

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 27-7581

1. Owner: South Park Estates Water & Sewer Phone No. 523-2390

Current Address: 1460 N 1180 E Shelley, Idaho 83274

2. Accompanied by: Bob Morrison EXAM DATE: 6-23-99

Address: 1460 N 1180 East, Phone No. 552 2314

Relationship to Permit Holder: Owner Operator

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 27-7052

2. Other water rights with the same point of diversion: 27-7052

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

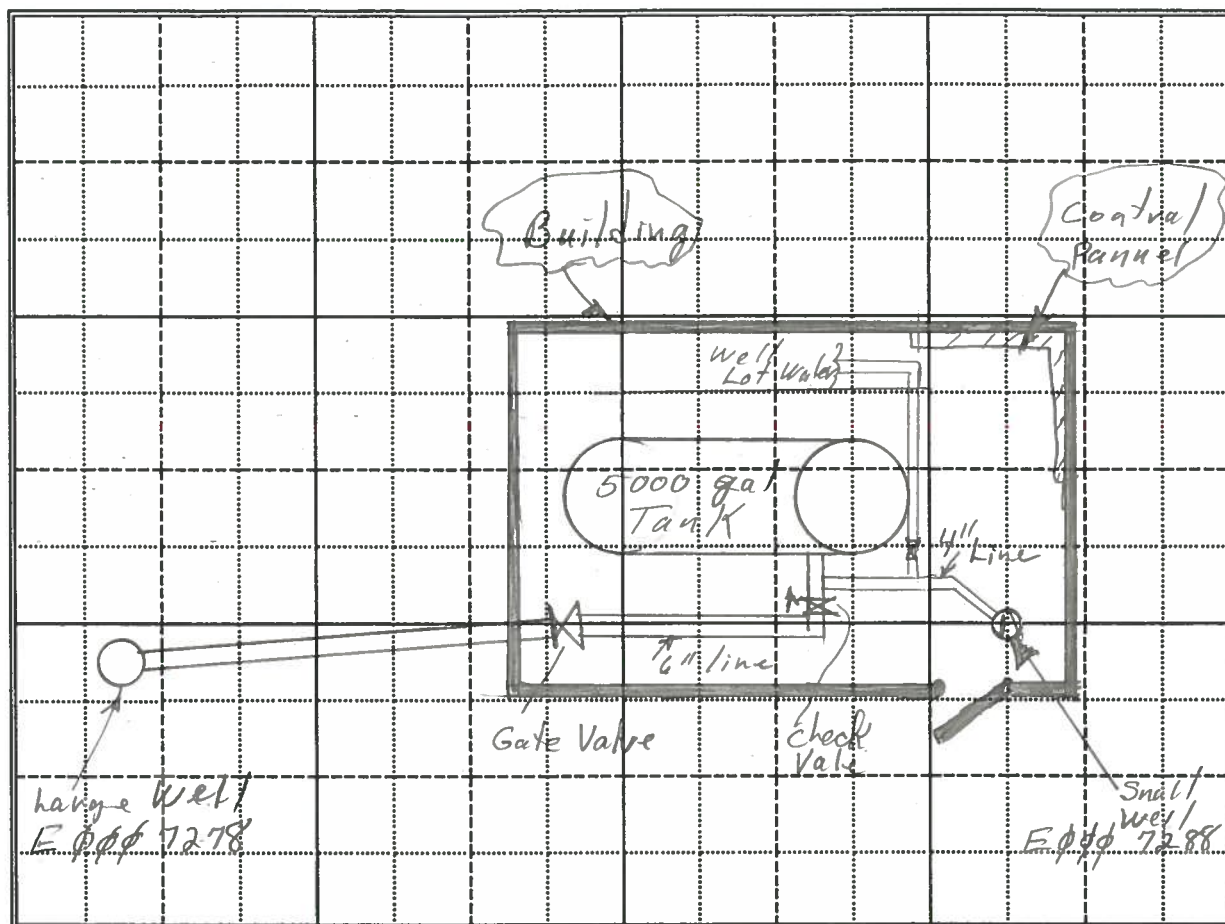
[illegible]

2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.



Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

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

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
E 000 7288		10		Red Jacket	150 gpm
E 000 7287		20		Red Jacket	270 gpm

*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

2. Measurements: Andrews Well drilling supplied Flow measurements

Theoretical worksheet = 1.02 cfs

E. NARRATIVE/REMARKS/COMMENTS

South Park Estates currently have a claim of .330 cfs and 0.330 cfs for Domestic and Fire protection. This permit would raise this diversion to 1.50 cfs for domestic and 1.50 cfs for fire protection.

