

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Original 1991 Exam Report

A. GENERAL INFORMATION

Permit No. 65-07573
Phone No. 634-5121 (office)
EXAM. DATE: 8/1/91
Phone No. AS ABOVE

1. Owner: Jughandle Corp. % Ed Herschgold, Pres.
Current Address: % PO Box 1324 McCall Id. 83638
2. Accompanied by: KEN Grotjohn & Ed Herschgold
Address: maint. sup. & Pres., respectively
Relationship to Permit Holder: _____

3. Source: groundwater tributary to _____

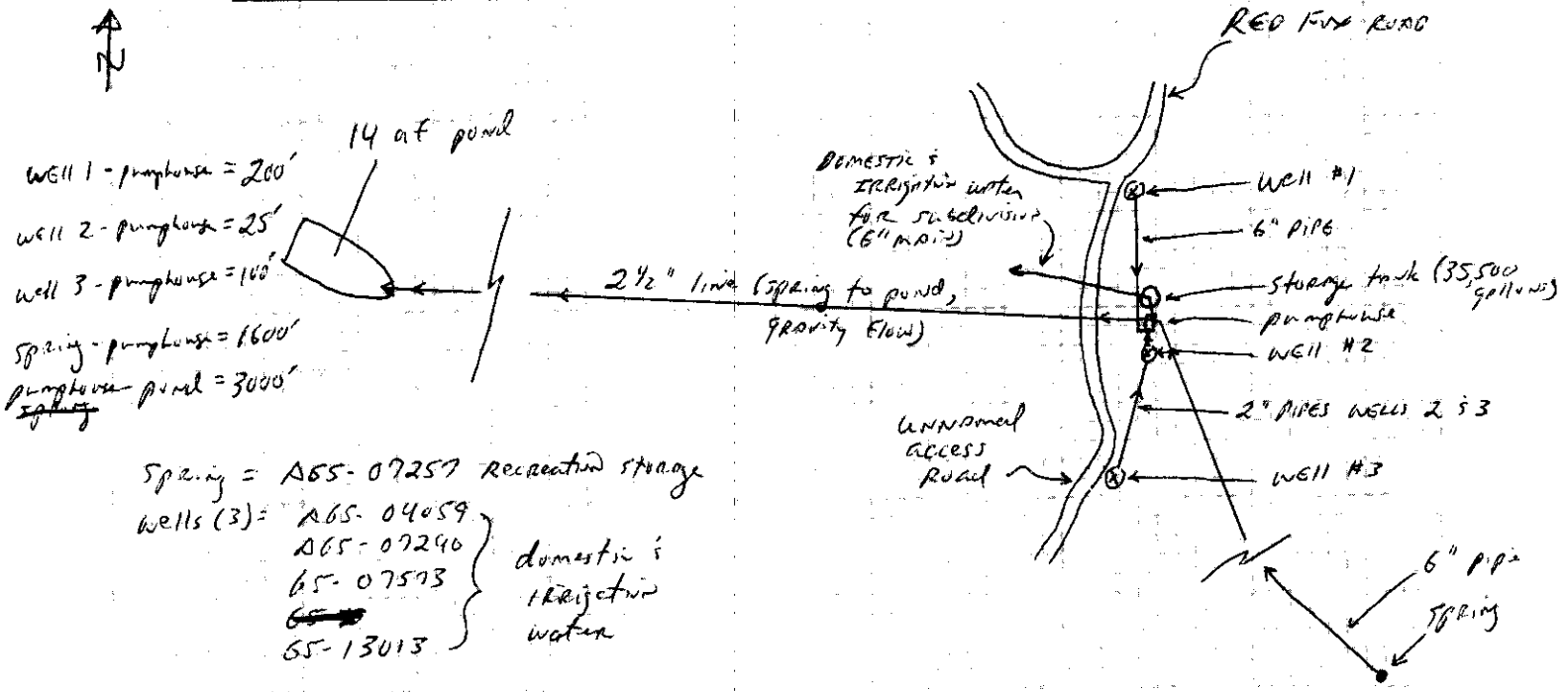
B. OVERLAP REVIEW

1. Other water rights with same place of use: 65-13013, A65-04059, A65-07290, 65-05708, 65-02330 ☒ Copies Attached ~~AS needed~~
2. Other water rights with same point of diversion: 65-13013, A65-04059, A65-07290 ☒ Copies Attached ☐ Copies of Field Exam's Attached SEE 65-13013

