

MEMORANDUM

TO: Files 65-13361 and 65-13574

FROM: Sharla Curtis

DATE: August 20, 2014

RE: License Review

An initial field examination was conducted for Permit 65-13361 by a temporary examiner in 1994. He indicated the motor on the well was a 5 hp GE and he made a theoretical calculation of 0.14 cfs using those details. The photos contained in his field report show a log-built pumphouse and a single pressure tank. A memo dated 12/30/94 from Jan Shurte (attached to the field report) explains the mix-up in wells and states the need to re-verify the location of the correct well.

In July of 1995, Steve Lester re-visited the site with the president of the HOA and prepared a field report for Permit 65-13574. A copy of that report was used as the "Re-Exam" for 65-13361. I have reviewed both permits for the purpose of issuing licenses.

Hp = 3, Well depth = 140', 19 homes built and 26 others stubbed lines ready
All 45 units for internal use only are served by this single well; no community irrigation system. Based on 2004 exam information in municipal right 65-22358, this well was replaced and the system upgraded after these 2 domestic permit exams were done. There are now 2 municipal wells in cottage site Lot 47 and 1 of those wells is shared with these 2 permits. See memo attachment about this. "Well #2" is the overlapping POD in this case. The upgraded system can provide enough water for the municipal right and these 2 permits. System capacity for these permits is appropriately based on information from the domestic exams pre-dating the municipal upgrade.

Proof for overlapping municipal permit 65-23064 has not been filed, so that permit does not need to be included in this analysis. Therefore, rights 65-13361, 65-13574 and 65-22358 are diverted through 1 of the 2 wells in Lot 47.

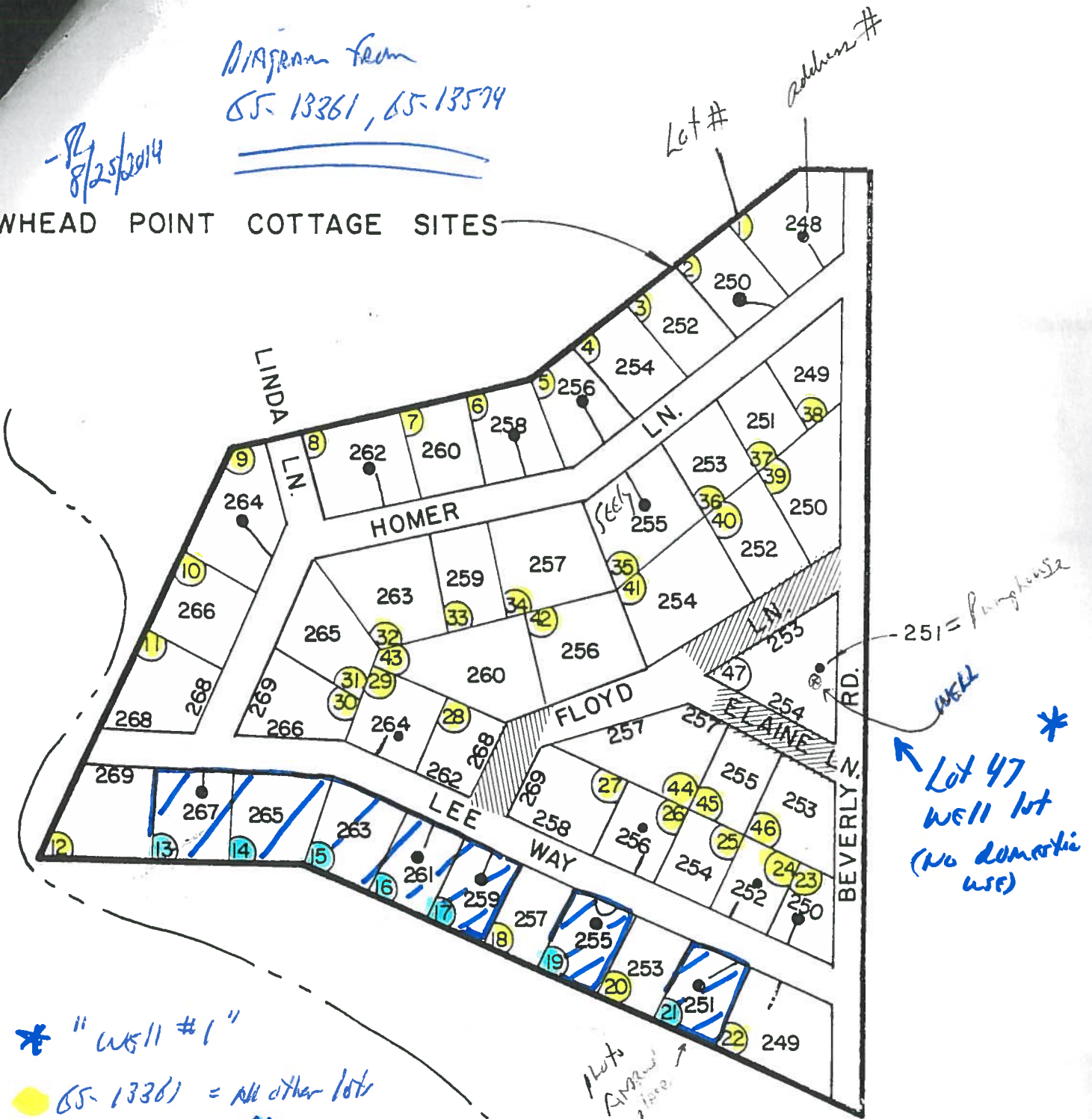
$$Q = \frac{8.8 \times .7 \times 3}{(2.31 \times 30 \text{ psi}) + 50} = \frac{18.48}{119.3} = 0.16 \text{ cfs}$$

