0.76	-2.31	2.59	3.84	5.25	4.85			
Ave Highest P_{def}	mm/day												--		
15-Day Moving Average ^g	0.40	0.77	1.83	2.96	3.72	4.65	5.10	4.52	3.54	2.43	0.81	0.37			
7-Day Moving Average ^h	0.73	1.32	2.42	3.73	4.55	5.38	5.47	4.89	4.11	2.98	1.28	0.67			
3-Day Moving Average ⁱ	0.94	1.62	3.01	4.36	5.38	5.98	5.94	5.28	4.59	3.45	1.70	0.91			
Ave Lowest P_{def}	mm/day												--		
15-Day Moving Average ^g	-0.83	-0.28	0.41	1.24	1.64	2.75	4.10	3.46	2.38	1.11	-0.44	-0.93			
7-Day Moving Average ^h	-1.70	-1.08	-0.69	0.09	-0.06	1.36	3.28	2.69	1.60	0.07	-1.39	-1.82			
3-Day Moving Average ⁱ	-3.26	-2.71	-2.66	1.94	-2.69	0.67	1.64	1.08	0.16	-1.73	-2.89	-3.75			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	-0.23	-0.03	0.07	0.51	-0.57	1.00	0.18	-0.14	0.82	0.28	0.46	0.53	-0.21	0.00	-0.21
Kurtosis ^o	0.88	2.36	0.71	3.84	1.52	4.09	0.55	0.54	2.65	1.11	3.18	1.42	1.97	0.00	1.97

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

^c Mean of the average daily value for month

^d Mean of the fourteen 15-day period averages contained in the month

^e Mean of the twenty three 7-day period averages contained in the month

^f Mean of the twenty seven 3-day period averages contained in the month

^g Mean of the highest/lowest 15-day period average in month

^h Mean of the highest/lowest 7-day period average in month

ⁱ Mean of the highest/lowest 3-day period average in month

^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.

^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.

^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.

^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.

ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.

^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

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The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2012. *Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008*, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.

Questions regarding the data should be addressed to [Clarence W. Robison](#) or [Richard G. Allen](#), University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610