

C.L. "BUTCH" OTTER Governor

GARY SPACEMAN Dispuss

August 30, 2018

SEE ATTACHED DISTRIBUTION LIST

Re: Application for Permit No. 63-34403

Dear Interested Party:

The above referenced application may be of interest to you. I would like to inform you that the application has been submitted to the *Mountain Home News, Idaho Statesman, Post Register, Lewiston Morn Tribune,* and *Times News* for **Statewide** advertising. I have enclosed a copy of the application for your convenience. This information is also available on our website <u>www.idwr.idaho.gov</u>.

If you desire to file a formal protest against approval of the application, a written protest along with the \$25.00 protest fee must be received in this office by **September 24, 2018**. A copy of the protest must also be sent to the applicant.

If you have any questions regarding the application, please contact this office at 208-334-2190.

Sincerely,

Rachel Neely Administrative Assistant Western Regional Office

Enclosures

DISTRIBUTION LIST

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SCOTT L CAMPBELL CAMPBELL LAW CHTD PO BOX 170538 BOISE ID 83717 scott@slclexh20.com For: ELMORE COUNTY BOARD OF COMMISSIONERS ELMORE COUNTY COURTHOUSE 150 S 4TH E STE 3 MOUNTAIN HOME ID 83647 MATTHEW J MCGEE SPINK BUTLER LLP 251 E FRONT ST STE 200 **PO BOX 639** BOISE ID 83701 mmcgee@spinkbutler.com For: Elmore Co. Board of Commissioners

SPF WATER ENGINEERING LLC C/O TERRY SCANLAN 300 E MALLARD DR STE 350 BOISE ID 83706 tscanlan@spfwater.com For: Elmore Co. Board of Commissioners

CITY OF BOISE C/O ABIGAIL GERMAINE PO BOX 500 BOISE ID 83701-0500 agermaine@cityofboise.org

IDAHO POWER CO JOHN K SIMPSON BARKER ROSHOLT & SIMPSON LLP 1010 JEFFERSON ST STE 102 PO BOX 2139 BOISE ID 83701-2139 jks@idahowaters.com For: IDAHO POWER CO PO BOX 70 BOISE ID 83707-0070

IDAHO CONSERVATION LEAGUE MARIE CALLAWAY KELLNER PO BOX 844 BOISE ID 83701 mkellner@idahoconservation.org

UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT IDAHO STATE OFFICE FRED PRICE 1387 S VINNELL WAY BOISE ID 83709-1657 fwprice@blm.gov S BRYCE FARRIS DANIEL V STEENSON ANDREW J WALDERA SAWTOOTH LAW OFFICES PLLC 1101 W RIVER ST STE 110 PO BOX 7985 BOISE ID 83707 bryce@sawtoothlaw.com dan@sawtoothlaw.com andy@sawtoothlaw.com For: BALLANTYNE DITCH CO LTD

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170 N SIERRA VIEW WAY EAGLE ID 83616

BOISE VALLEY IRRIGATION DITCH CO 8750 N BOGART LN BOISE ID 83714

FARMERS COOPERATIVE DITCH CO PO BOX 69 PARMA ID 83660

MIDDLETON MILL DITCH CO MIDDLETON IRRIGATION ASSN INC PO BOX 848 MIDDLETON ID 83644-0214

NAMPA & MERIDIAN IRRIGATION DISTRICT 1503 FIRST ST S NAMPA ID 83651

NEW DRY CREEK DITCH CO C/O KARI ROSTI 1460 N POLLARD LN STAR ID 83669

PIONEER DITCH CO LTD PO BOX 70 STAR ID 83669 PIONEER IRRIGATION DISTRICT 3804 S LAKE AVE CALDWELL ID 83605 SETTLERS IRRIGATION DISTRICT 1910 N GARDEN ST BOISE ID 83706