The permit holder paid exam fee for 0.20 cfs (63-13361). Using the smallest psi that I could (based on Steve's exam comment identifying 30-40 psi) and using static water level (according to president of the HOA referenced in Steve's report) plus a very small amount of drawdown, the calculation yields 0.16 cfs. The HP equation is slightly more than 75% of the exam fee rate, therefore, in this case it is appropriate to allow 0.20 cfs as the system capacity to be licensed. The other permit (65-13574) will be licensed for the permitted rate of 0.12 cfs with conditions placed on both rights limiting combined rate to 0.20 cfs.

-8/25/2014

Diagram from
65-13361, 65-13574

ROWHEAD POINT COTTAGE SITES



251 = Pump house
WELL
* Lot 47
Well lot
(No domestic use)

* "Well #1"

- 65-13361 = All other lots
- 65-13574 = //

After these exams: North Lake Reg 5+6 District, municipal use

65-22358 license ~ Well #1 replaced by "Well #2", pump etc appended
65-23064 permit and "Well #3" Added, All in Lot 47

SO POO overlap "Well #2" < 65-13361 & 65-13574 c cottage sites
65-22358 c municipal AREA
(65-23064 pending)

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Staff Analysis Sheet
Beneficial Use Field Report

A. Prior to Conducting the Exam, the File Contains:

- ☒ Blank Field Report Form
- ☒ Copy of Permit
- ☒ Copy of Proof of Beneficial Use
- ☒ Copies of any Amendments/Orders with Conditions of Approval
- ☒ Well Inspection Form (If Needed)
- ☒ Aerial Photo Required? ☐ yes ☒ no If yes: ☐ copy attached
- ☒ SRBA Claim Required (required if proof filed by 11-19-1987)
☐ Yes ☒ No If yes: ☐ claim filed?
(check AJ5, AJQ1, AJQ4, non-data claims)
- ☒ Copy of U.S.G.S. Quad
- ☒ Check for Government Lots. If so, make a copy of government plat
- ☒ Check of P/D index 7/19/95 (initial & date) *None in 5.4*
Overlap ☐ yes ☐ no If yes: ☐ copy of exam(s) attached?
Type of Overlap: ☐ Same source
☐ Other source
- ☒ Check of P/U index 7/19/95 (initial & date)
Overlap? ☐ yes ☐ no If yes: ☐ copy of water right(s) attached?
Type of Overlap: ☐ Same land, same source
☐ Same land, other source
☐ Other land &/or other uses
- *copies attached only if needed for analysis