The current discharge pressure is between 50 and 70 psi. A 10 Hp pump is located in south well ID # E0007288. A 20 Hp pump " " " North well ID # E0007287. During the winter months the small well (10Hp) is on line to supply the 28 homes on the system, but during the summer 20 Hp (larger) pump is used to supply the 28 homes with domestic and for watering lawns and gardens (less the 1/2 ac. each). Both pumps are used for fire protection. South Park cannot add new homes until waste water problems are solved.

27-7052 - 0.33 cfs (100 homes) and 120 AF

1.02 cfs total
- .33 27-7052

.69 cfs = this license

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

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

2. Volume Calculations for Other Uses:

106 homes max $\times 1.20 \text{ AF/A} = 120 \text{ AF/A}$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/01	12/31	0.69	120
Fire Protection	1/01	12/31	0.69	
Totals:				

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 Lee H. Simmons Date 6-28-99

Reviewer _____ Date _____

SEAL

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 27-7581

Reviewer:

Date of Review:

P/D No.:	Senerio 1	Senerio 2	Senerio 3
PUMP HORSEPOWER	10	20	0
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	65	65	0
DISCHARGE PRESSURE	50	50	0
RATE OF FLOW (cfs)	0.34	0.68	#DIV/0!

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

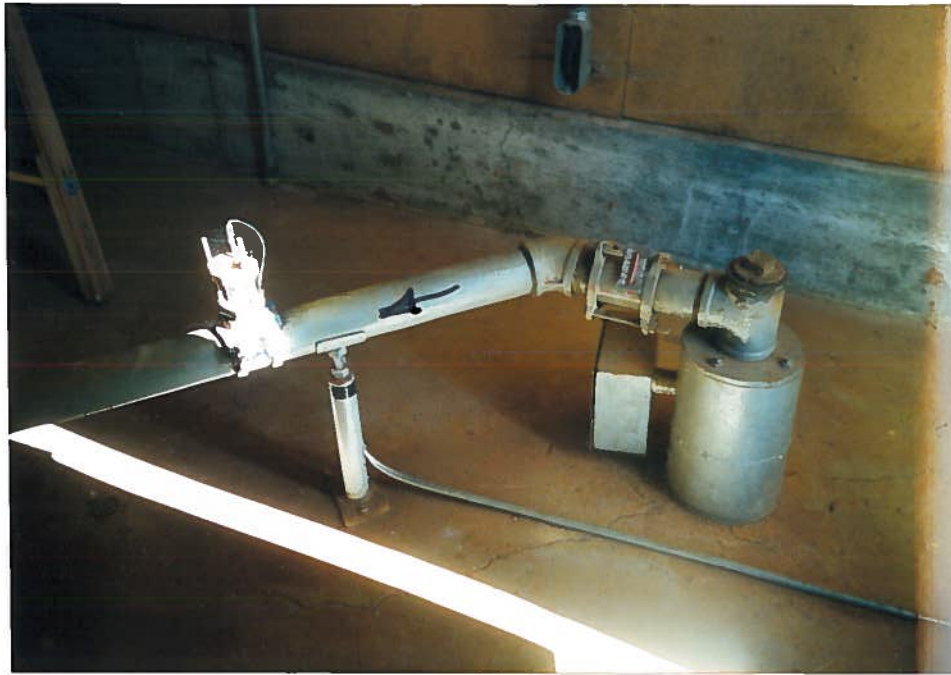
Assumptions: %70 efficiency.
No Friction



South Park pump house looking South.
well in far ground is # E7287 - 20 Hp
pump.



Pump Control Boxes on East and South walls
Permit # 27-7581



original Pump for South Park (10 HP) looking South east from door showing discharge to System



Showing inlet ~~from~~ from 20 Hp pump and 10 Hp pump, storage tank and outlet to System.

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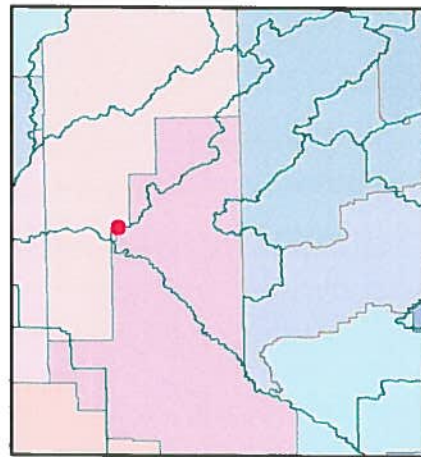
in let to storage tank from 20 hp pump
looking North with check valve visible at
end of building



Idaho Department of Water Resources

Water Right
27-7581
(DOMESTIC)

