

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-7100

Exam Date: 7/27/1987

1. Current Owner: PANORAMA HILLS WATER CO
BOX 252
IONA ID 83427

PANORAMA HILLS WATER CO
ATTN: BRADY BELLISTON
1009 WEST 500 SOUTH
WEST BOUNTIFUL UT 84087
(801) 243-6153

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

GROUND WATER

TRIBUTARY**RECEIVED****SEP 09 2005****Department of Water Resources****B. OVERLAP REVIEW**

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

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4SW1/4NW1/4 Sec. 32, Twp 03N, Rge 39E, B.M. BONNEVILLE County
GROUND WATER NW1/4SW1/4NE1/4 Sec. 31, Twp 03N, Rge 39E, B.M. BONNEVILLE County

— well #2
— well #1

Method of Determination:

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	
03N 39E 31			X	X													
03N 39E 32			X	X		X	X	X	X	X			X	X			

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N 39E 29									40.0	39.0							79.0
03N 39E 32					34.0	4.2											38.2

Total Acres: 117.2

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
	unknown	20			4.0 inch
	unknown	200			10.0 inch

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: (4) hand lines @ 142 gpm + (4) hand lines @ 150 gpm = 1168 gpm = 2.60 cfs
Irrigation limited to 0.02 cfs/ac = 2.34 cfs

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: Irrigation = 2.60 cfs (Theoretical flow = 2.30 cfs)

Total system diversion rate = 0.37 cfs + 2.60 cfs = 2.97 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (117.0)(4) = 468.0 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (2.34)(214)(1.9835) = 933.3 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 468.0 \text{ afa}$$

2. Volume Calculations for Other Uses:

$$\text{Volume Domestic} = (137)(1.2) = 164.4$$

G. NARRATIVE/REMARKS/COMMENTS

Two wells. Well #1 - 20 hp, Well #2 - 200 hp, mainline 100 hp booster to two storage tanks (12,000 gal & 100,000 gal) with distribution lines to 137 domestic lots located in Panorama Hills Alpha Area, Panorama Hills Beta Area, First Amended Panorama Hills Beta II Area, and Altura Verde subdivisions.

Subdivision Name: Panorama Hills Alpha Area

Block 1: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, & 16

Block 2: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, & 19

Block 3: Lots 1, 2, 3, 4, 5, 6, & 7

Block 4: Lots 15, 16, 17, 18, 19, & 20

Block 5: Lots 1, 2, 3, 4, 5, & 9

Block 6: Lots 1, 2, 3, 4, 11, & 12

Number of Lots = 59 lots

Subdivision Name: Panorama Hills Beta Area

Block 7: Lots 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, & 19

Block 8: Lots 1, 2, 3, 15, & 16

Block 9: Lot 1

Block 10: Lots 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, & 13

Block 11: Lots 1, 2, 3, 4, 5, 6, & 7

Block 12: Lots 5, 6, 7, 8, 12, & 13

Block 13: Lots 6, 7, 8, & 9

Number of Lots = 53 lots

Subdivision Name: First Amended Panorama Hills Beta II Area

Block 12: Lots 14 & 15

Block 13: Lot 13

Block 14: Lot 7

Number of Lots = 4 lots

Subdivision Name: Altura Verde

Block 1: Lots 1, 2, 3, 4, & 5

Block 2: Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, & 12

Block 3: Lots 2, 3, 6, & 7

Number of Lots = 21 lots

Total number of lots = 137

Domestic includes 1/2 acre of irrigation for each lot. Total acres under domestic = $137 \times 0.5 = 68.5$ acres. Add $(0.02 \text{ cfs/ac})(68.5 \text{ ac}) = 1.37 \text{ cfs}$ to be added to domestic.

From domestic chart in-house Domestic for 137 = 0.50 cfs.

Total Domestic Q = $0.50 \text{ cfs} + 1.37 \text{ cfs} = 1.87 \text{ cfs}$

Irrigation system consisted two wells, mainline to eight (8) 1/4 mile handlines. Four (4) had a flow rate of 142 gpm and four (4) had a flow rate of 150 gpm.

Total flow rate for irrigation Q = $(4)(142) + (4)(150) = 1168 \text{ gpm} = 2.60 \text{ cfs}$.

Irrigation limited to $0.02 \text{ cfs/acre} = (117 \text{ ac})(0.02) = 2.34 \text{ cfs}$

Total System Capacity for Domestic & Irrigation Q = $0.37 \text{ cfs} + 2.60 \text{ cfs} = 2.97 \text{ cfs}$.

Recommend flow:

Domestic Q = 1.87 cfs

Irrigation Q = 2.34 cfs (limited by 0.02 cfs/ac)

Conditions of the permit have been met.