C. SYSTEM DESCRIPTION

1. Diversion System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached

THIS EXAM CONTAINS INFO PERTINENT TO A65-04059, A65-07257, A65-07290, AND 65-13013



Scale: 1" = NOT TO SCALE

2. ☒ Copy of U.S.G.S. Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).
☒ Photo of Diversion and System Attached (required for all but single household domestic groundwater, and stockwater).
☒ Aerial Photo Attached (required for irrigation of 10 acres or more).

System Description (continued)

3. **Narrative:** Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

3 wells drilled in 1985 now serve the subdivision known as Tugboat Estates Nos. 1 & 2 and Tugboat Highlands Nos. 1 & 2. A total of 108 homes or units (107 in subs. plus 1 bordering subd.) and 25 acres of irrigation (yards) are associated with the system. The wells deliver water to storage tank (35,500 gallon tank) & pump house & are delivered to p/n through 6" mains. 4" branch lines and smaller individual lines complete the delivery system. Well water does not go to the pond in NW 1/4. Spring water does not go to the homes or yards. (spring = 65-07257). SEE Attachment A for summary of exam methodology.

☐ See Remarks on page 4 for continuation

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
1	Franklin	7.5	model 226/119010	Berkely	model 6R1-15; 1625019
2	"	1.5	model 2443090117	Gundel	model 25 EL15
3	Grundfos	1.0	model 82-456904/3522	Same as motor	Same as motor

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
1			NE	NE	7	17N	4E	Walling	USGS 7½' topo & ASES photo;
2			*		7	"	"	"	subd. plats. wells connected
3			SE	NE	7	"	"	"	into common system.
									* Pt. on NENE-SENE line.

6. Place(s) of Use:

Indicate Method of Determination AS 12 P/O + Attachment

[illegible]

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Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE POSSIBLE						

2. Measurements:

SEE PUMP CURVE, HP EGS., summarized in Attachment D

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

1. Measured Method:

System capacity = .23 cfs

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}} (3.0)$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}} (184) (1.9835) =$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$

2. Volume Calculations for Other Uses:

SEE ATTACHMENT A for DOMESTIC & irrigation volumes

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Domestic use is for 12-hour use for 100 hours. See other remedy conditions in Attachment A.

~~Review sub-saving measuring device requirements.~~

Same wells as in A65-04059 & A65-07290.

A65-07257 is for a study for reaction pond for the corporation.

65-05708 is warm steam for most of the pores in W $\frac{1}{2}$ NW $\frac{1}{4}$.

DS. 02330 is Boulder Cr. for some " " " " snow & n.w.s. }

ATTACHMENT A = methodology & recommendations, B = land list & worksheets, C = subd. plans (4), D = Pump curve & HP Equations.

SPBA claim A65-07573 was filed.

~~SEE LETTER DATED [redacted] FOR DETAILS ABOUT GRANT FEE.~~

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	.12	8.7
Irrigation	4/15	10/15	.12	42.8
		Totals:	.12	51.5

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 NATURE OF USE PER ATTACHMENT A

J. AUTHENTICATION

Field Examiner's Name Steve Lester

Signature Steve Lester

Certification Date _____

Field Report Preparation Date 2-8-92

CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

* JEE 11/18/2005 Exam Report
for final details &
Recommendations

28.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Original 1991 Exam
Report

A. GENERAL INFORMATION

1. Owner: Jughandle Corp. c/o Ed Herschgold, Pres. Permit No. 65-13013
Current Address: c/o PO Box 1324 McCall Phone No. 634-5121 (office)
ID 83638
2. Accompanied by: KEN Grotjohn & Ed Herschgold EXAM. DATE: 8/1/91
Address: AS above Phone No. _____
Relationship to Permit Holder: point sup. + Pres., respectively
3. Source: groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: _____ ☐ Copies Attached
2. Other water rights with same point of diversion: _____ ☐ Copies Attached ☐ Copies of Field Exam's Attached

C. SYSTEM DESCRIPTION

1. **Diversion System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. ☐ Alternative diagram attached

*=SEE EXAM 65-07573 FOR

TOPO
gov't lot plat
ASCS photo
Attach. A - methodology & recommendations
" B - land list & ~~work~~ worksheets
" C - subd. plat
" D - pump curve & HP eqs.