SOUTH BOISE WATER CO PO BOX 6005 BOISE ID 83707

THURMAN MILL DITCH CO LTD 10611 W TREELINE CT BOISE ID 83713 ALBERT P BARKER SHELLEY M DAVIS BARKER ROSHOLT & SIMPSON LLP 1010 W JEFFERSON ST STE 102 PO BOX 2139 BOISE ID 83701-2139 apb@idahowaters.com smd@idahowaters.com For: BOISE PROJECT BOARD OF CONTROL

2465 OVERLAND RD BOISE ID 83705

> RIVERSIDE IRRIGATION DISTRICT LTD 120 N THIRD ST PO BOX 1080 PARMA ID 83660

CHRISTOPHER H MEYER MICHAEL P LAWERENCE GIVENS PURSLEY LLP 601 W BANNOCK ST PO BOX 2720 BOISE ID 83701-2720 chrismeyer@givenspursley.com mpl@givenspursley.com

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For: SUEZ WATER IDAHO INC 8248 W VICTORY RD BOISE ID 83709

UNITED STATES OF AMERICA BUREAU OF RECLAMATION C/O GAIL MCGARRY 1150 N CURTIS RD STE 100 BOISE ID 83706-1234

WOOD CREEK RANCH LLC C/O JOHN FAULKNER 1989 S 1875 E PINE ID 83355

S BAR RANCH LLC CHRIS STEPHENS PO BOX 1065 SUN VALLEY ID 83353

MICHAEL ORR Michael.orr@ag.idaho.gov

											63-34403
FO	RM 202 11/	BOE	IVE	n						Ident.	BCEIVED
]	DEPA		STATE OF IDAHC INT OF WATER R	MAY 1 7 2017				
MAY 1 6 2017					TION FOR						
DEPARTMENT OF WATER RESOURCES								the public waters of th			ATER RESOURCES WESTERN REGION
1.	Name of	f applica	nt(s) Ca					<u> </u>		Phone 40	6-459-3013
	Mailing	address	398 S.				ck one):	and or 🔲 a	nd/or	City Bois	A
		2						Email jcarkulis@e	xeravdevelopmen	_	
2.								which			
	Location										
	TWP	RGE	SEC	Govt	1/4	1/4	1/4	County			
	1N	9E	26	Lot	- /4	SW	NW	County	Source		Local name or tag #
		95	20			SE	NW	Eimore "	South Fork Boi	se River	
						sw	NE	n	19	<u> </u>	<u> </u>
4.	Water w	ill be use	ed for th	e follov	ving ou	moses	:				
	Amount	9,99	96 cfs	for		-		Storage purpo	ses from 1/1	to 12	/31 (both dates inclusive)
		(cfs or acr				Power Storagepurposes from1/1					
		(cfs or acr	e-feet per	year)							
	Amount	10	0,000	for		Power	from S	Storage purpo	ses from1/1	to	(both dates inclusive)
	Amount	(cis or acr	006 ofo	for		Floc	d Prot	ection num	r Cat Creek E	ergy, L 12/	(both dates inclusive)
		(ers of act	e-ieet per	year)							
5.					l is (a)	9,9	996	_ cubic feet per seco	ond (cfs) and/or (b)	101,35	2 acre feet per year (af).
6.	Proposed		-						Description		
		ibe type		e of dev	vices us	ed to d	ivert w			n Ranch F	leservoir, penstock to
	2012			1	00	C					
	o. neigi	100 100, 100									total reservoir capacity
	dams										refill plan in item 11. For a separate Application for
								Dam. Application r			a separate Application for
							-	oposed depth of well	• –	—	
								85°F being sought?			
	e. If wel	l is alrea	dy drille	ed, whe	n?	_		_; drilling firm			;
	well v	vas drille	ed for (v	vell own	ner)				; Drilling	Permit No.	
7.	Descripti										
	a. Hydro	power;	show to	al feet	of head	l and p	oposed	capacity in kW. 60	0 MW		
	b. Stock	watering	; list nu	mber ar	d kind	oflive	stock.				
								ter Right Application	Care and the second		
	d. Dome	stic; sho	w numb	er of ho	ousehol	lds					
	e. Other	; describ	e fully. <u>-</u>	Flood	protec	tion-co	bordine	ated with BoR and	HSACE. + Creek Enore		
										, , ,	