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	1.870 CFS	
IRRIGATION	04/01 to 11/01	2.340 CFS	
	<u>Totals:</u>	2.970 CFS	632.40 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 Keith C. Wilson Date 9/6/2004

Reviewer _____ Date _____

THEORETICAL PUMP FLOW CALCULATIONS

Formula: $Q_{cfs} = [(Hp)(8.814)(Eff)] \div [Lift + (psi \times 2.308)]$

SYSTEM: Well #1 (20hp)

Hp = Horsepower = 20
Eff = Efficiency = 70 (Usually 70%)

Lift: (Static Level + Assumed Drawdown)

Well logs in area 150-180' — Static Water Level = 165 ft. Assumed
Assumed Drawdown = + 15 ft. Assumed
Lift = 180

OR

Measured Dynamic Water Level = _____ ft.

psi = Operating Pressure = 65 psi Assumed

$Q_{cfs} = [\frac{20}{Hp} \times 8.814 \times \frac{0.70}{Eff}] \div [\frac{180}{Lift} + (\frac{65}{psi} \times 2.308)$

$Q_{cfs} = [\underline{123.396}] \div [\underline{330.02}]$

$Q_{cfs} = \underline{0.376} \text{ cfs SYSTEM } \underline{\text{Well \#1}}$

SYSTEM: Well #2 (200hp)

Hp = Horsepower = 200
Eff = Efficiency = 70% (Usually 70%)

Lift: (Static Level + Assumed Drawdown)

Well log Static Water Level = 410 ft.
Assumed Drawdown = + 10 ft.
Lift = 420

OR

* Note System measured
① 1168 gpm = 2.60 cfs Measured Dynamic Water Level = _____ ft.

psi = Operating Pressure = 50 psi Assumed

$Q_{cfs} = [\frac{200}{Hp} \times 8.814 \times \frac{0.70}{Eff}] \div [\frac{420}{Lift} + (\frac{50}{psi} \times 2.308)$

$Q_{cfs} = [\underline{1233.96}] \div [\underline{535.4}]$

$Q_{cfs} = \underline{2.30}^* \text{ cfs SYSTEM } \underline{\text{System \#2}}$

PERMIT NO. 25-7100

PANORAMA HILLS WATER CO.

PO BOX 252
IONA, ID 83427

Type of Business: CORPORATION, WATER USERS ASSOCIATION
Status: GOODSTANDING, ANREPT SENT 01 Dec 2003
State of Origin: IDAHO
Date of Origination/Authorization: 05 Feb 1973
Current Registered Agent: KEN WRIGHTSON
6665 HILLSIRE DR
IDAHO FALLS, ID 83401
Organizational ID / Filing Number: C46848
Number of Authorized Stock Shares:
Date of Last Annual Report: 12 Feb 2004

