

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 85-7632

Exam Date: June 15, 2012

1. Current Owner: COUGAR RIDGE WATER & SEWER DIST (PWS 2350036)
6577 Wapiti Dr
Lewiston ID 83501
2. Accompanied by: Brennan and Connie Duclos
Phone No: 790-4077
Address: brennan@summituc.com or connieduclos@cableone.net
Relationship to Permit Holder: Water Operators

3. SOURCE

GROUND WATER

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:**GROUND WATER L1 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 3, Twp 35N, Rge 05W, B.M. NEZ PERCE CountyGROUND WATER L1 NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 3, Twp 35N, Rge 05W, B.M. NEZ PERCE County

Method of Determination: GPS

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35N	05W	2					x	x	x	x	x								NA
35N	05W	3	x			x	L 3	L 4											NA
			L 1																

Total Acres: NA

Method of Determination: Verified with Cougar W&S District

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
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E0006921 (North Well) the pumps are submersed and this information is not known

E0006922 (South Well)

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
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Polysonic	Tyme-Flyte			150232		03-2012
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2. Measurements:

North Well measured at 212 gpm or 0.47 cfs. The in-line DLJ meter registered a diversion rate of 210 gpm per Connie.

*South Well measured at 234 gpm or 0.52 cfs. The in-line DLJ meter registered a diversion rate of 205 gpm per Connie.

Total capacity between both wells = 446 gpm or 0.99 cfs

The diversion rate to be licensed under this right will be limited to the permitted rate of 0.80 cfs

E. FLOW CALCULATIONS

___x___Additional Computation Sheets Attached

Measured Method:

*I took a measurement at each well using the polysonic. The measurement on the south well was not taken in the ideal conditions. I set up the equipment using a thickness of 0.118", ran the diagnostics and got 96.23%. I re-measured the pipe thickness of 0.120", re-set the equipment, and ran the diagnostics. I still got a low reading of 96.24% (at least 98% is required) but I proceeded to acquire a measurement. I found out that the pipe is not lined so I wasn't sure where the problem was coming from.

Once I got a measurement on the south well I proceeded to obtain a measurement on the north well. Even though the pipe is the exact same at both well locations, the thickness gauge was now giving me a reading of 0.226". Instead of re-measuring the south well I assume that both wells together exceed the permitted rate of 0.80 cfs and the small error of margin should not be a factor.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: I have calculated the irrigated area of each lot. Each lot that has a home contains a total of 16 acres. 68 lots have a metered connection and a home. On average each lot with a home irrigated 0.25 acre per lot. There is no need to give a higher volume for the irrigated portion of this municipal right. The volume will be 0.6 af per lot for the irrigation component.

2. Volume Calculations for Other Uses: Municipal

1.2 af x 74 lots = 88.8 af (0.6 af for indoor use and 0.6 af for irrigation use per lot)

G. NARRATIVE/REMARKS/COMMENTS

According to Brennan and Connie 68 lots are occupied and 6 lots are stubbed-in to the system. They plan to develop more lots in the future so I advised them that a new application for permit would be required.

I asked Connie if there are any by-laws or CC&Rs that limit the irrigation per lot and she said there was not that she knew of.

I am recommending that this right be licensed as municipal instead of domestic and irrigation for a couple of reasons.

The lots within the subdivision don't appear to have clear taxlot designations (lot/block) so trying to add a condition to the license calling out the lots would not be clear. Secondly, the irrigation under the permit allowed for 0.5 acre/lot.

After my review of the irrigated area, most lots are irrigating less than 0.5 acre; under municipal use I wouldn't have to outline a specific irrigation shape and all the lots would be allowed to irrigate up to 0.5 acre with 0.6 af/year. Additionally, in general it would be far easier to regulate as a municipal right and it would give the right holders some flexibility just in case some of the lot holders choose to opt out of their water services.

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>
Municipal	1/1 to 12/31	0.800 CFS	88.8 AF
<u>Totals:</u>		0.800 CFS	88.8 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 (change use to municipal)

