

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-13188
Exam Date: 10/12/2016

1. Current Owner:
RANCHO MC CREA WATER & SEWER INC PO BOX 328 ISLAND PARK ID 83429 (208)526-0842
2. Accompanied by: Nyle Greenwall
Phone No: 431 5235
Relationship to Permit Holder: Rancho McCrea Water and Sewer President

3. SOURCE:
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 21-7314
2. Other water rights with the same point-of-diversion: 21-7314

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

GROUND WATER L6 (SE¼NW¼) Sec. 17, Twp 13N, Rge 43E, B.M. FREMONT County
GROUND WATER L6 (SE¼NW¼) Sec. 17, Twp 13N, Rge 43E, B.M. FREMONT County
GROUND WATER L11 (NW¼SW¼) Sec. 17, Twp 13N, Rge 43E, B.M. FREMONT County

Method of Determination: GPS and ArcMap. The ArcMap PLSS data in this far corner of the state is poorly rectified. Based on USGS topographic maps, the PLSS Section and QQ lines displayed on ArcMap are roughly 60 feet south and 20 feet east of their actual locations.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13N	43E	17								X L 6	X L 11	X L 11							

Method of Determination: Aerial photography and ArcMap.

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.

 X Aerial Photo Attached (required for irrigation of 10+ acres).

 X Photo of Diversion and System Attached

4. This system is comprised of three wells that are interconnected to serve the 155 lots located in the Rancho McCrea subdivision. The east well has a 5 hp pump, and the north well and the south well each have a 7.5 hp pump.

D. FLOW MEASUREMENTS

The maximum instantaneous total flow that the system can produce is 1.07 cfs.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

No direct discharge measurements could be taken at the wells. Therefore, rates in this exam are theoretical, based on each pump's horse power, a psi of 40, zero friction, and a pump efficiency of 70%. Because the rates are to be the maximum instantaneous rates, the static water level from the well driller's reports were used.

F. VOLUME CALCULATIONS

45 homes * (0.6 AF/Annually of in-home use + 0.6 AF/Annually for domestic irrigation) = 54 acre feet.

G. NARRATIVE/REMARKS/COMMENTS

The system consists of three interconnected wells serving a total of 155 hookups. 110 of the hookups are covered under water right 21-7314. The eastern well delivers into five pressure tanks of 250 gallons each. The north and south wells each deliver into four 500 gallon pressure tanks.

Have conditions of permit approval been met? Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.53 CFS	54.0 AF
	<u>Totals:</u>	0.530 CFS	54.00 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Cooper Fritz Date 11/30/2016

Reviewer Date

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 21-13188
 Examiner: Cooper
 Date of Field Exam: 10/12/2016

	East Well	North Well	South Well	
P/D No.:				
PUMP HORSEPOWER	5	7.5	7.5	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	9	27	28	
DISCHARGE PRESSURE	40	40	40	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.30	0.39	0.38	System Total
(gpm)	136.3	173.7	172.2	1.07

The above calculates the formula = $Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$

Assumptions: %70 efficiency.

Examiners Notes:

Lift was taken from well log. Hp was found during site visit. A standard psi for domestic use of 40 to 60 psi was used to estimate the pressure against the pump.

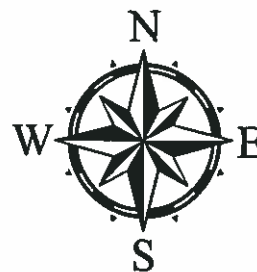
21-13188 Place of Use and Points of Diversion at Licensing



2015 Imagery

Legend

- Water Right POD
- Water Right POU
- Township/Range
- Sections
- QQ



0 0.075 0.15 0.3 Miles



"South well"



"East well"



"North Well"

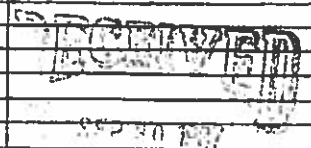
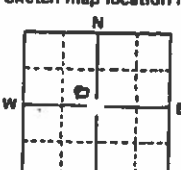
USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