- N/A Scheduling Letter Sent? _____ (initial & date)
- ☒ Appointment Made and Telephone Conversation Memo Attached

B. After Conducting the Exam, the File Contains:

- ☐ Fully Completed and Signed Field Report Form
- ☐ Photographs of Point of Diversion and Place of Use

C. Review and Processing:

- Exam Completed _____ (signature of examiner & date)
- Exam Sent to State Office _____ (initial & date)

*This pg. stays at Western
but exam is attached for file*

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

This report is for
Exam 65-13574 &
RE-Exam 65-13361

A. GENERAL INFORMATION

Permit No. 65-13574

1. Owner: Arrowhead Point Subd. Homeowners Assn. Phone No. 375-4916

Current Address: 40 James Seely, 2010 S. Eagleson Rd, Boise, ID 83705

2. Accompanied by: James Seely EXAM DATE: 7/20/95

Address: — as above — Phone No.

Relationship to Permit Holder: President

3. Source: groundwater tributary to

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 SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	—		NW	SE	4	15N	3E	Valley	7 1/2' fup + Valley Co. Rural address plat

2. Place(s) of Use:

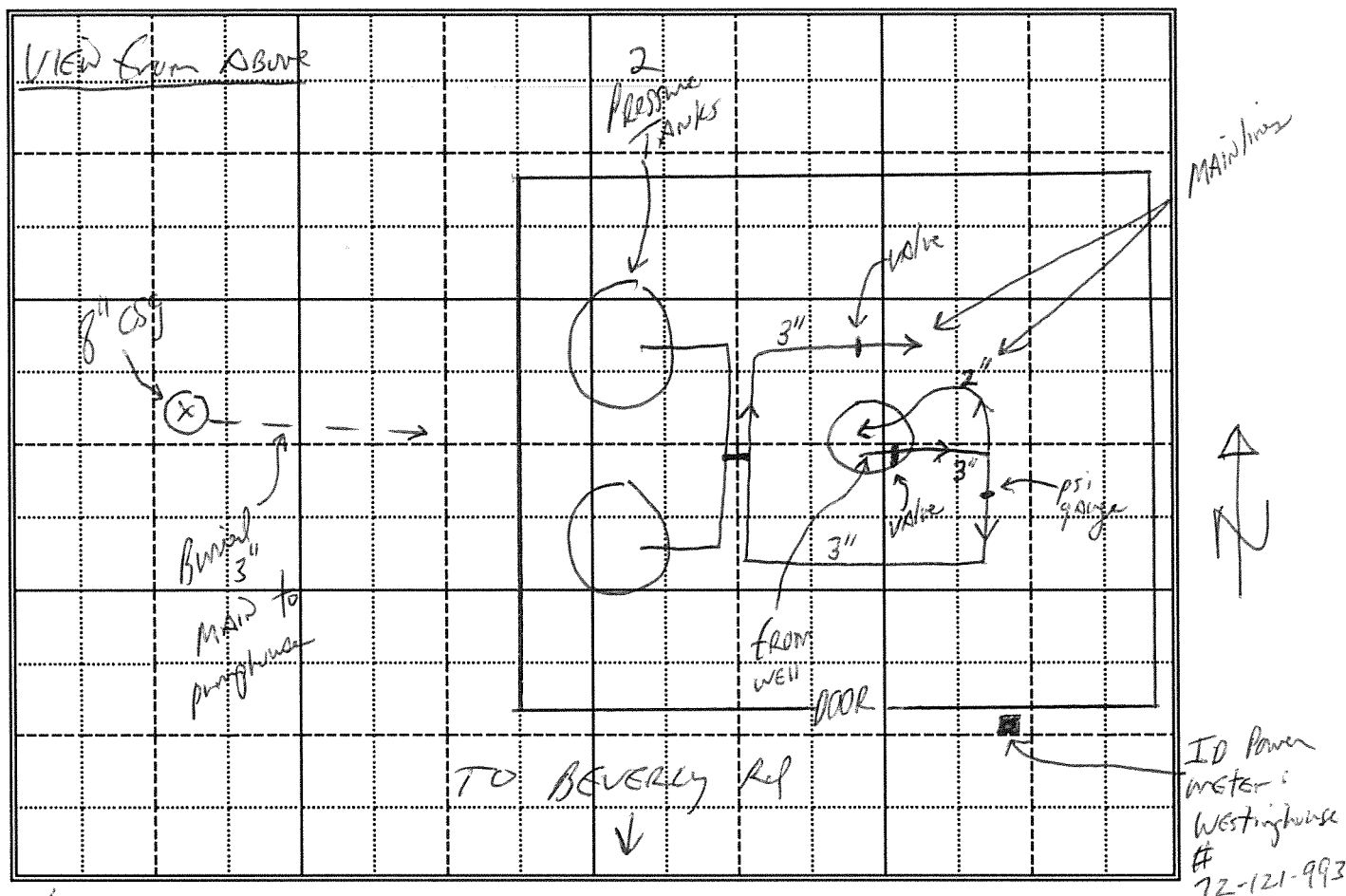
Indicate Method of Determination same

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15N	3E	4														D			—
I confirm that did this																			
in complete report in 1995																			
- Steve Lister 8/25/2014																			

NO irrigation
from this system

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

WELL is 2.47 of field.



Scale: 1" = N/A

☒ 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 ^{model} Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Franklin Elect. Subm.	3	2823028110	Franklin PumpTec	5800020100, 3"
					M.O.D from 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
NONE						

2. Measurements:

NONE possible - System on water pressure drops (demand system) so could not measure. Even if on, no place for good polysonic placement unless dig up mainline(s). Recommend M.O.D. Requirement be modified to use only if required in future situation - due to typical community well without M.O.D.

1 well - entire sub. - via 2 rights:

NARRATIVE/REMARKS/COMMENTS

8", 140' well with 3 hp subm. motor/pump serves 3" main to pump house located c 15' north of well.

In pump house, main splits into 3" & 2" delivery mains, and each ~~unit~~ employs 3/4" or 1" hookup. 19 homes built, ~~and~~ 26 other lots have stubbed lines ready and

for use (observed a number of stubbed lines at lots during exam). Two pressure tanks in pump house help regulate use.

Internal use only. Seems to supply adequate water per Mr. Seely.

D.P. 65-91-W-076 (issued for 65-12780, 1/25/94).

DATA -

D/45 int. only

normal psi ~ 40 (Rogz ~ 30-40 psi)

static ~ 20' (log)

Z ~ 30' (President)

no pumping data available after well drilled.

can hook up 2-3 hp suppl. pump but have not done this yet - so effective hp is 3.

Per 1994 exam 65-13361 & J.S. Memo dated 12/30/94 found id that file is Mr. Seely's current info:

65-13361 used to be served by other well(s) but switched to new well drilled 8/91. Now both rights for all 45 units

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

Served only by this single well.

This all occurred prior to 1994

so orig. exam info is 65-13361 somewhat incorrect.

Overlap - no other users from this well; no other providers of

comm. & water - this sub.; no community inv. system.

F. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: *HP Eq. 1,566 data previous ps*

$$Q = \frac{8.8 \times .7 \times 3}{(2.31)(1) +} =$$

G. VOLUME CALCULATIONS1. Volume Calculations for Irrigation: *N/A* $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ 2. Volume Calculations for Other Uses: *0/45 int total but covered is 2 rights***H. RECOMMENDATIONS****1. Recommended Amounts**

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<i>Domestic</i>	<i>1/1</i>	<i>12/31</i>		
Totals:				