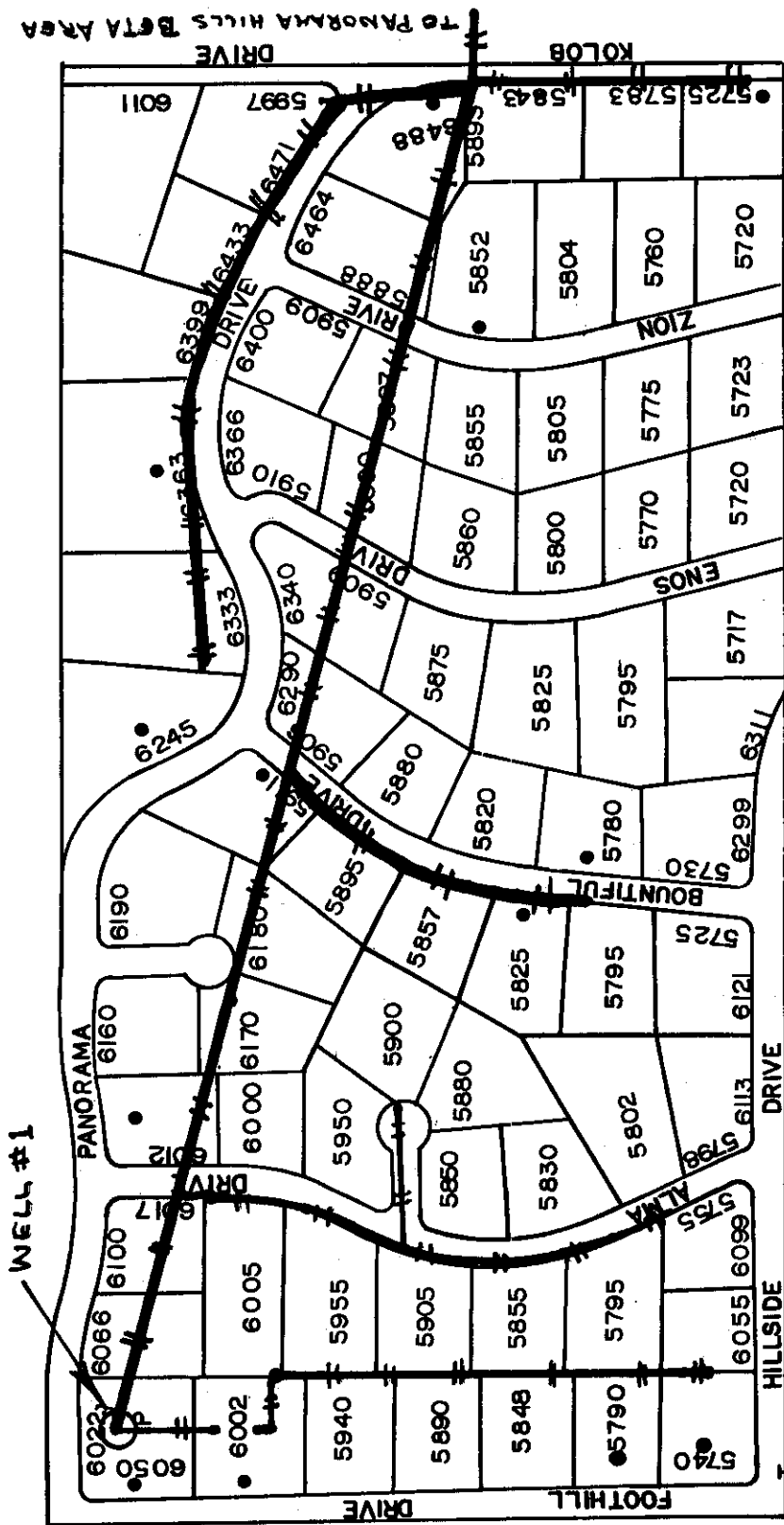
No. C 46848		Due no later than February 29, 2004		2. Registered Agent and Office NO PO BOX	
Return to:		1. Making Annual Report Corrected before next filing date		KEN WRIGHTSON	
SECRETARY OF STATE		PANORAMA HILLS WATER CO.		6665 HILLSIRE DR	
700 WEST JEFFERSON		KEN WRIGHTSON		IDAHO FALLS, ID 83401	
PO BOX 83720		~~P.O. BOX 252~~ <i>CORRECT</i>		3. New Registered Agent Signature	
BOISE, ID 83720-0080		PO Box 252			
NO FILING FEE IF		IONA, ID 83427			
RECEIVED BY DUE DATE					
4. Corporations: Enter Names and Business Addresses of President, Secretary and Directors.					
<u>Office held</u>	<u>Name</u>	<u>Street or P.O. Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>
Board Member	Steve Roods	6545 E. Panorama Dr.	Idaho Falls	ID	83401
Board Member	Bill Fairley	6050 N FOOTHILL	Idaho Falls	ID	83401
5. Organized Under the Laws of:					
IDAHO					
C 46848					
6. Signature		<i>Ken Wrightson</i>		Date	<i>2/4/04</i>
Name (Print or Type)		<i>Ken Wrightson</i>		Title	<i>President</i>