Domestic use chart
Lot & acre worksheet
well logs
well inspection forms
photographs
overlay info

Same wells in both permits

Scale: 1" = _____

2. ☐ Copy of U.S.G.S. 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 or more).
☐ Photo of Diversion and System Attached
(required for all but single household domestic groundwater, and stockwater).

System Description (continued)

3. Narrative: Description (As operating at time of measurement. Indicate pressure, number of sprinklers, etc.)

*

☐ See Remarks on page 4 for continuation

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
* 					

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

5. Point(s) of Diversion: This permit lists 3 pt. to QQQ (only to QQ in permit 65-07573)

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
1	*	SW	NE	NE	7	17N	4E	Valley	
2	*	SE	NE	NE	7	"	"	"	} single pt. on QQQ line for well #2
3		NE	SE	NE	7	"	"	"	

6. Place(s) of Use:

Indicate Method of Determination

*

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
17N	4E	7	2.1	2.5	2.8	1.9	2.8	2.5	1.2	3.4	2.1	.9				2.8			24.0
						D		Lot 1	Lot 2			Lot 3							
			25 acres shown in tract but limited to 24 acres within any irrigation season as explained in Attachments A & B																
			See Attachment B in 65-07573 for Land List																

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D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method:

*See 65-07573 Exam data, allow .04 cfs
for this right.*

2. Alternate Method for Checking Purposes:

F. PUMP EFFICIENCY DATA (Optional)

Discharge Pressure: _____ psi x 2.31 = _____ ft (1); Dynamic pumping level: _____ ft (2)

Total Head: (1) + (2) = _____ (3) ; Flow rate: _____ cfs (4)

Water HP: (3) x (4) ÷ 8.8 = _____ (5)

Meter Input KW: 3.6 x _____ KH x _____ CTR or _____ MULT x _____ PTR x _____ N/ _____ T = _____ (6)

Meter Input HP: (6) x 1.34 = _____ (7)

Panel Input KW: _____ Ave PF x _____ Ave Volts x _____ Ave Amps x .001732 = _____ (6)

Panel Input HP: (6) x 1.34 = _____ (7) Efficiency: (5)/(7) x 100 = _____ %

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

See 65-07573 Attachment 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:

H. REMARKS AND OVERLAP REVIEW ANALYSIS

Domestic use is for in-house use for 8 homes. SEE Attachment A in 65-07573 for other remarks/conditions.

Recommend waiving measuring device requirement for this ground water system.

Overlap - See 65-07573 Exam.

Proof filed 1990, SPBA claim N/A and not filed.

SEE Exam fee into sheet in 65-07573 as it relates to FUD proof for gail in 65-13013.

Storage tank: $35,500 \text{ gallon} / 325,850 \text{ gallons-A.F.} = .1 \text{ A.F.}; .23 \text{ cfs in } 65-07573$
combined rights stores $.23 \times 1.9835 = .5 \text{ A.F.} / 24 \text{ hr.}$, storage not required.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	.02	4.8
Irrigation	4/15	10/15	.02	6.1
Totals:			.04	10.9