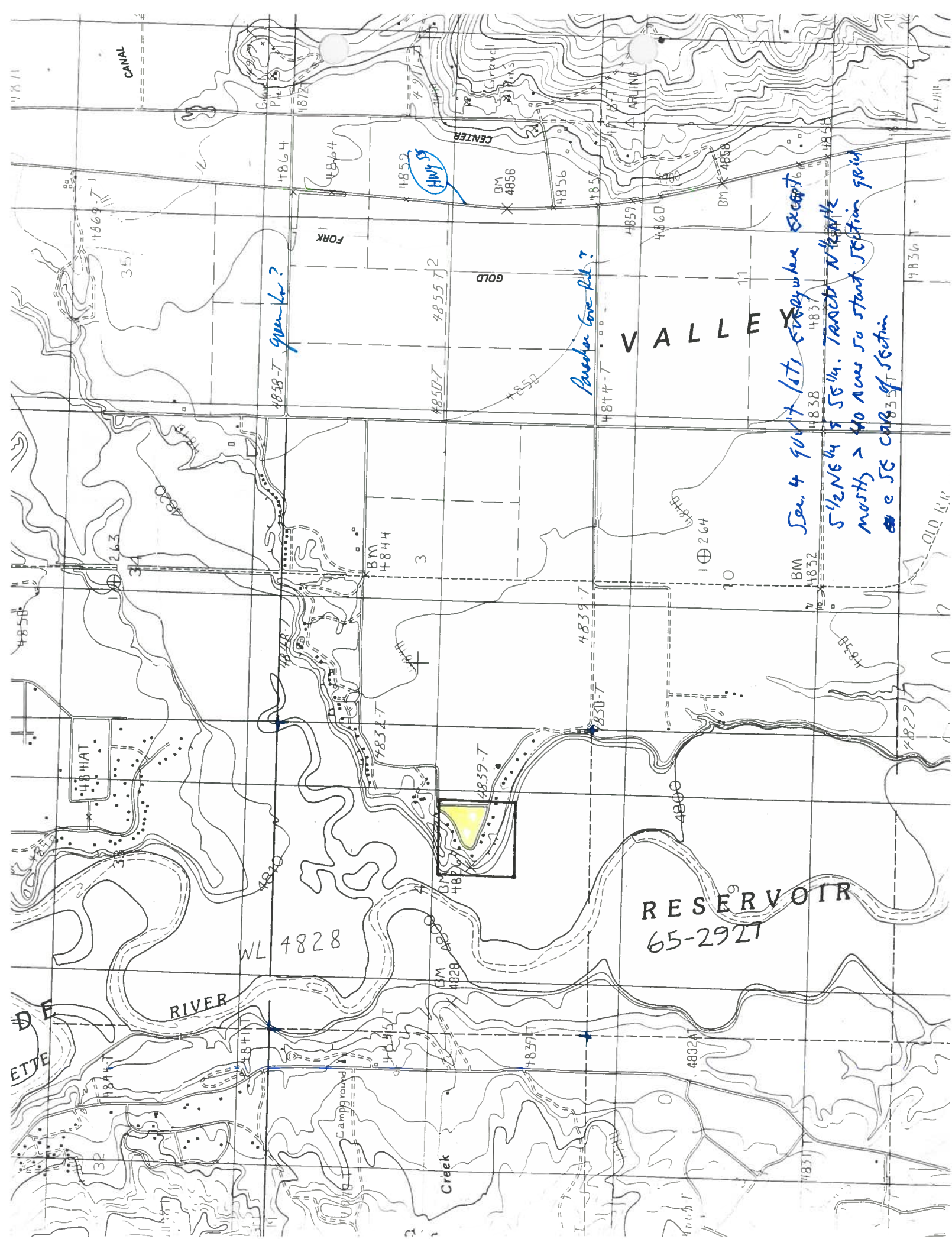
2. Recommended Amendments

☐ 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. AUTHENTICATIONField Examiner's Name *Steve Lester* Date *7/20/95*

Reviewer _____ Date _____

SEAL



IDAHO DEPARTMENT OF WATER RESOURCES

WELL INSPECTION FORM

issued for 65-12780
(now lapsed)

65-13361

1. DRILLING PERMIT NO: 65-91-W-076 OTHER APPLICABLE NO: 65-13574

2. OWNER: _____ Phone: _____
Address: _____

3. WELL LOCATION: Twp _____, Rge. _____, Sec. _____, _____ 1/4 _____ 1/4
County _____ (Provide sketch map and photo on reverse.)