Issued 12/01/2003

Do Not Tape or Staple

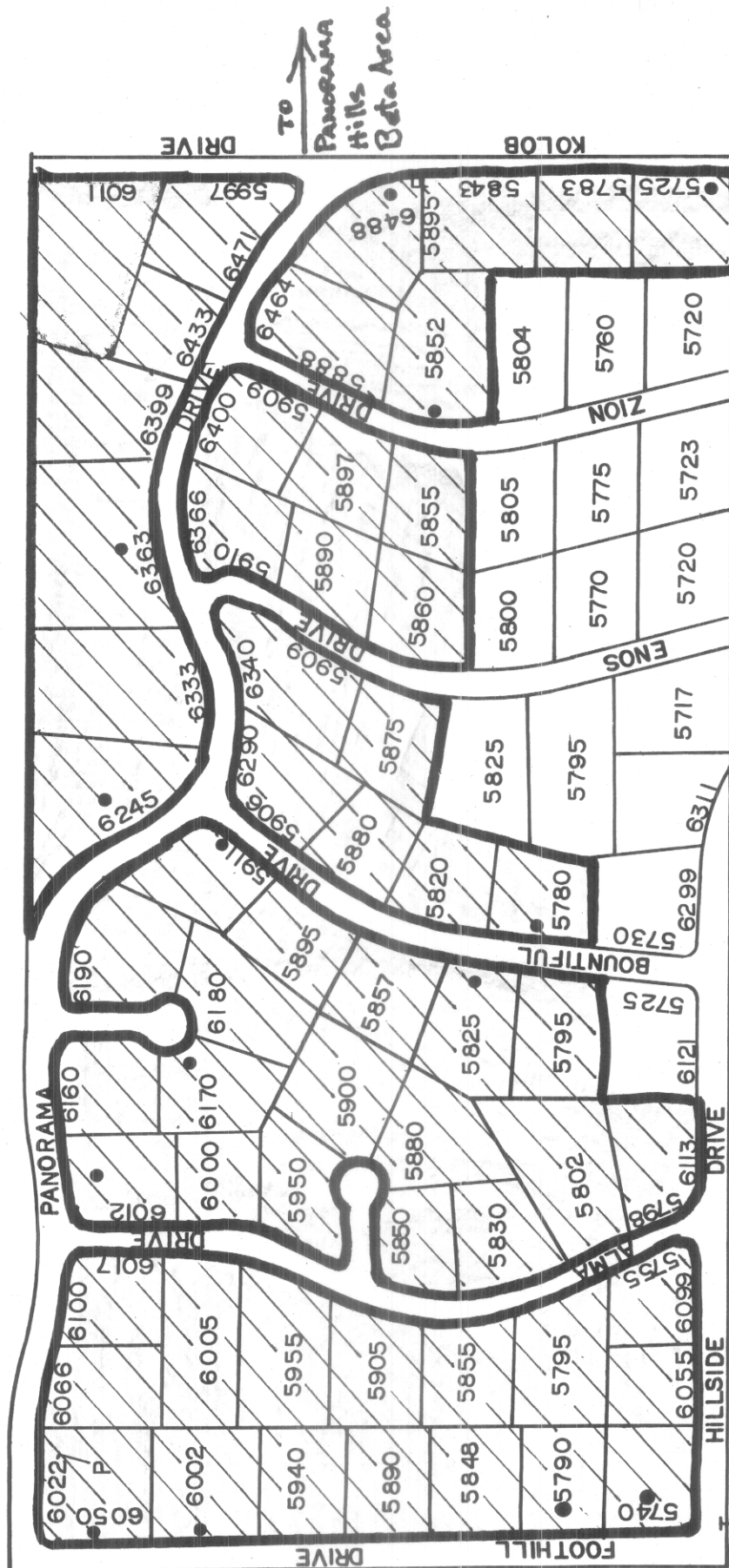
2884

25-7100




 MAINLINE
 PANORAMA HILLS-ALPHA AREA
 S 1/2 NE 1/4 Sec 31, T3N, R39E

25-7100



PLACE OF
USE

S $\frac{1}{2}$ NE $\frac{1}{4}$ Sec 31, T3N, R39E

PANORAMA HILLS-ALPHA AREA

25-7100

TO PANORAMA HILLS DRIVE

MULLEN DRIVE

THUNDER RIDGE POOL

12000 gal TANK

WELL #2

100,000 gal TANK

PHILIPPS DRIVE

KOLB DRIVE

MAINLINE

Sec 32, T3N, R39E

25-7100

ALTURA VERDE

*To
Panorama
Hills Alpha
Area*

*S 1/2 NE 1/4, NW 1/4, N 1/2 SW 1/4,
N 1/2 SE 1/4 Sec 32, T3N, R39E*

PLACE OF USE

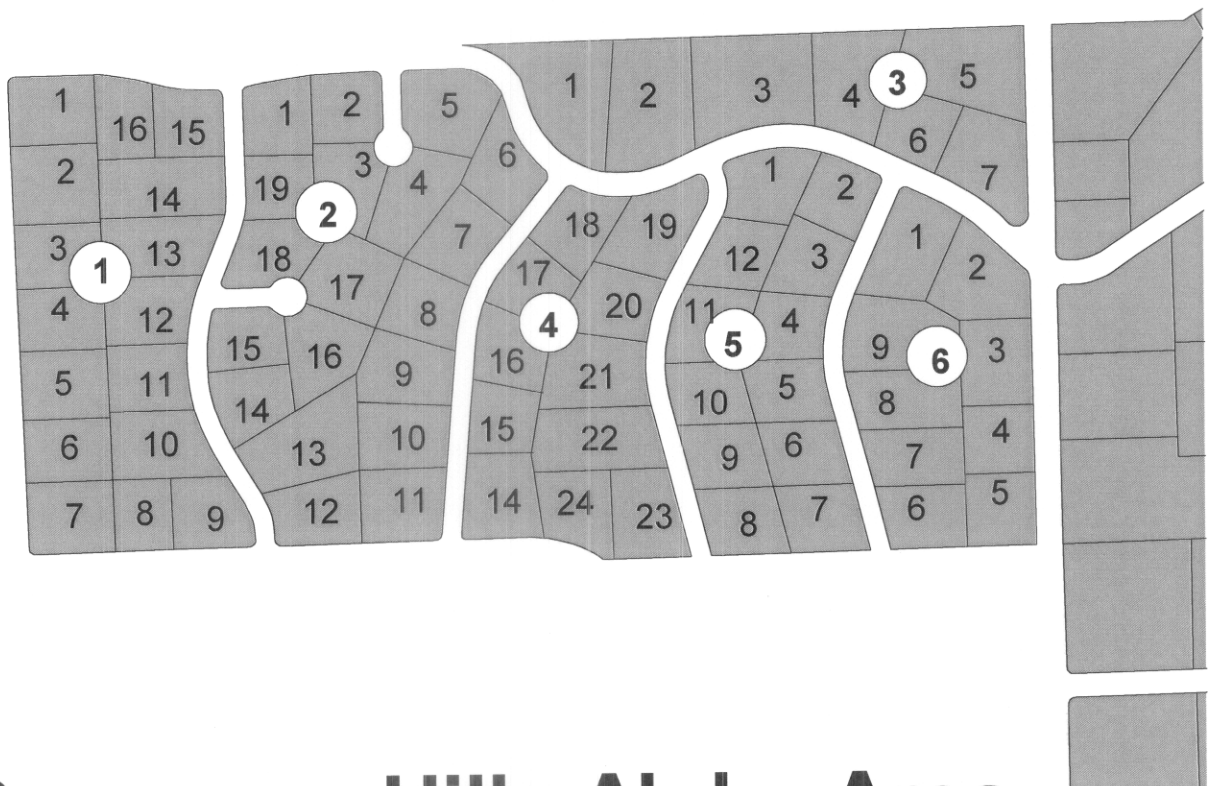
25-7100



Domestic Place of Use & Points of Diversion

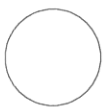
-  Sections
-  GCDB03N39E GCDB
-  Permit POD
-  Panorama_hills.shp