I. AUTHENTICATION

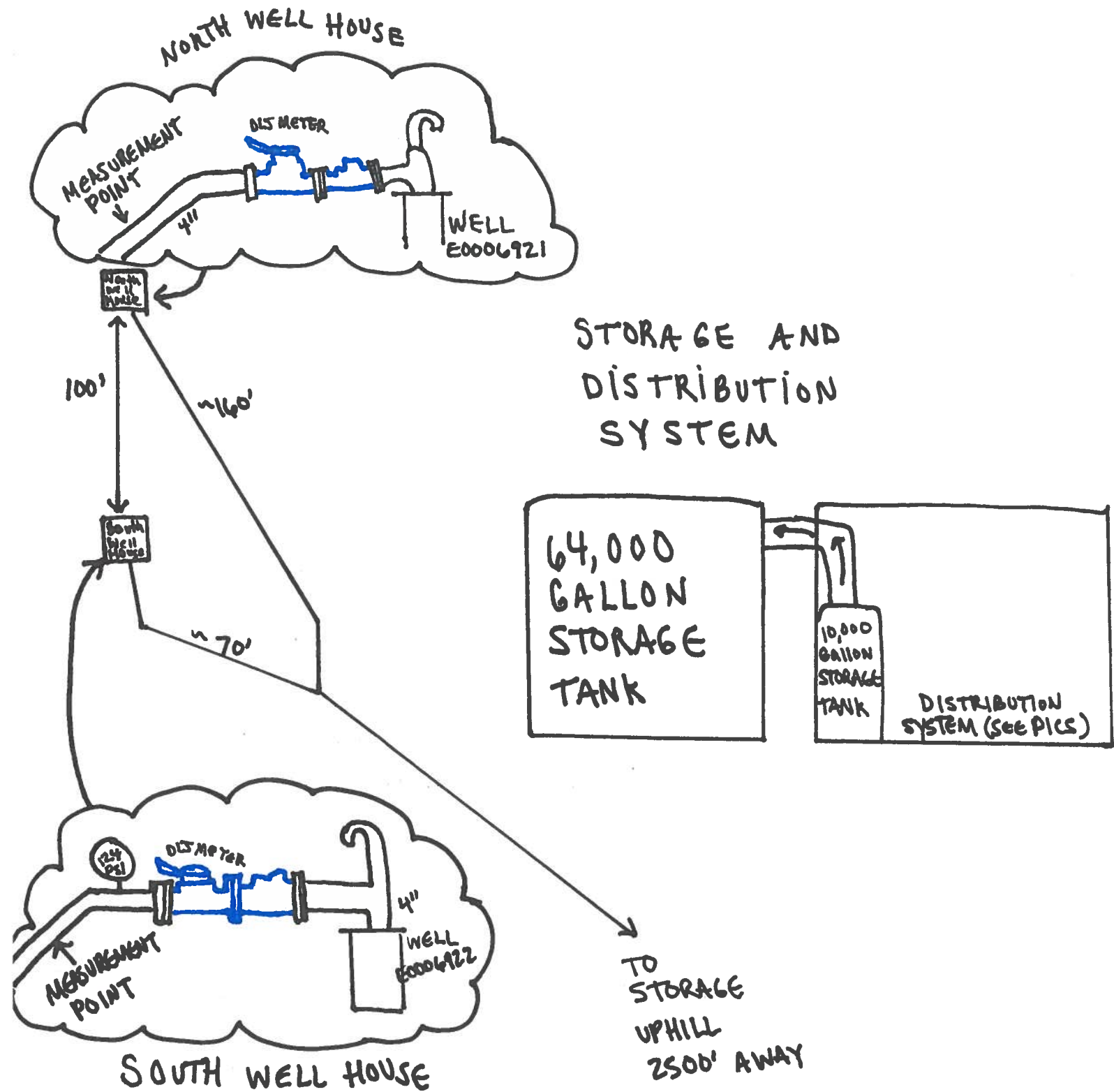
Field Examiner's Name Cherie Palmer Date 6/28/2012

Reviewer _____ Date _____

4 attachments

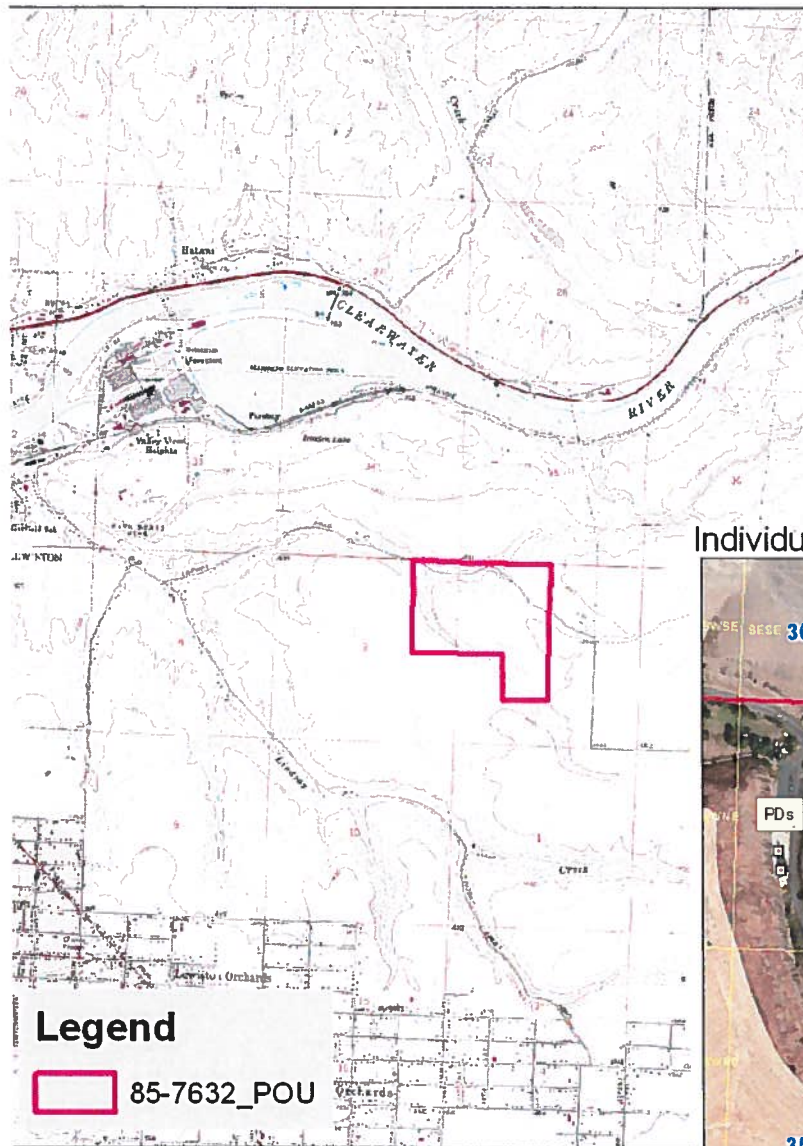
- *1 - Polysonic tape
- *2 - Cougar Ridges stubbed-in lots
- *3 - Overlay analysis
- *4 - Lot details (address, owner, etc.)