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- 8. Description of place of use:
 - a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
 - b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC		NE		NW		SW			SE			TOTALS					
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	IUIALS
1N	9E	26			Р				Р	P			PS						
1N	9E	35	PS	PS	PS	PS	PS												
		36		PS	PS		PS		PS										
15	9e	oz	PS	P۶	PS	PS	PS		PS	PS									
		01					PS	PS	PS										
		11		PS			PS	PS	-	-		-	-			•			n I

Total number of acres to be irrigated: Q

9. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping?

None

10. a. Who owns the property at the point of diversion? U.S. Government

b. Who owns the land to be irrigated or place of use? Applicant has a lease with property owner Wood

c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. 5-b mitted via email.

See attached. Note: This application is subordinate to first and second fill of existing reservoirs in the Boise River Basin.

Consultant Contact :	Idaho Water Engineerin	a LIC Dave Tuthin
	2918 N El Rancho Pl	
·	Boise ID 83704	dave@ idahowaterengineering. com

12. Time required for completion of works and application of water to proposed beneficial use is 5 years (minimum I year).

13. MAP OF PROPOSED PROJECT REQUIRED - Attach an 8¹/₂" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Signature of Applicant CAt Creek Energy LLC Faulkner Manag

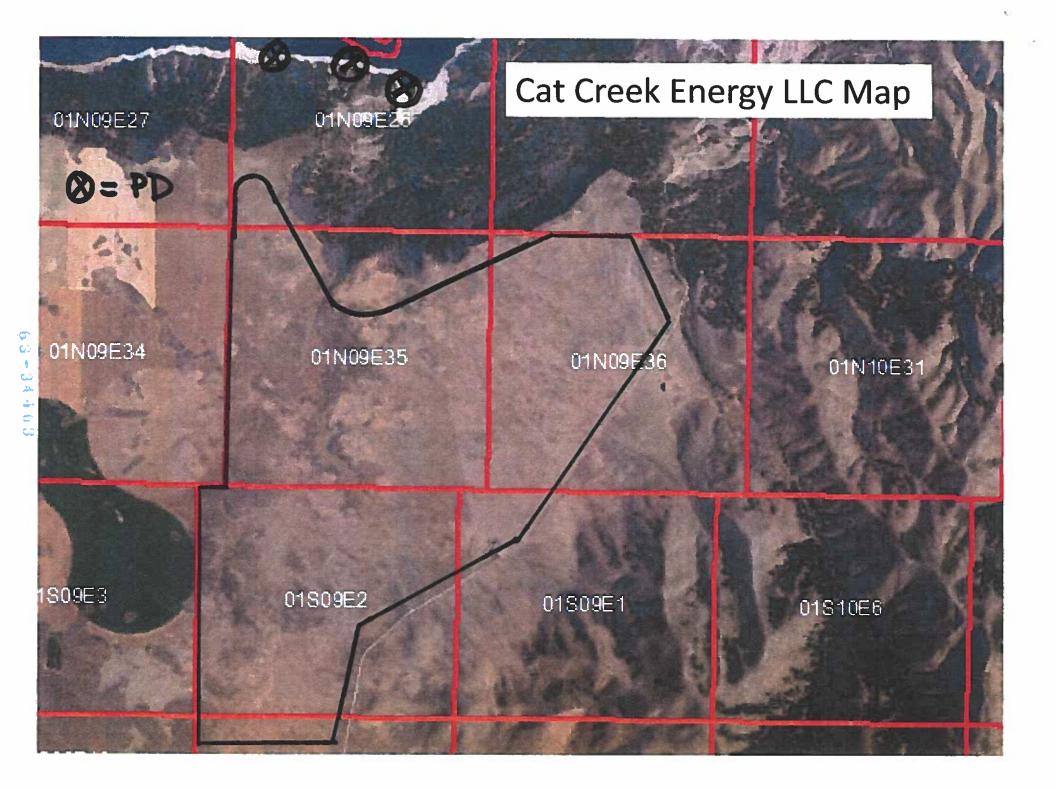
Print Name (and title, if applicably

Signature of Applicant

Print Name (and title, if applicable)