Panorama Hills Alpha Area

Lot Number



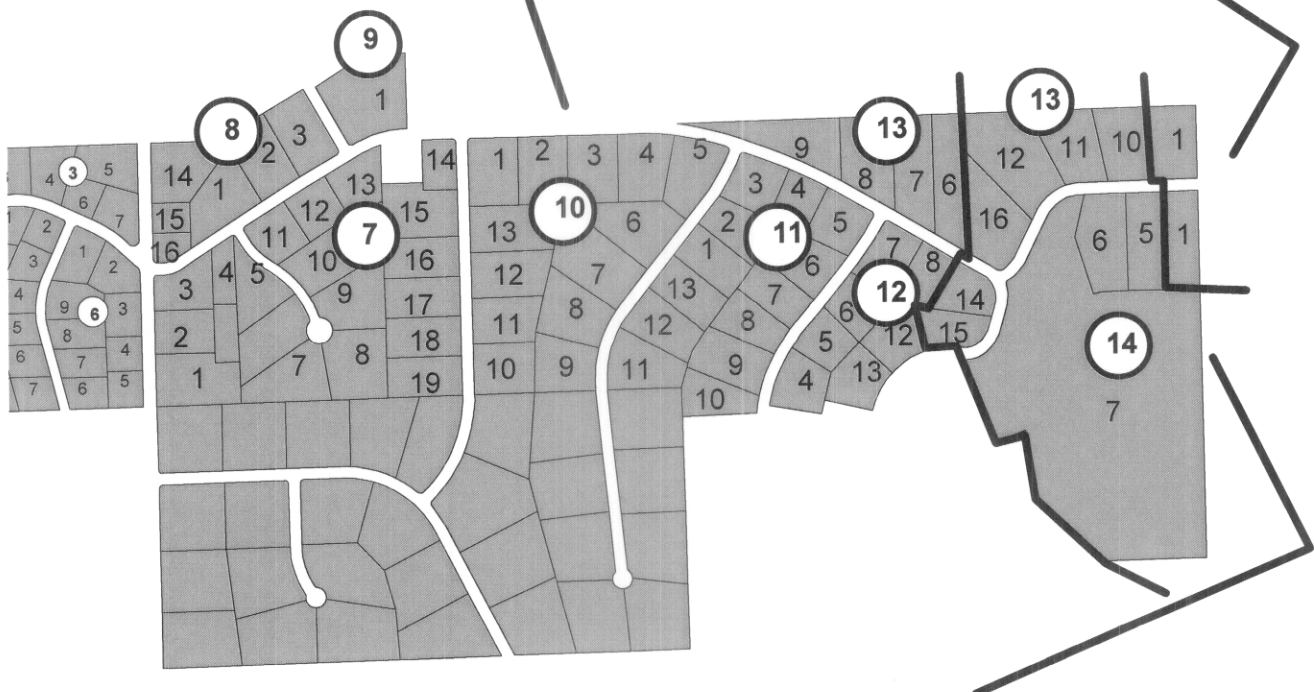
Block Number



Panoramalots.shp

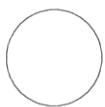
25-7100

Panorama Hills Beta Area



Panorama Hills Beta 2 Area Frst Amended

Lot Number