North
Well

1. WELL OWNER Name <u>Mc Cree Water & Sewer Inc.</u> Address <u>Island Park, Idaho</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>27</u> feet below land surface Flowing? ☐ Yes ☒ No G.P.M. flow _____ Temperature _____ ° F. Quality _____ Artesian closed-in pressure _____ p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																											
2. NATURE OF WORK ☐ New well ☒ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Other Discharge G.P.M. <u>Approx 35</u> Draw Down <u>none</u> Hours Pumped <u>20</u>																											
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____ ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection	9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Hole Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th rowspan="2">Water Yes; No</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td></td><td>1</td><td>40</td><td>open 8 in well</td><td></td></tr><tr><td></td><td>40</td><td>78</td><td>open hole caved in</td><td>X</td></tr><tr><td></td><td>78</td><td>120</td><td>soft shale & sand</td><td>X</td></tr><tr><td></td><td>120</td><td>126</td><td>grey rock</td><td>X</td></tr></tbody></table>	Hole Diam.	Depth		Material	Water Yes; No	From	To		1	40	open 8 in well			40	78	open hole caved in	X		78	120	soft shale & sand	X		120	126	grey rock	X
Hole Diam.	Depth		Material	Water Yes; No																								
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	40	78	open hole caved in	X																								
	78	120	soft shale & sand	X																								
	120	126	grey rock	X																								
4. METHOD DRILLED ☒ Cable ☐ Rotary ☐ Dug ☐ Other																												
5. WELL CONSTRUCTION Diameter of hole <u>6</u> inches Total depth <u>126</u> feet Casing schedule: ☒ Steel ☐ Concrete Thickness <u>.250</u> inches Diameter <u>6</u> inches From <u>6</u> feet To <u>120</u> feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet _____ inches _____ inches _____ feet _____ feet Was casing drive shoe used? ☒ Yes ☐ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation _____ inches by _____ inches Number _____ From _____ To _____ _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet _____ perforations _____ feet _____ feet Well screen installed? ☐ Yes ☒ No Manufacturer's name _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth _____ Material used in seal ☐ Cement grout ☐ Pudding clay ☒ Well cuttings Sealing procedure used ☐ Sherry pit ☐ Temporary surface casing ☐ Overbars to seal depth	 Department of Water Resources SEP 21 1966																											
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Fremont</u> <u>SE 1/4 NW 1/4 Sec. 17, T. 13 N 1/2 R. 42 E 1/4</u>	10. Work started <u>6/5/83</u> finished <u>6/9/83</u> 11. DRILLERS CERTIFICATION Firm Name <u>A.C. Morris & Sons</u> Firm No. <u>20</u> Address <u>Rigby, Idaho</u> Date <u>6/13/83</u> Signed by (Firm Official) <u>Dwain Morris</u> and (Operator) _____																											

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

Form 226-7
3/79
ANDREW

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

South Well

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat. : : Long. : :

1. DRILLING PERMIT NO. 21-96-E-0075-200

Other IDWR No. 21-07314

2. OWNER:

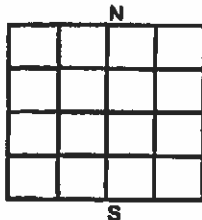
Name Rancho McCrea Subdivision

Address P.O. Box 328

City Island Park State ID Zip 83429

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 13 North ☒ or South ☐

Rge. 43 East ☒ or West ☐

Sec. 17 1/4, NE 1/4, NW 1/4

Gov't Lot _____ 10 Acres 40 Acres 160 Acres
County Fremont

Lat. : : Long. : :

Address of Well Site _____

City Island Park

(Give at least name of Road+ Distance to Road or Landmark)

Lot No. 6 Block No. 6 Subd. Name Rancho McCrea Subd

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement ect.)