4. DRILLER: _____ Lic. No. _____
When Drilled? _____

5. WELL CONSTRUCTION:
Casing Diameter 8 inches Water tight cap? ☒ Yes ☐ No Access Port: ☐ Yes ☐ No
Casing $\geq$ 12 inches above ground? ☒ Yes ☐ No - Describe _____
Depth of Casing _____ ft. Method Drilled _____
Condition of Well Casing: ☒ Good ☐ Fair ☐ Poor Describe _____
Control Valve? ☒ Yes ☐ No Pressure Gauge: ☒ Yes ☐ No } in pump house
Condition of Piping and Valving good
Auger to a depth of _____ ft. Evidence of Annular Seal ☐ Yes ☐ No
Are there obvious constuction problems that may be a source for contamination or waste of water?
☐ Yes ☒ No (Describe in Remarks and Attach Photo - On Reverse)

6. HYDROLOGIC INFORMATION:
Depth to Static Water 20 ft. Water Temperature _____ °F
Flowing Artesian ☐ Yes ☒ No Pressure: typically 30-40 (psi)
Water Sample Taken? ☐ Yes ☒ No If yes, describe purpose _____
Water Quality Measurements/Observations (Describe) _____

7. WELL USE: community well
☒ Domestic 0/45 ☐ Irrigation ☐ Stock
☐ Test ☐ Municipal ☐ Industrial
☐ Abandoned ☐ Waste Disposal/Injection ☐ Not Used
☐ Other: _____