Delivery System



Map/Aerial Imagery

Large POU for 85-7632



Individual Taxlots Covered by 85-7632 at Time of FE



Photos

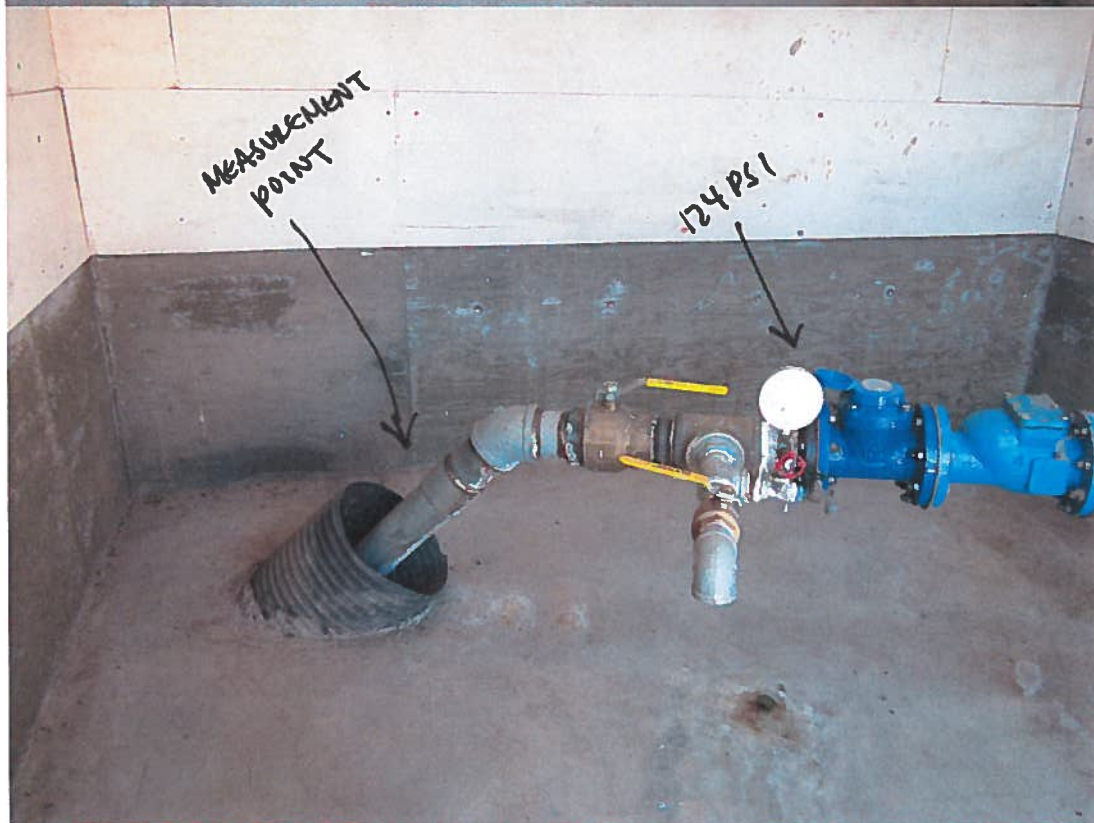


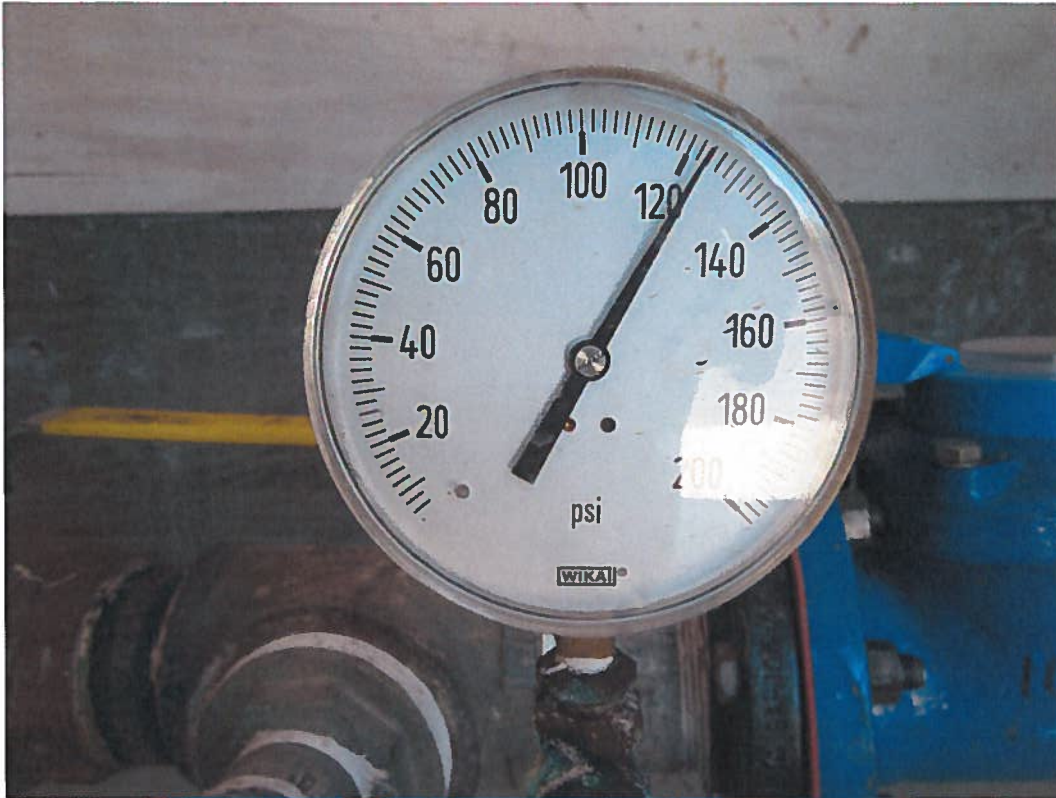
SOUTH
WELL
HOUSE



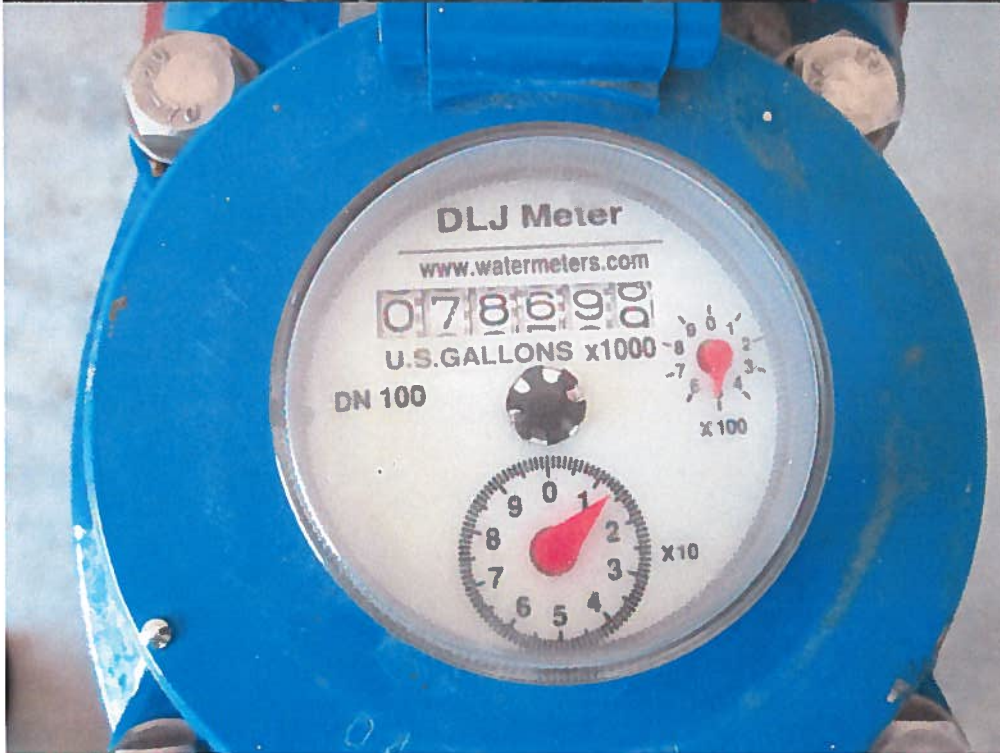