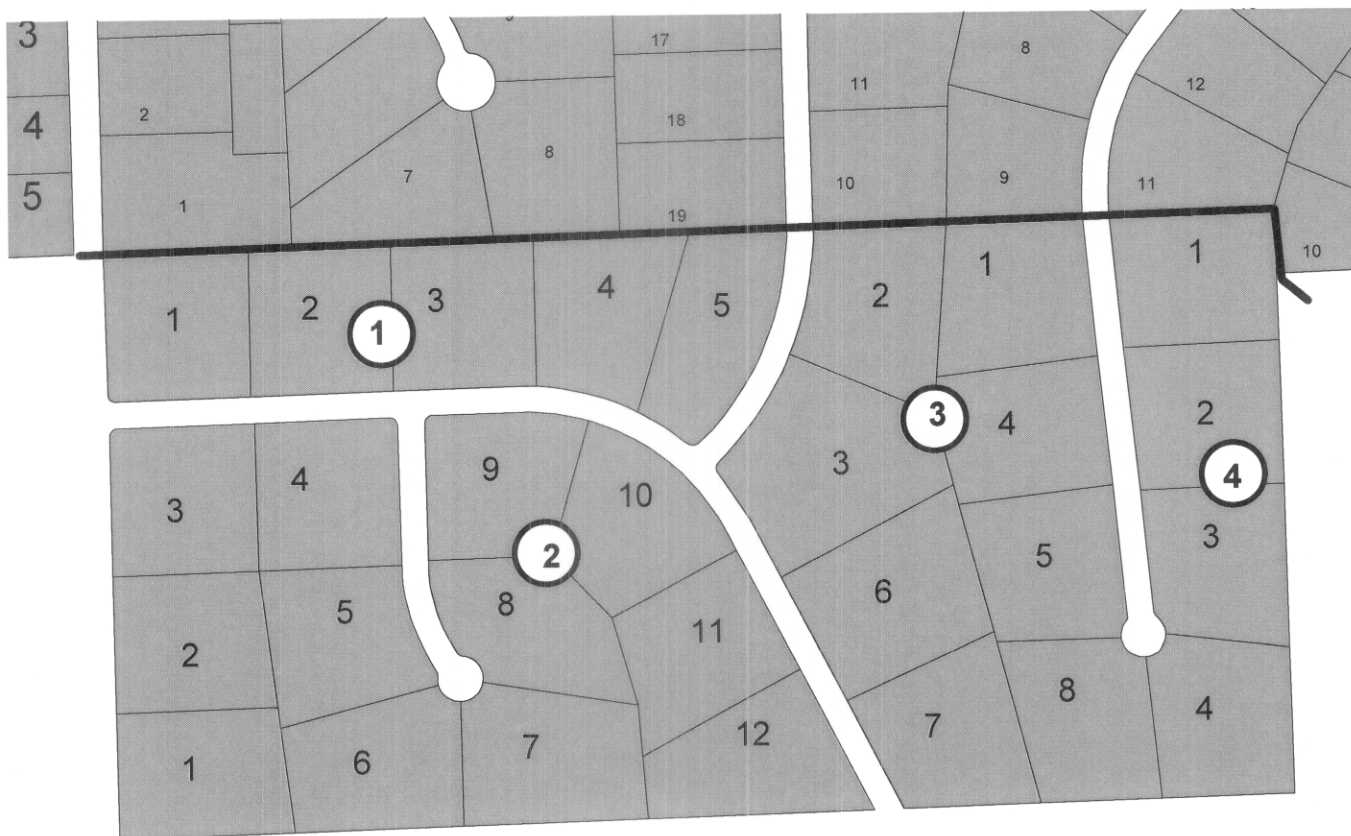


Block Number



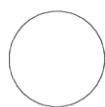
Panoramalots.shp

25-7100



Altura Verde

Lot Number



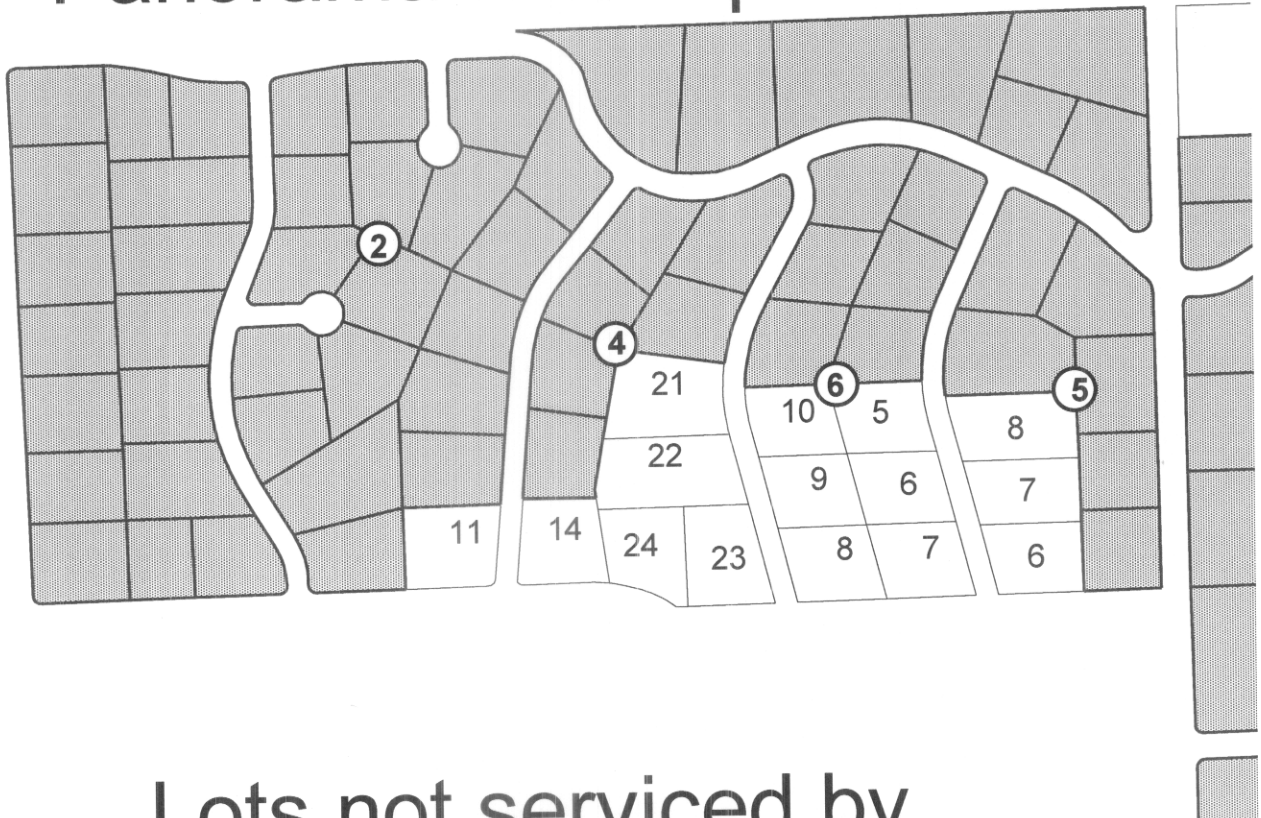
Block Number



Panoramalots.shp

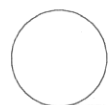