1) well & pump house



2) in pump house

1 In line from
well

2 Out lines
to units



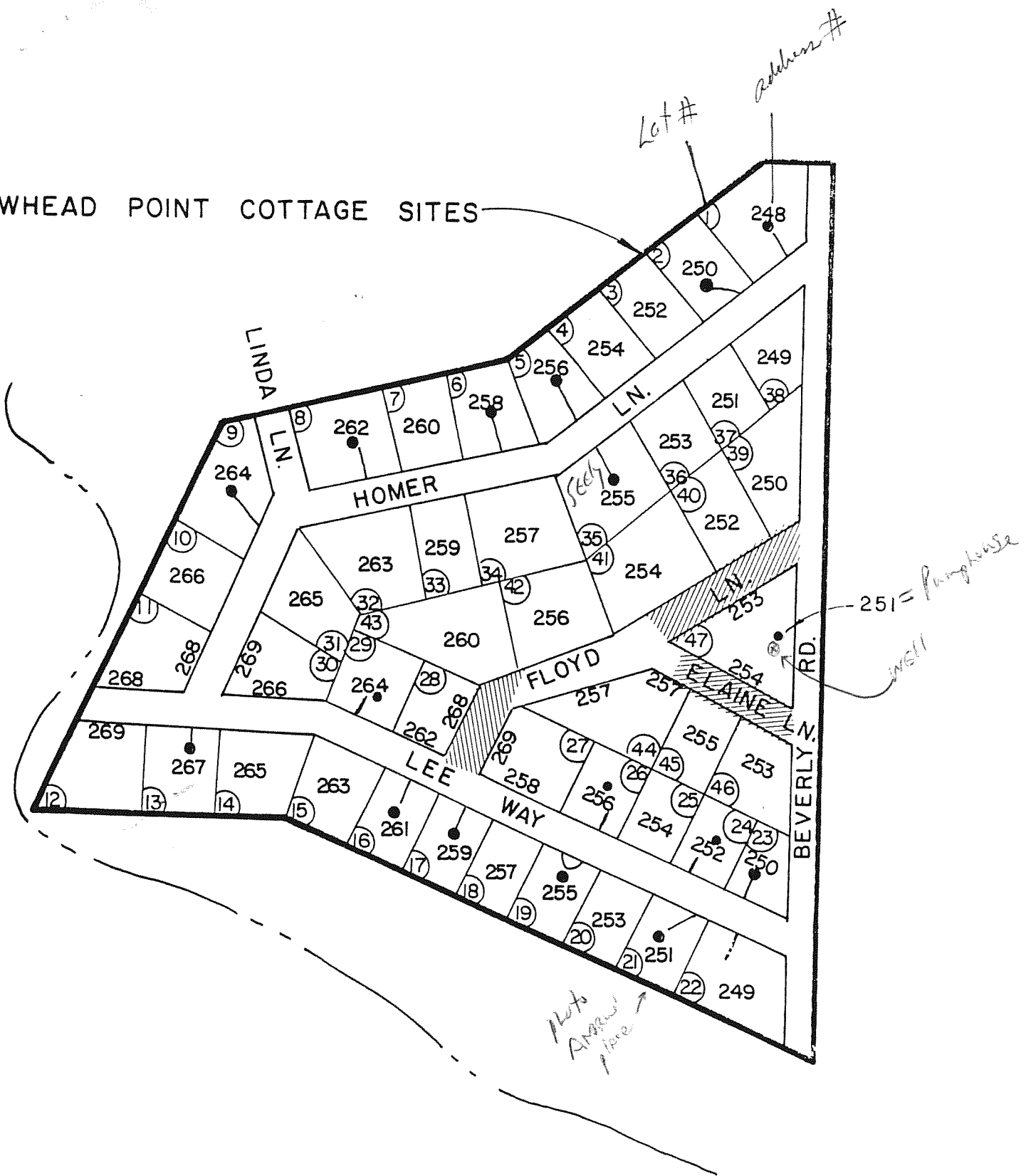