NORTH
WELL
HOUSE

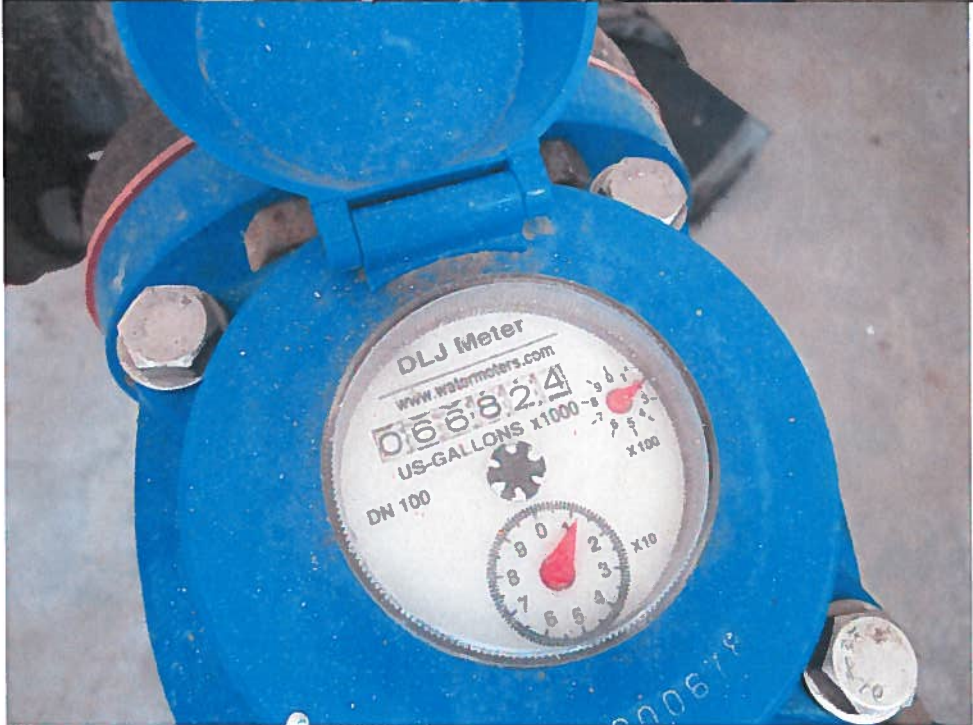
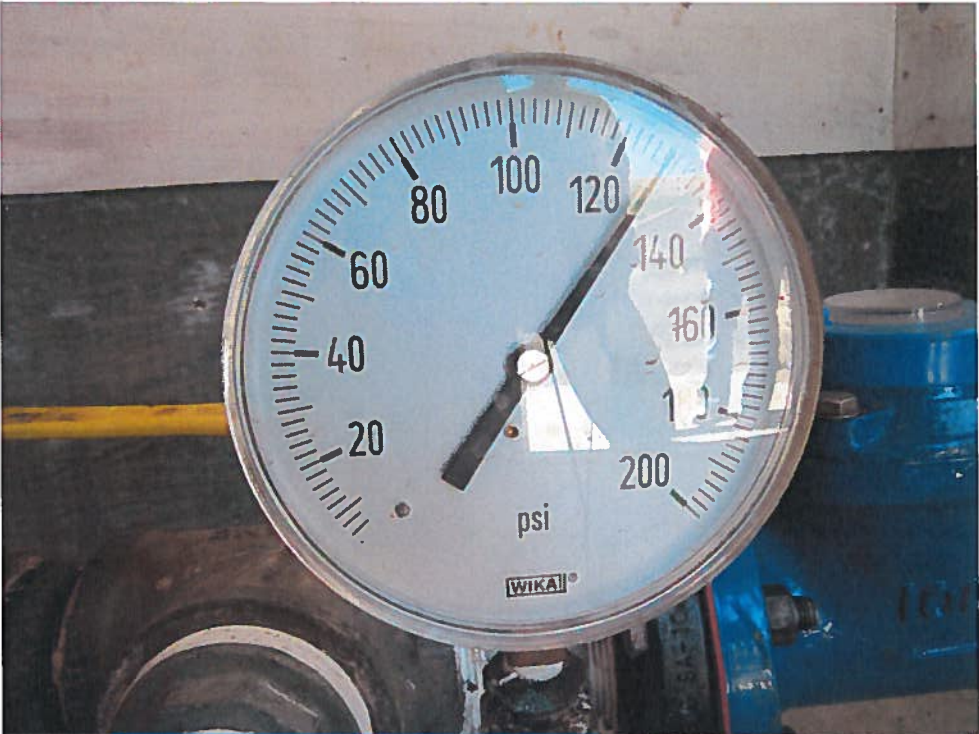
20086922