25-7100

Panorama Hills Alpha Area



Lots not serviced by
system at time of exam

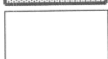
Lot Number



Block Number

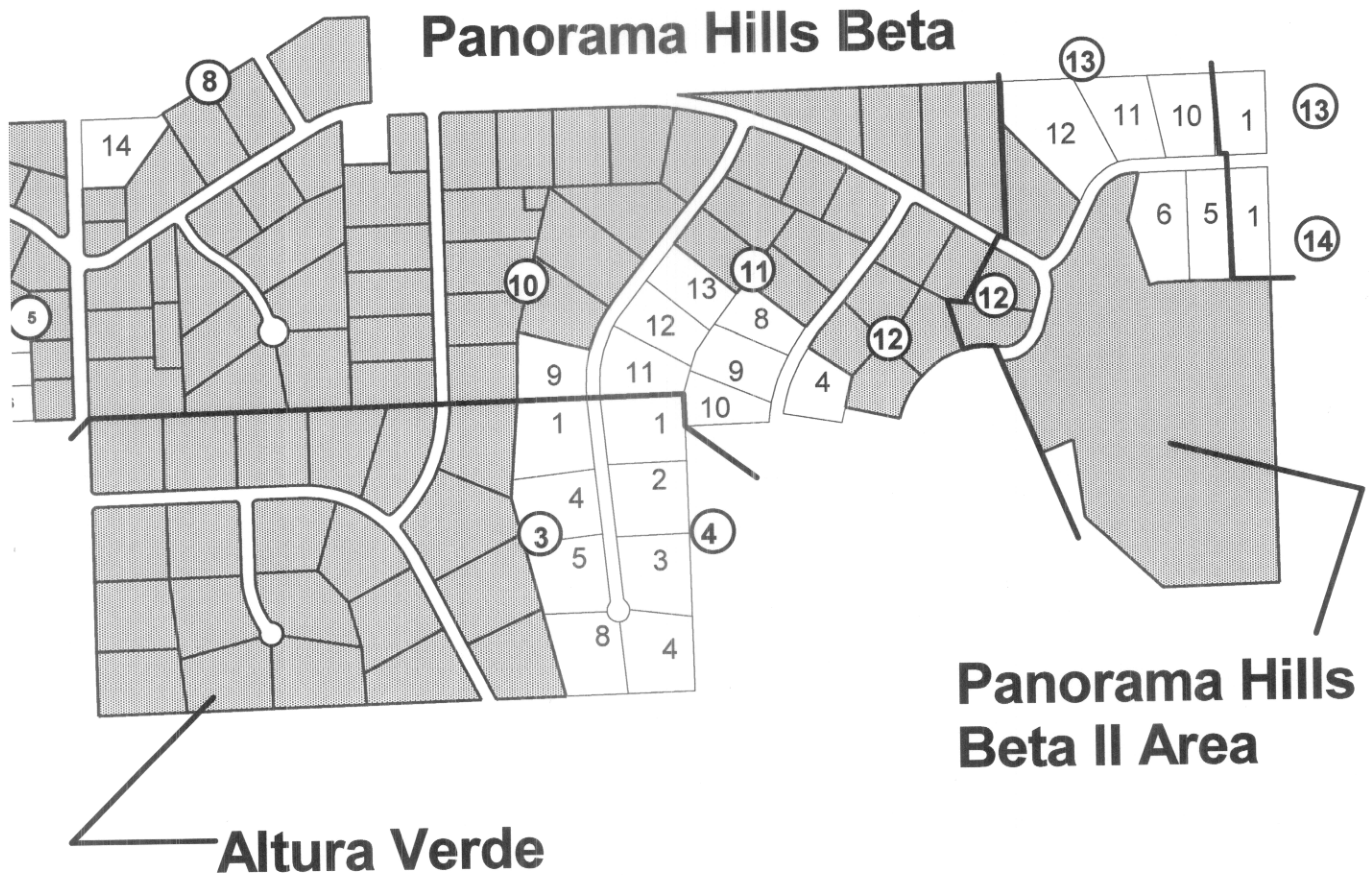


Panorama_hills.shp



Panoramalots.shp

25-7100