	For Dep:	artment Use:		
Received by	Date 5/10/17	Time 2:50	Preliminary check by	
Fee \$ 2940200	Receipted by	Receipt No. C103500	Date 5/10/17	
\$ 25602	· · · · · · · · · · · · · · · · · · ·			2

03-34403



251	FILED EFFECTIVE
CERTIFICATE OF CLIMITED LIABILI (Instructions on back 1. The name of the limited liability con CAT CREEK ENERGY, LLC 2. The complete street and mailing ac 1989 South 1875 East, Gooding, Idaho, (Street Address) (Mailing Address, if different than street address) 3. The name and complete street address	TY COMPANY 2013 MAY 14 AN 8: 51 sk of application) SECILE STATE ompany is: SECILE STATE ddresses of the initial designated office: 83330
John Faulkner (Name)	1989 South 1875 East, Gooding, ID 83330 (Street Address)
4. The name and address of at least of company: Name John Faulkner	one member or manager of the limited liability Address 1989 South 1875 East, Gooding, ID 83330
 5. Mailing address for future corresponent 1989 South 1875 East, Gooding, ID 833 6. Future effective date of filing (option Signature of a manager, member or person. 	330 mal):
Signature John FAULKNER	Secretario 944 566 566 567 567 567 567 567 567 567 567
Signature Typed Name:	CV. 6217E CT. 40720 NH. 4173303
9/21/2012	Gerlorg RC Rev. 07/2010 4 5 0 3

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SEEPAGE CALCULATIONS

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

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FILE NUMBER	Cat Creek Energy	User Input
REVIEWER		Calculated value
DATE		Formula Explanations
INPUTS		
SQ. FT. C Pond Surface 157	area in acres	
POND SURF	ACE AREA (SQ. FT.)	880
SUGGESTED SE	EPAGE RATE (FT/DAY) 0.00	Use the table below to find the "SUGGESTED SEEPAGE RATES".
(Surface Ar	FORMULA: ea X Seepage Rate) / 7.48 = Gallo	ns Per Day loss
CONVERT		GPD
TOTAL SE	EPAGE LOSS (AFA)	0.0 AFA
	SUGGESTED SEEPAGE RATE	S FOR DIFFERENT SOIL TYPES:
GW, GP, GM, GC, S	SW, SP and SM (silty sand, sand si	t mixtures and gravel mixtures) = 0.20 ft per day
OL and ML (inorgai	nic silts - very fine sands, silty, or cla	ayey fine sands) = 0.016 ft per day
	and clay mixtures) = 0.007 ft per da	iy i i i i i i i i i i i i i i i i i i
	plasticity clays) = 0.003 ft per day	
MH, OH, PT and Cl	I (high plasticity clays) = 0.0003 ft p	per day
	ers can be chemical, fabric, or bento	
Ponds Intercepting	g Groundwater (excavated ponds f	lled with shallow Ground Water) = 0 ft per day
PLEASE NOTE: The init	ial basis for the Suggested Seepage Rates i	the table above is found on Page 15 of
	ds, Bulletin 599, August 1989 Alabama Agi	

Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at

X:\Spatial\Soils\USCS\PondSoils.lyr. Use "0" if the ponds intersect the water table.