SOUTH
WELL





NORTH
WELL



North
Well
Σ0006921

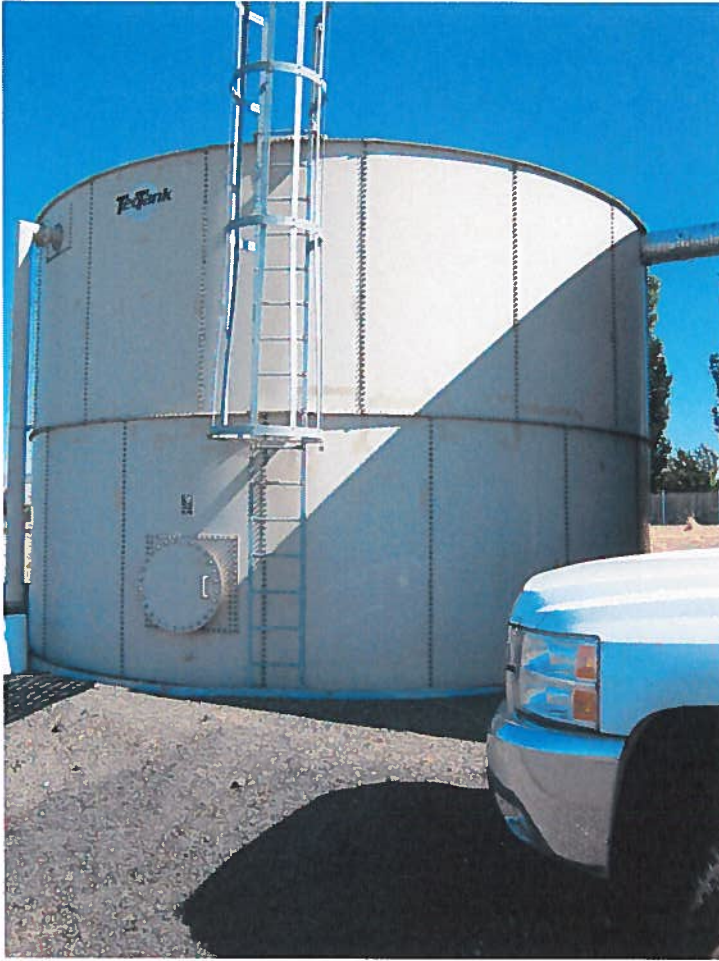




Distribution system
to subdivision



10,000 gallon
Storage tank
behind the wall



64,000 gallon
storage tank

Cougar - South well
R. 1st 20006922

06-15 09:2600 *H
+002.60 % AI2

0155.1 MMSEC
096.23 % T0

09:30+ 2.272E 2GPM 00R

+ 4.990E 0FPS 00R
+00000 *10 G 00R
-00000 *10 G 00R

09:32+ 2.269E 2GPM 00R
+ 4.993E 0FPS 00R
+00045 *10 G 00R
-00000 *10 G 00R

09:33+ 2.263E 2GPM 00R
+ 4.970E 0FPS 00R
+00068 *10 G 00R
-00000 *10 G 00R

0155.1 MMSEC
096.24 % T0

09:40+ 2.359E 2GPM 00R
+ 5.180E 0FPS 00R
+00000 *10 G 00R
-00000 *10 G 00R

09:41+ 2.326E 2GPM 00R
+ 5.188E 0FPS 00R
+00023 *10 G 00R
-00000 *10 G 00R

09:42+ 2.359E 2GPM 00R
+ 5.180E 0FPS 00R
+00046 *10 G 00R
-00000 *10 G 00R

+ 5.173E 0FPS 00R
+00191 *10 G 00R
-00000 *10 G 00R

10:17+ 2.052E 2GPM 00R
+ 4.997E 0FPS 00R
+00212 *10 G 00R
-00000 *10 G 00R

212 or 0.17cfs

Cougar Kids North well
06-15 10:0200 *H
+002.50 % AI2

0153.2 MMSEC
100.06 % T0

10:07+ 2.173E 2GPM 00R
+ 5.288E 0FPS 00R
+00000 *10 G 00R
-00000 *10 G 00R

10:08+ 2.178E 2GPM 00R
+ 5.301E 0FPS 00R
+00021 *10 G 00R
-00000 *10 G 00R

10:09+ 2.104E 2GPM 00R
+ 5.121E 0FPS 00R
+00042 *10 G 00R
-00000 *10 G 00R

10:10+ 2.178E 2GPM 00R
+ 5.301E 0FPS 00R
+00063 *10 G 00R
-00000 *10 G 00R

10:11+ 2.092E 2GPM 00R
+ 5.091E 0FPS 00R
+00085 *10 G 00R
-00000 *10 G 00R

10:12+ 2.145E 2GPM 00R
+ 5.219E 0FPS 00R
+00106 *10 G 00R
-00000 *10 G 00R

10:13+ 2.095E 2GPM 00R
+ 5.048E 0FPS 00R
+00127 *10 G 00R
-00000 *10 G 00R

10:14+ 2.138E 2GPM 00R
+ 5.160E 0FPS 00R
+00148 *10 G 00R
-00000 *10 G 00R

10:15+ 2.115E 2GPM 00R
+ 5.147E 0FPS 00R
+00170 *10 G 00R
-00000 *10 G 00R

10:16+ 2.126E 2GPM 00R
+ 5.173E 0FPS 00R
+00191 *10 G 00R
-00000 *10 G 00R

10:17+ 2.052E 2GPM 00R
+ 4.997E 0FPS 00R
+00212 *10 G 00R
-00000 *10 G 00R

212 or 0.17cfs

+ 4.990E 0FPS 00R
+00000 *10 G 00R
-00000 *10 G 00R