3) Typical
hook-up line
& marker

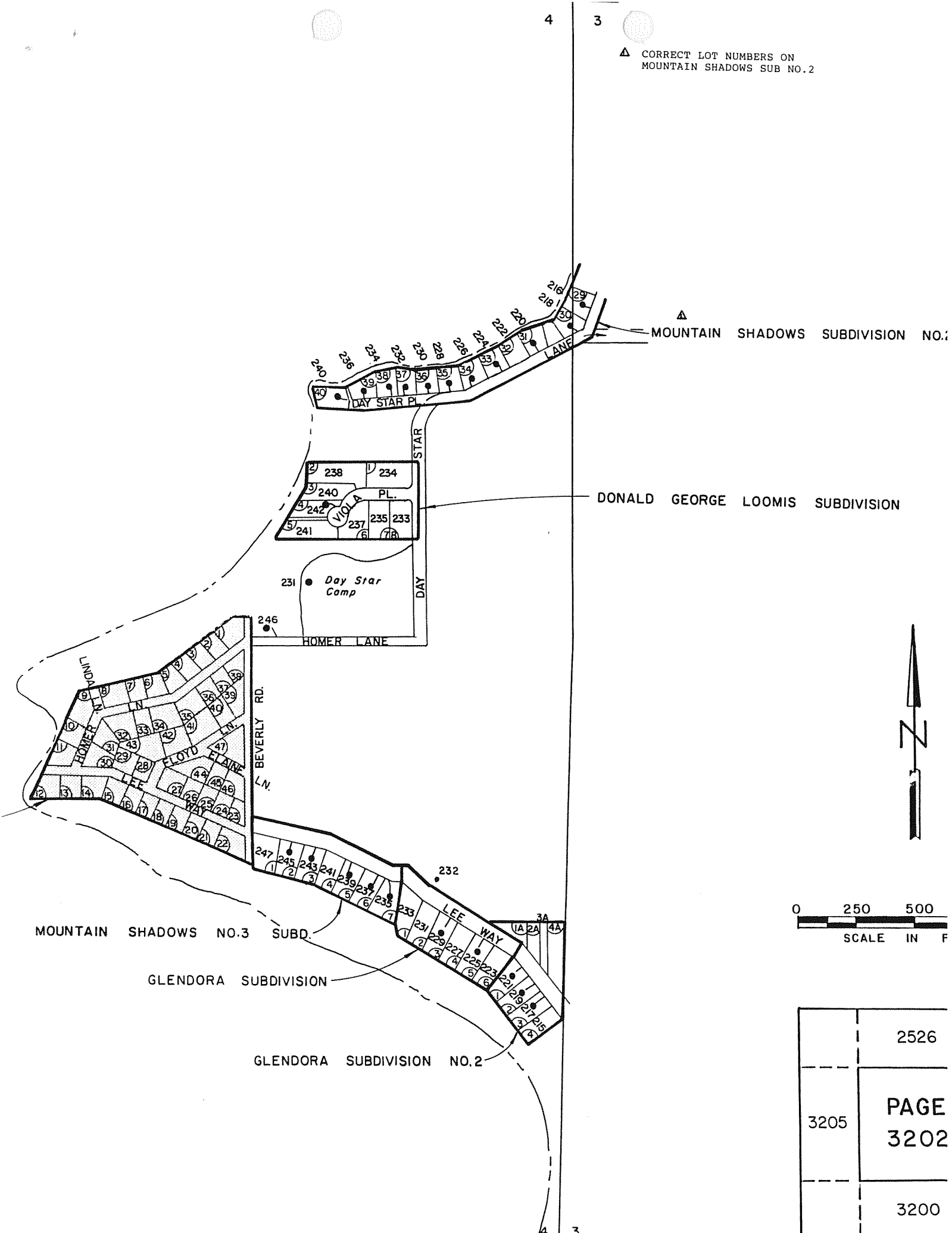
4) Typical
domestic unit
This one is
251 Lee Way