☐ New Well ☐ Modify ☐ Abandonment ☒ Other Replacement

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT	
Material	From	To	Sacks or Pounds	Method
Bentonite	0		700#	Overbore
Cement		155	2256#	

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Dia	From	To	Gauge	Material	Casing	Linear	Welded	Threaded
8"	1.75	135	.250	Steel	☒	☐	☒	☐

Length of Headpipe: _____ Length of Tailpipe: _____

9. PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

28 ft below ground Artesian pressure _____ lb

Depth flow encountered _____ ft Describe access port or control devices: Well Seal

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
700gpm		180ft	1 hr

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered: 25ft

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	7	Sand & Gravel		X
	7	22	Broken Gray Rhyolite		X
	22	31	Fractured Brown Rhyolite	X	
	31	39	Black Basalt		X
	39	61	Fractured Black Basalt w/sand	X	
	61	94	Hard Black Basalt		X
	94	96	Red Cinders & Clay	X	
	96	114	Fractured Black Basalt	X	
	114	116	Clay		X
	116	123	Cinders	X	
	123	135	Fractured Basalt	X	
	135	141	Black Basalt		X
	141	148	Cinders & Clay	X	
	148	153	Fractured Basalt	X	
	153	155	Black Basalt		X
8	155	157	Black Basalt		X
	157	185	Fractured Gray Basalt	X	

RECEIVED MICROFILMED RECEIVED
OCT 07 1996 DEC 05 1996 OCT 07 1996

Department of Water Resources Eastern Region

Completed Depth 185ft (Measureable)

Date: Started: 9/13/96 Completed: 9/17/96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm: Andrew Well Drilling Services, Inc. Firm # 5

Firm Official: _____ Date: 9/26/96

and

Supervisor/Operator: Mark Dillert Date: 9/26/96

Sign once if Firm Official & Operator

RECEIVED

DEC 2 1968

REPORT OF WELL DRILLER
State of Idaho

Department of Reclamation

East
Well

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER:
Name McLean Ranch
Address Albion Park, Idaho

Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: house
METHOD OF CONSTRUCTION: Rotary ☐ Cable ☐
Dug ☐ Other ☐ (explain) _____

CASING SCHEDULE: Threaded _____ Welded ☒
6" Diam. from 0 ft. to 22 1/4 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: 280 well Material:
Steel ☒ concrete ☐ wood ☐ other ☐

(explain) _____
PERFORATED? Yes ☐ No ☐ Type of perforator used: _____

Size of perforations: " by "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☐

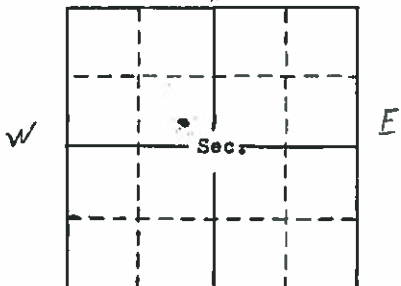
Manufacturer's name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☐ size of gravel _____ Gravel placed from _____ ft. to _____ ft. Surface seal provided? Yes ☐ No ☐ To what depth? _____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing strata off: _____

Surface casing used? Yes ☐ No ☐
Cemented in place? Yes ☐ No ☐

Locate well in section



LOCATION OF WELL: County FLAMANT
NW NW Sec. 17 T. 43 N. R. 43 E. 4

SE #

Use other side for additional remarks

Size of drilled hole: 6" Total depth of well: 15' Standing water level below ground: 9' Temp. _____ Fahr. _____ Test delivery: _____ gpm or _____ cfs Pump? ☐ Bail ☐
Size of pump and motor used to make test: _____

Length of time of test: _____ Hrs. _____ Min.
Drawdown: _____ ft. Artesian pressure: _____ ft. above land surface Give flow _____ cfs or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing? Yes ☐ No ☐ 44438

DEPTH	FROM	TO	MATERIAL	WATER
FEET	FEET	FEET		YES OR NO
0	4'	15'	Clay & gravel	no
4'	15'	25'	gray sandstone	no
15'	25'	35'	Red shale	yes
25'	35'	40'	hard shale Red & gray	yes
35'	40'	48'	sandstone & clay	yes
40'	48'	53'	gray sandstone	no
43'	53'	60'	hard shale	no
53'	60'	65'	soft shale	yes
60'	65'	12'	Red clay	yes
12'	65'		gravel	yes

Work started: July 15, 1968
Work finished: July 16, 1968
Well Driller's Statement: This well was drilled under my supervision and this report is true to the best of my knowledge.
Name: Charles E. Sanderson
Address: Ranch 16, Box 142 Blackfoot, Idaho
Signed by: Charles E. Sanderson
License No. 106 Date: July 16, 1968

3901

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