09:32+ 2.269E 2GPM 00R
+ 4.983E 0FPS 00R
+00045 *10 G 00R
-00000 *10 G 00R

09:33+ 2.263E 2GPM 00R
+ 4.970E 0FPS 00R
+00068 *10 G 00R
-00000 *10 G 00R

0155.1 MMSEC
096.24 % T0

09:40+ 2.359E 2GPM 00R
+ 5.180E 0FPS 00R
+00000 *10 G 00R
-00000 *10 G 00R

09:41+ 2.326E 2GPM 00R
+ 5.188E 0FPS 00R
+00023 *10 G 00R
-00000 *10 G 00R

09:42+ 2.359E 2GPM 00R
+ 5.180E 0FPS 00R
+00046 *10 G 00R
-00000 *10 G 00R

09:43+ 2.311E 2GPM 00R
+ 5.075E 0FPS 00R
+00070 *10 G 00R
-00000 *10 G 00R

09:44+ 2.327E 2GPM 00R
+ 5.111E 0FPS 00R
+00093 *10 G 00R
-00000 *10 G 00R

09:45+ 2.375E 2GPM 00R
+ 5.216E 0FPS 00R
+00117 *10 G 00R
-00000 *10 G 00R

09:46+ 2.317E 2GPM 00R
+ 5.088E 0FPS 00R
+00140 *10 G 00R
-00000 *10 G 00R

09:47+ 2.314E 2GPM 00R
+ 5.082E 0FPS 00R
+00164 *10 G 00R
-00000 *10 G 00R

09:48+ 2.360E 2GPM 00R
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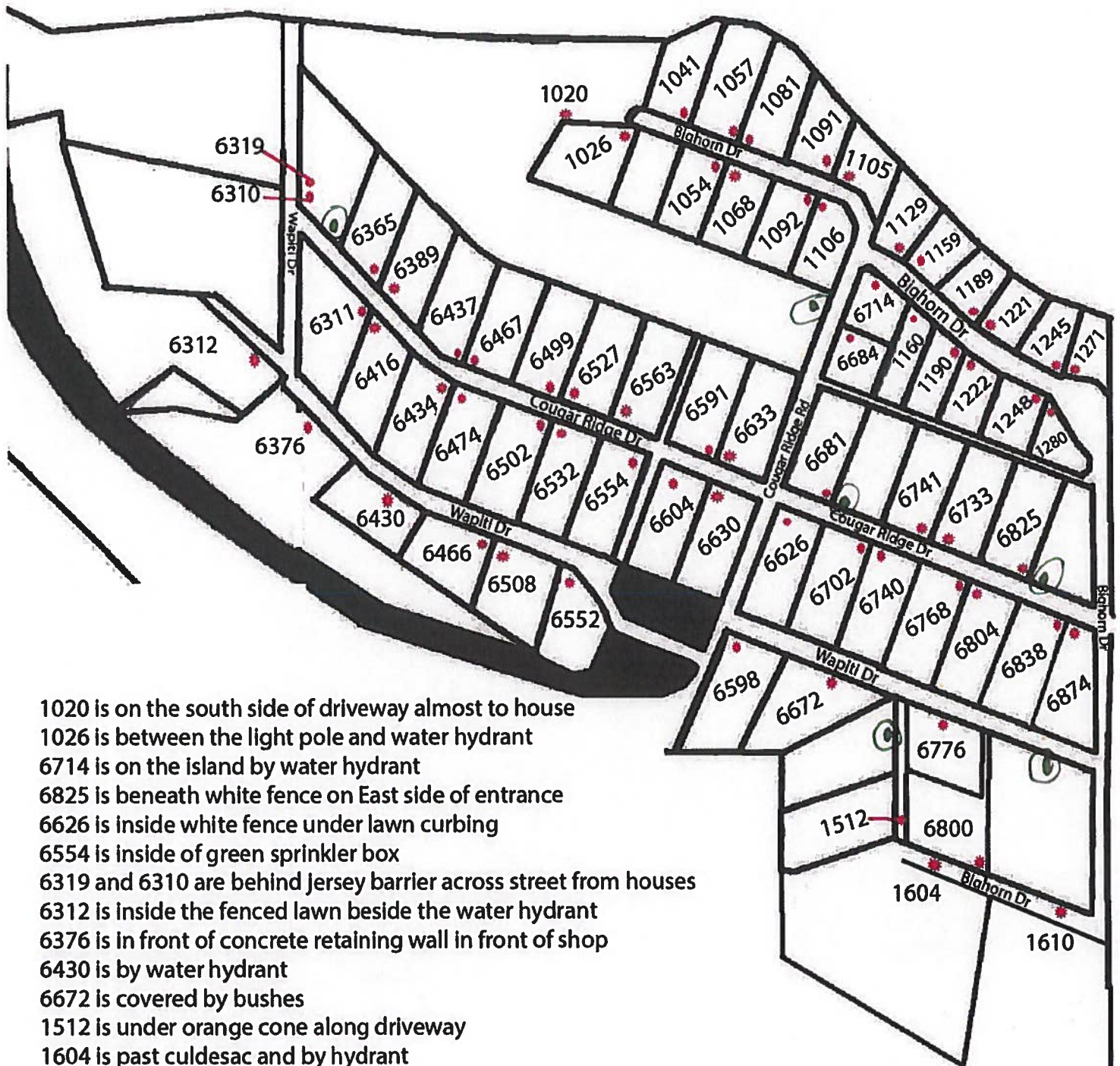
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+ 5.088E 0FPS 00R
+00210 *10 G 00R
-00000 *10 G 00R

09:50+ 2.333E 2GPM 00R
+ 5.104E 0FPS 00R
+00234 *10 G 00R
-00000 *10 G 00R

Attachment

#1

Cougar Ridge Water & Sewer District
Meter Map
Water Right 85-7632



68 metered

(6) stubbed

74

Attachment

#2

Overlap Analysis for 85-7632; Cougar Ridge Water & Sewer District

Type	WR #	Owner	Source	TRS	NENW	NWNW	SWNW	SENW	NESW	Significant Overlap Y/N?
Permit	85 15696	RICHARD WOODS JR, TINA D WOODS,	GROUND WATER	35N05W2				9.5		N
Right	85 7626B	HDI INC,	GROUND WATER	35N05W2				0.1		N
Right	85 7645	EAGLES POINTE DEVELOPMENT INC,	GROUND WATER	35N05W2	3					N
Right	85 7632	COUGAR RIDGE WATER & SEWER DIST,	GROUND WATER	35N05W2	3	12	12.5	13.5	7	

Type	WR #	Owner	Source	TRS	NENE	SENE	
Permit	85 7632	COUGAR RIDGE WATER & SEWER DIST,	GROUND WATER	35N05W3	1	0.5	
Right	85 7086	WILLIAM G HALL,	UNNAMED STREAM	35N05W3	3		N

Conclusion: There are no overlaps regarding the place of use or point of diversion.