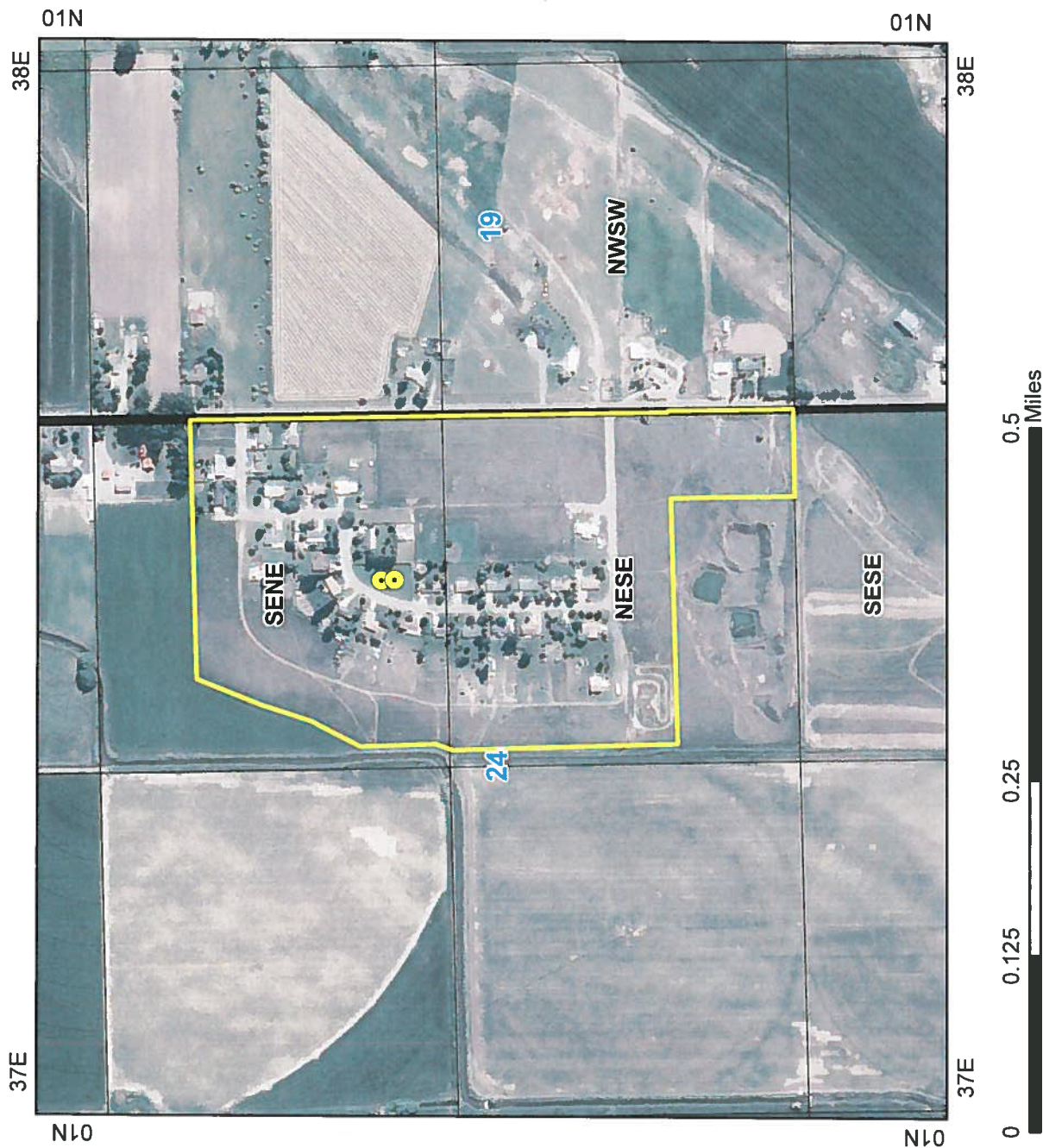
- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Bingham County
IDWR Basin 27