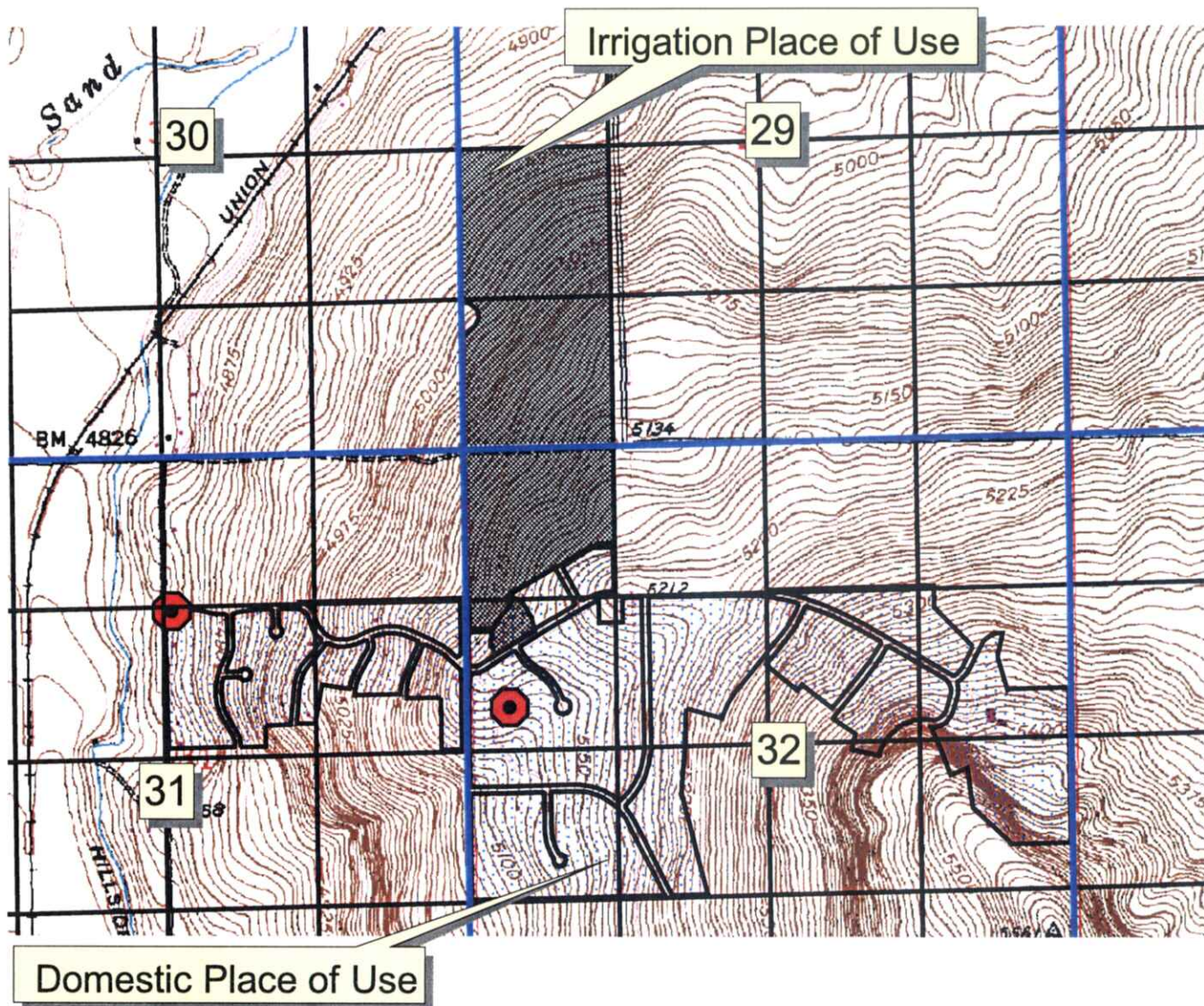
Lots not serviced by
system at time of exam

25-7100



-  Sections
-  GCDB03N39E GCDB
-  Permit POD
-  Panorama2shp.shp
-  Panorama_hills.shp







Well #1

25-07100

25-7100



Pumphouse 2

25-7100



well

Booster



25-07100