Attachment

3

85-7632

FID	OWNER	P_ADDRESS	LEGAL2	LEGAL3
0	SCHULTZ BARRY SR	6319 COUGAR RDG DR	#8114 NE1/4 3 35 5W	
1	MUELLER DONNA L	1020 BIGHORN DR	#8819 OF NW1/4 2 35 5W	
2	WELCH NORMAN O	1041 BIGHORN DR	COUGAR RIDGE 5TH ADDN 5	
3	FREI BILL J	1057 BIGHORN DR	COUGAR RIDGE 5TH ADDN 4	
4	DUCLOS BRENNAN J	1081 BIGHORN DR	COUGAR RIDGE 5TH ADDN 3	
5	WELCH DAVID E		COUGAR RIDGE 2ND ADDN 15	
6	FORSMANN JAMES D	1091 BIGHORN DR	COUGAR RIDGE 5TH ADDN 2	
7	CURL STEVE J	6312 WAPITI DR	#7883 OF NE1/4 3 35 5W	
8	BARNES BRICE J	1026 BIGHORN DR	COUGAR RIDGE 5TH ADDN UNIT 2	LOT 1
9	RALSTON JUSTIN W	1105 BIGHORN DR	COUGAR RIDGE 5TH ADDN 1	(EXC #9021)
10	BENTZ DICK DARELL	6310 WAPITI DR	#8021 OF NE1/4 3 35 5W	
11	GRAHAM DOROTHY DEAN	6365 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 14	
12	SULLIVAN SHAWN D	1068 BIGHORN DR	COUGAR RIDGE 5TH ADDN 8	
13	WHITLOCK ROBERT M	1129 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	6
14	MUELLER DONNA L	6693 COUGAR RDG RD	#8820 OF NW1/4 2 35 5W	
15	HISSIM DAVID A	1092 BIGHORN DR	COUGAR RIDGE 5TH ADDN 9	
16	CARPENTER LANCE	6389 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 12	
17	TEICHMER PATRICK S	1106 BIGHORN DR	COUGAR RIDGE 5TH ADDN 10	
18	SNOW LEONARD E	1159 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	5
19	OLMSTEAD JERRY W	6311 WAPITI DR	COUGAR RIDGE 2ND ADDN 13	
20	MACKE JOSEPH P	6437 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 10	
21	GRABER DALE E	1189 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	4
22	WOOD WAYNE L	6467 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 8	
23	HOAGLIN DAVID P	6714 COUGAR RDG RD	COUGAR RIDGE 4TH ADDITION	7
24	WILSON WAYNE C	6499 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 6	
25	BALES DANIEL A	1221 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	3
26	JUDD JAMES L	6527 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 4	
27	NIEWENHOUS THOMAS H	6416 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 11	
28	DOMINY DANIEL E	1160 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	9
29	ANDERSEN GENE H	1245 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	2

Attachment #4

FID	OWNER	P_ADDRESS	LEGAL2	LEGAL3
30	KENNEDY JOHN LEE	6563 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 2	W1/2 OF VACATED ALLEY ABUTTING
31	MAHURIN GERALD K	1271 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	1
32	RIENER DALE	6684 COUGAR RDG RD	COUGAR RIDGE 4TH ADDITION	8
33	SCHMITZ DANA J	1190 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	10
34	TATSEY JOHN J	6591 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	16
35	TAFT STUART S	6434 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 9	
36	QUESENBERRY ROBERT ALAN	1222 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	11
37	MARVIN HOMER R	6633 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	14
38	TERRY MARK	6474 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 7	
39	WILKINS KELLY L	1248 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	12
40	THYKESON TODD J	6376 WAPITI DR	#7805 OF SENE 3 35 5W	
41	THYKESON TODD J		#7805 OF SWNW 2 35 5W	
42	SATHER GARY R	6681 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	12
43	ANDERSON WILLIAM L	6502 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 5	
44	LANNIGAN DARRELL CRAIG	1280 BIGHORN DR	COUGAR RIDGE 4TH ADDITION	13
45	DILLARD JOHN J		AMENDED COUGAR RIDGE ADDN	10
46	JENSON DENNIS L	6532 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 3	
47	DURHAM LANCE	6741 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	8
48	ELLIS DANNY J	6554 COUGAR RDG DR	COUGAR RIDGE 2ND ADDN 1	W1/2 OF VACATED ALLEY ABUTTING
49	LOHMAN GERALD L	6773 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	6
50	ORTON H DUANE	6430 WAPITI DR	COUGAR RIDGE 3RD ADDITION	4
51	BLY RUSSELL S	6604 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	17
52	ANDERSON LIVING TRUST	6825 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	4
53	IVINS MATT	6630 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	15
54	ANDERSON LIVING TRUST		AMENDED COUGAR RIDGE ADDN	2
55	SIMLER GARY L	6466 WAPITI DR	COUGAR RIDGE 3RD ADDITION	3
56	TREVEY FREDERICK L	6626 COUGAR RDG RD	AMENDED COUGAR RIDGE ADDN	13
57	NATIONAL RESIDENTIAL	6702 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	11
58	WILSON SHANNON S	6508 WAPITI DR	COUGAR RIDGE 3RD ADDITION	2
59	ROGERS ARLEN R	6740 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	9
60	NEWSOME JUSTIN	6552 WAPITI DR	COUGAR RIDGE 3RD ADDITION 1	

FID	OWNER	P_ADDRESS	LEGAL2	LEGAL3
61	ALLEN ROBERT H	6768 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	7
62	MEDLEY RICHARD D	6804 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	5
63	HOLZER RICHARD A JR	6838 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	3
64	GARDA THOMAS P	6874 COUGAR RDG DR	AMENDED COUGAR RIDGE ADDN	1
65	FITZ LEO E	6598 COUGAR RDG RD	BUTTREY ADDITION 4	
66	SMITH JEFFREY WAYNE	6672 WAPITI DR	BUTTREY ADDITION 3	
67	COOK DAVID C		COOK ACRES 4	
68	SCHIWECK PAUL A	6776 WAPITI DR	COOK ACRES 3	
69	THOMPSON RANDALL E	6800 WAPITI DR	COOK ACRES 2	
70	NEMETH RANDALL L		COOK ACRES 1	
71	COOK DAVID C	1512 TIMBERWOLF LN	BUTTREY ADDITION 1	
72	EWING RUSSELL A	1604 BIGHORN DR	#8810 2 35 5W	(EXC #8811)
73	NEMETH RANDALL L	1610 BIGHORN DR	#8811 2 35 5W	

- 741.05 total