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

J. AUTHENTICATION

Field Examiner's Name

Steve Lester

Signature

Steve Lester

Certification Date

Field Report Preparation Date

2-6-92

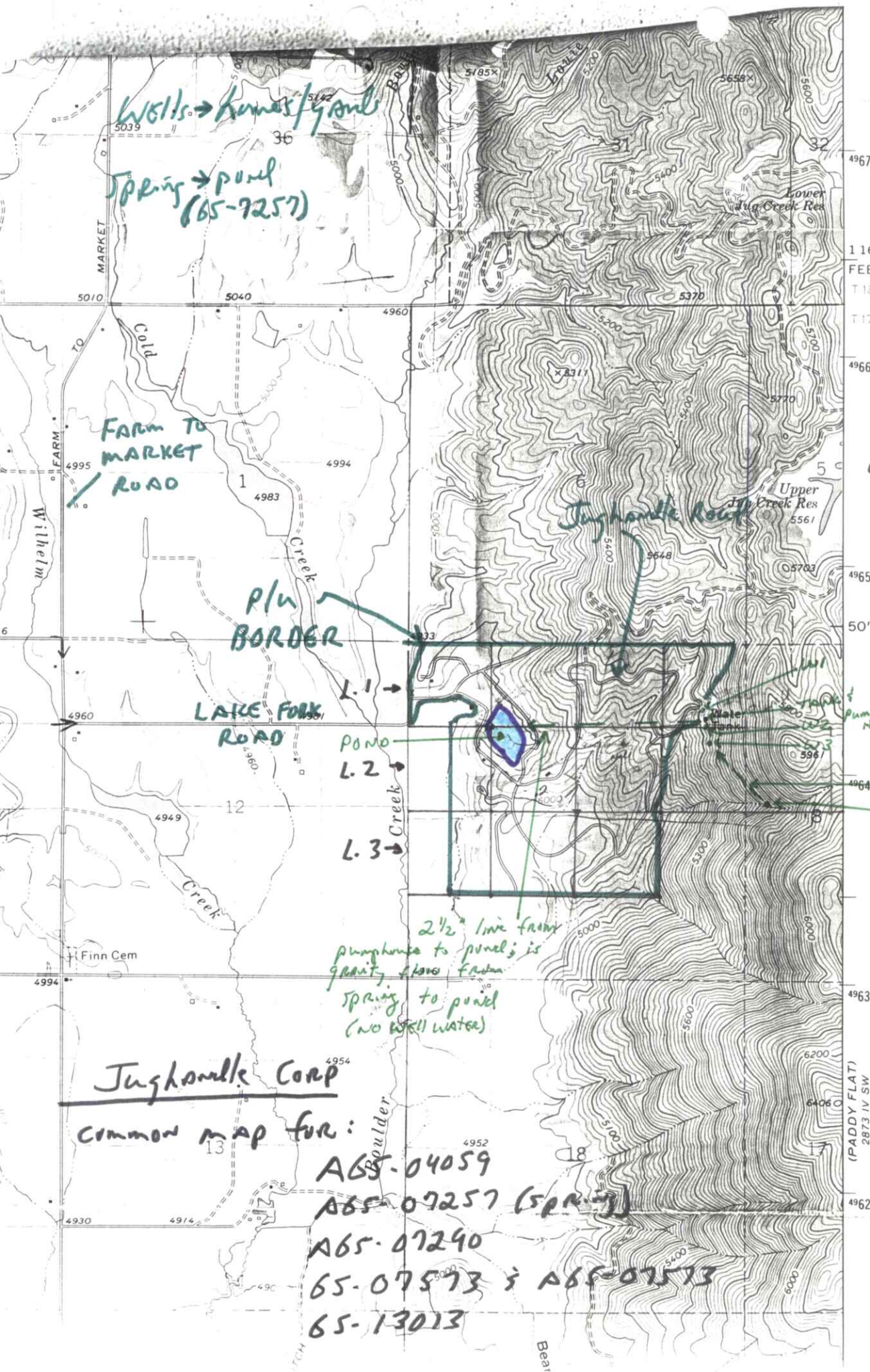
CONSULTANT SEAL

K. Licensing recommendation shall be prepared by an Idaho Department of Water Resources employee on a computer printout attached hereto.

* SEE 11/10/2005 Exam report
65-7573 for final details
& Recommendation

-82

65-07573
65-13013



17N, 4E,
S.7

- NO ortho
Coral

- ASES photo

burial line to
spring
(SWSW 1/4 S8)

Right beside
Road to
SWNE

W1
W2 } 3 wells
W3 } near
storage
tank &
pumphouse

P/u = N 1/2
N 1/2 SW 1/4
NWSE

SL
8/1/91

Jughandle Corp.