Evaporation Loss Calculation

FILE NUMBER	Cat Creek End	rgy
REVIEWER		
DATE		

The acronyms used on the					
Kimberly Research Center website					
are defined below:					
P = Precipitation					
ET= Evapotransporation					
P _d = Precipitation deficit					
P _d =ET-P					

User Input Galeplated value Formula Explanations This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

USING THIS SPREADSHEET

To ascertain the evaporation from a pond, you will need to go to the Kimberley Research Center website. The link is found below. This web site provides the Precipitation Deficit for the area where the pond is located. The Precipitation Deficit is the total amount of free pan evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used, and the entire state is pretty much covered. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at X:/Spatial/Climate/ETIdahostations.shp .

Found at: http://www.kimberly.uidaho.edu/ETIdaho/online.php

Precipitation:	Fairfield			PLEASE NOTE: We cannot use the seaso average, because there are several area				
Month	mm/day¹	Days per month	mm/Month	in Northern Idaho with a negative Precipitation Deficit. Therefore, we mu enter each monthly deficit, and enter in zero (0) for each negative month. The				
lan	0.00	31	0,00	reason for this is that precipitation can				
Feb	0.00	28	0,00	only offset evaporation to the extent of the evaporation.				
March	0.00	31	0.00					
April	0.46	30	13,80	Please enter the daily average				
May	0.96	31	29.76	Precipitation Deficit as shown in the				
June	1.21	30	36,30	example below.				
July	1.78	31	35,18	Although it has sometimes been useful				
August	1.69	31	52,39	consider wintertime evaporation to be				
September	1.23	30	36,90	zero, Allen and Robison (2007, p. 169) noted, "Evaporation during nongrowing				
October	1.22	31	37.82	(wintertime) periods varies widely				
November	0.00	30	0),00					
December	0.00	31	0,00	the state of the second second				

Negative monthly mean values should be entered in the above table as "0".

Total mm/year =	262.15

[(mm/yr) ÷(con	vert to fe	et)] X (Surface area of	pond, in acres) = E	vaporation Loss in Acre Feet
262.15	<u>.</u>	304.8) X	1573.00	1352.9 AFA
2、19.2012月2月	Surface A	rea of Pond is automatically Ca	rried over from the Seep	age Loss Sheet.

TOTAL STORAGE

This spreadsheet has been designed by Idaho Department of Water Resources to

estimate the total seepage, evaporation and fill capacity required for a pond

FILE NUMBER Cal, Greek Energy, RÉVIEWER DATE

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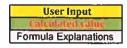
 Surface Area (in Acres)
 1573
 "Surface Area" is automatically carried over from the "Seepage Loss Sheet"

 Average Pond Depth (in feet)
 "Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the field examiner's handbook sugges multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that

(in acre feet) 9999	you know the capacity, divide the capacity by surface area and enter the average pond depth in the 9.9999: space above.
	The "Volume Needed Above Initial FIII" is the acre-feet of water required to meet afrom storage
和近期交通的	component if the from storage component exceeds a one time fill. This section should not include
	the amount of water needed to fill the pond initially or the amount of water needed to maintain
Volume Needed	the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet
Above Initial Fill to	and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10.
Fulfill From Storage	acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location
Needs- "Multiple	(10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed).
Fills"	DI FACE NOTE: You must have a "Fram Stampe" company dia she initial fill as the

(in acre feet)	0	PLEASE NOTE: You must have a <u>"From Storage"</u> component exceeding the initial fill on the permit to include a volume in this space.				
Estimated Seepage Loss (in acre feet)	0.0	The "Estimated Seepage Loss" Is automatically carried over from the Seepage Loss Sheet				
Estimated Evaporation Loss (in acre feet)	1352.9	The "Estimated Evaporation Loss" is automatically carried over from the Evaporation Loss Sheet				
Total Volume Required (in acre feet)	101352;9	"The Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.				