ROWHEAD POINT COTTAGE SITES

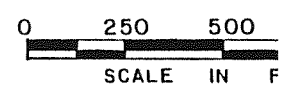


Δ CORRECT LOT NUMBERS ON
MOUNTAIN SHADOWS SUB NO.2



Δ MOUNTAIN SHADOWS SUBDIVISION NO.2

DONALD GEORGE LOOMIS SUBDIVISION



MOUNTAIN SHADOWS NO.3 SUBD.

GLENDORA SUBDIVISION

GLENDORA SUBDIVISION NO.2

	2526
3205	PAGE 3202
	3200

CONVERSATION MEMORANDUM

DATE

7/18/95

FILE

65-13361

NAME OF PARTY

Jim Seely

EMPLOYEE

Steve Foster

-13574

RE:

Exam - Drop by OK, his wife will be
here

At 255 Homer Ln.

if @ home, ✓ across st to left e Dinkins,
dark brown house, set back

now 1 well (wanna)

was 3 wells

1 Abandon

1 fence other property

1 new one does all

D/7 old system/old well > D/45 now all
D/38 new " new " } new well

± 19 lower rd; situal lots others

not use only; no yard how system for community

5 hp; ~135' setting

call Glen Lewis 325-8851 if need specs.

Directions From Bridge Hwy 55: 10.1 miles, L on
Kendall Rd, ~1 1/2 mi to old state hwy, R e 1 1/2 mi,L on Dayton Rd, go ~2 miles, corner etc., then R on
Homer Ln (sign), stay on, go R (on straight) e 1/4, 1st on left,

red kerf. If @ home, turn x st. to L. Dinkins, dark brown

His wife
should be
@
255 Homer

CONVERSATION MEMORANDUM

DATE

7/12/65

FILE

65-13361

65-13574

NAME OF PARTY

Armed. Pt. SUBD.
James Jolly 375-4916

EMPLOYEE

Steve Letta

RE:

RE-Exam

+

Exam

(13361)

(13574)

Left msg today - call me, hope for 7/20 p.m.
exam (a.m. = protest conf. after WR(1))

SUBD. plot

County address book plot

turn further

7/14 called again - left msg. again

- also got # for page 887-0722,

left msg. there also