1" ≈ 1015'

Jughandle Estates #1 & 2

Jughandle Highlands #1 & 2

3 wells, 1 spring

T17N, R4E, S.7

(spring in S.8 SWSWNW)

82

8/1/91

Jughandle
Estates No. 1

Jughandle
Highlands No. 1

- well # 1 NENE
- storage tank & pump house
- well # 2 NENE
- well # 3 SSE

buried line from
spring to pump house
Spring location
SWSWNW S.8

2 1/2" line
to pond from
pump house (but
is gravity line)

pond

Jughandle
Estates No. 2

P/U
BORDER

Jughandle
Highlands No. 2

COMMON MAP FOR:

A65-04059

A65-07257

A65-07290

65-07593 & A65-07593

65-13013

65-13013 ET AL

T17N

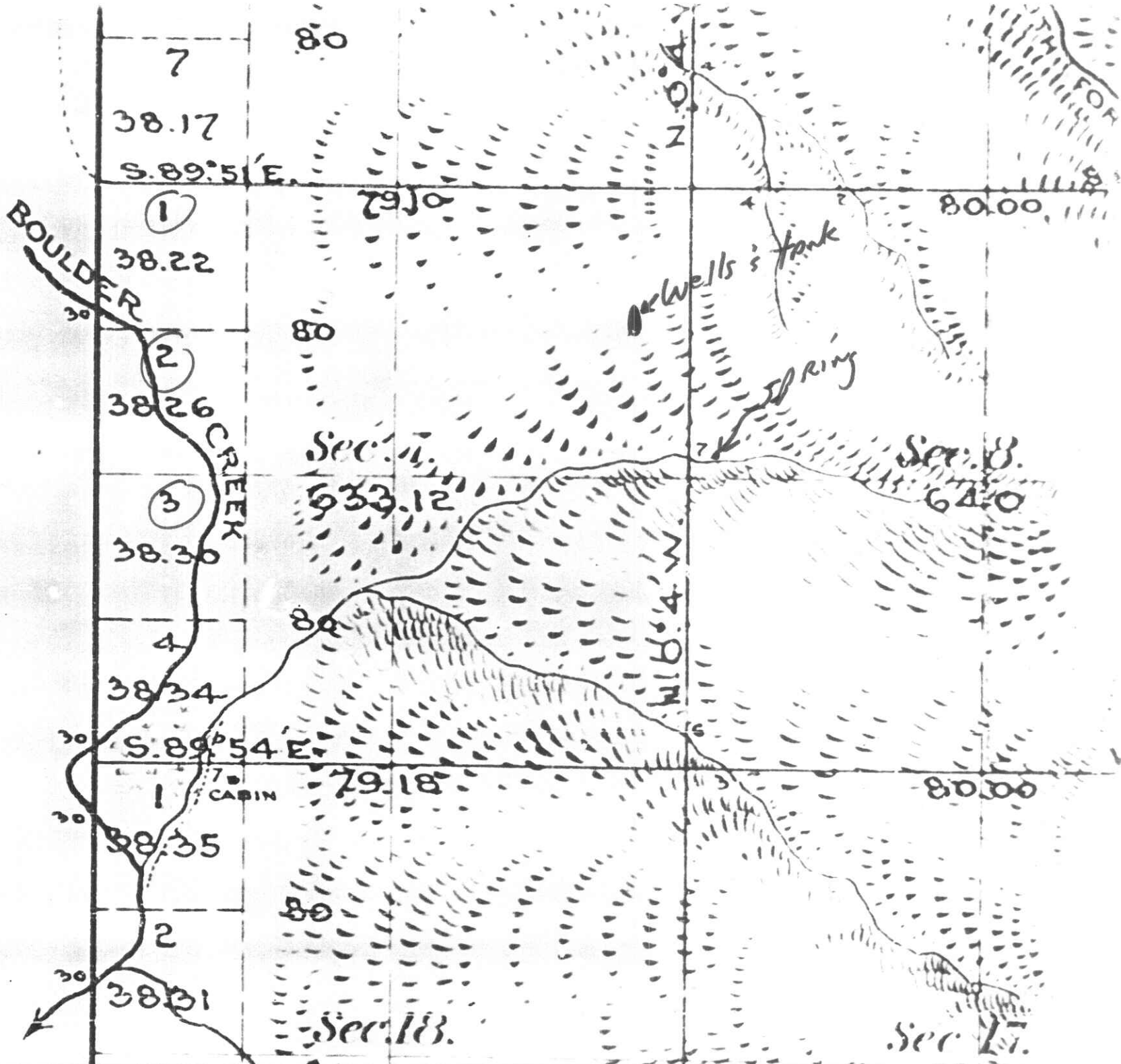
R46

S. 17 Lots 1, 2, 3

h

I

i



MEMORANDUM

TO: FILE
FROM: STEVE LESTER *SL*
DATE: FEBRUARY 6, 1992
SUBJECT: PERMIT 65-07573 EXAM FEE

READ AND EVALUATE AFTER REVIEWING THE FIELD EXAM INFO IN 65-07573 & 65-13013.

An exam fee notice was not sent concerning this 1975 permit according to vault or region files. Somehow this slipped through the cracks. An additional permit, 65-13013, was filed in 1989 for the remainder of the subdivision system. The latter permit fee was \$45, and a proof fee of \$100 was paid for 65-13013 in 1990.

In order to license both permits, which are part of the entire system covered by the permits plus rights 65-04059, 65-07257, and 65-07290, an exam fee for 65-07573 is needed. One way to handle this would be to require a \$50 exam fee for 65-07573 based on the permit amount of .12 cfs. No penalty should result from late payment due to lack of notification.

If the exam fee notice was mailed and acted upon in the mid-1980's, the permit would probably have been examined¹ prior to the 1989 filing of 65-13013. If so, the new permit and proof may have been less expensive (probably would have filed for a permit to cover the remaining 8 homes and yards at $\leq .20$ cfs). Due to the above, I recommend that the exam fee for 65-07573 be considered as paid in the \$100 payment of 65-13013 proof of beneficial use. In the latter case, \$50 remains for the proof fee for 65-13013, which is adequate for the license recommendation.