Flow Rate Into Pond						
(in cfs) Highest Daily Evaporation Rate From Evaporation Tab. (in mm/day)	10000.00	The "Flow Rate" Into the Pond depicts the actual flow either measured or estimated into the pond This number is automatically selected by picking the highest recorded number in the "Precipitation Deficit Table".				
Maximum Required Daily Maintenance Volume (In acre feet per day)	9.19	"Maximum Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year, and is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.				
Minimum Maintenance Flow (in cfs)	4.63	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determine by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.				
Days Required to Fill the Pond	5	The Days Required to Fill the Pond is calculated by dividing the Pond Capacity by the Frow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. This number should be between 1 and 365 days for a project to be successful.				
Days Required to Fill the Pond at 13,000 gallons per day		The "Days Required to Fill the Pond at 13,000 gallons per day" is calculated converting the "Pond Capacity" and the "Maximum Daily Maintenance Volume" to gallons. The "Pond Capacity is then divided by 13,000 gallons minus the "Maximum Daily Maintenance Volume" in gallons to determine the number of days to fill pond. This number should be between 1 and 365 if this pond is to described as a domestic use.				



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No. W 125202		Due no later than May 31, 2017		2. Registered Agent and Address (NO PO BOX)				
Return to: SECRETARY OF STATE 700 WEST JEFFERSON PO BOX 83720 BOISE, ID 83720-0080 NO FILING FEE IF	1. Mailing Ad CAT CREEK ENE JOHN L FAULK 1989 S 1875 E	Annual Report Form 1. Mailing Address: Correct in this box if needed. CAT CREEK ENERGY, LLC JOHN L FAULKNER 1989 S 1875 E GOODING ID 83330			JOHN FAULKNER 1989 S 1875 E GOODING ID 83330 3. <u>New</u> Registered Agent Signature:*			
Office Held Name	s: Enter Names and a	Addresses of at least one Member or M Street or PO Address 1851 US HWY 26	City	PT.	State ID	Country USA	Postal Code 83330	
5. Organized Under the Law ID W 125202	Signature: J	6. Annual Report must be signed.* Signature: JOHN L. FAULKNER Name (type or print): JOHN L. FAULKNER			Date: 03/23/2017 Title: MANAGER			
Processed 03/23/2017	* Electronically	provided signatures are accepted as or	iginal	signatur	es.			

66-34403



Generation Trybrid 750 MW Nameplate Capacity 600 MW Pump Storage Hydro 110 MW Wind Power 40 MW PV Solar **Ultimate Battery** 54,400 MWhrs of Energy Storage **Grid Support** 370 MW of Ancillary Services capability Interconnection 230 kV Idaho Power grid 500 kV PacifiCorp grid **Beneficial Water Storage** 100,000 acre-ft Reservoir Land Ownership Fee Simple Private Scheduled COD Calendar Year 2020 Cat Creek Energy, LLC

398 S. 9th Street Suite 240 Boise, Idaho 83702

Phone: 208.336.1370 Fax: 208.954.5099 E-mail: info@ccewsrps.net

Cat Creek Energy: Evolution or Revolution

Cat Creek Energy & Water Storage Renewable Power Station

The Cat Creek Energy & Water Storage Renewable Power Station represents the next revolution in transforming America's electrical energy resource base. High on the bluff 840 feet above the Anderson Ranch Reservoir in southern Idaho, the CCE facility integrates renewable energy components to create a more efficient, dependable, and robust form of firm, baseload electricity all the while providing the full range of the ancillary services to support increasingly arduous security and reliability transmission grid regulations. Moreover, the Cat Creek facility provides crucial water storage capacity for the Boise River Basin, whose current storage capacity for agricultural, municipal, environmental, and recreational demands is already stressed.

Cat Creek disrupts all the entrenched beliefs about renewables and hydro in the energy sphere. No longer are intermittent resources undependable. No longer do intermittent renewable resources need load following by fossil fuel generators. No longer does hydro rely on cycling water only once through its turbines. No longer does new hydropower conjure up the notion of an environmental calamity.

Cat Creek takes 38 balancing authorities in the West and synthesizes their operations through regulation and energy time shift management into one seamless grid operation.

Its as simple as flipping a switch.



Location of Upper Reservoir