Prepared by Carlson, Dave

2009 Aerial Photography



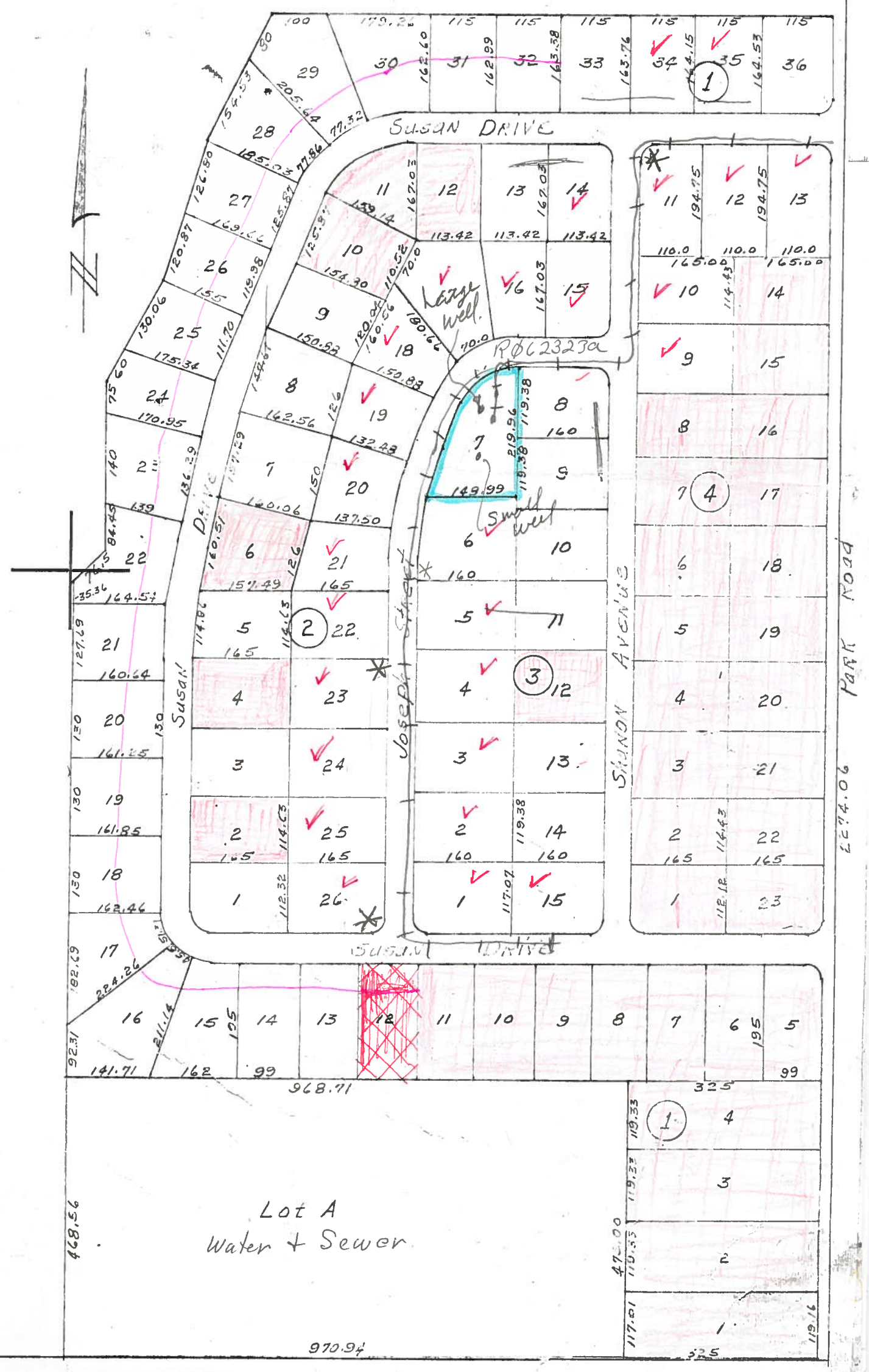
South Park Estates Div #1

Melvin M. + Joy Empey

✓ - Properties WD 5-2-75 2005-75
with homes on.

* - Fire Hydr.

28 homes on the
System 6/23/99



BINGHAM COUNTY, IDAHO

NE 4 SE 4 Sec.
SE 4 NE 4

Block or Sec. #	Lot or Tax #	NAME	Kind of Inst.	RECORDED			RECORD		See Also Sec.
				Mo.	Day	Year	Book	Page	
1	1	Alvin Evelyn C. Harris	WD	10	17	95	438	641	
	2	"							
	3	"							
	4	"							
	5	"							
	6	"							
	7	"							
	8	"							
	9	"							
	10	"							
	11	"							
	12	Gail Cronquist + Bud Anderson	QCD	2	20	90	387	467	
	13	Evelyn C. Harris	WD	10	17	95	438	641	
	14	"							
	15	"							
	16	"							
	17	"							
	18	"							
	19	"							
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	24	"							
	25	"							
	26	"							
	27	"							
	28	"							
	29	"							
	30	"							
	31	"							
	32	"							
	33	Boyle, Terry L. + Debra	WD	8	8	82	373	648	
	34	TERRY L. + DEBRA R. BOYLE	WD	3	8	79	249	701	
	35	Ross L + Martha A. Oviatt	WD	7	28	80	269	200	
	36	Samuel R / Gail Anderson	QCD	7	10	98	467	448	