1. The region conducted many exams in the McCall area between 1986-1989.

EXAM FEE

MEMO

TO: FILES
FROM : STEVE LESTER *SL*
DATE: FEBRUARY 5, 1992
SUBJECT: JUGHANDLE CORPORATION RIGHT NOS. 65-04059, 65-07257, 65-07290, *spring*
65-07573, AND 65-13013

A licensing field exam for permit 65-13013 was conducted on 8/1/91. An additional permit to be licensed, 65-07573, was discovered in this process. Based on the 1985 well logs and the exam information, the subdivision system as of 1985 consisted of three wells used for internal domestic use for 108 units and irrigation (yards) of 25 acres. The four subdivisions have 107 lots, and an additional home and yard located near the wells is also served. The spring in 65-07257 was licensed for 57 domestic units and recreation (pond) use but now just delivers water via gravity flow to the pond.

The perfected rights for domestic use will be redefined in the SRBA to show domestic for internal use and irrigation for external use. The spring will reflect recreation use but not domestic or irrigation uses. This memo outlines the details of redefining the perfected rights and recommending the two permits for licensing.

I. STEP ONE - DETERMINE WELL CAPACITY, TOTAL USES, AND TOTAL REQUIREMENTS

A ground water system for a subdivision can be licensed to include the lots where development is completed plus the lots with stubbed lines. It does not seem reasonable to allow credit for domestic uses but not for irrigation uses in a subdivision context. In this situation, lots with stubbed lines are credited with irrigation use.

Based on pump curve and HP equation information, the wells have a capacity of .23 cfs. This rate can divert 166.5 af during a year ($.23 \times 365 \times 1.9835$). This rate can divert 83.9 af per irrigation season ($.23 \times 184 \times 1.9835$).

Total domestic use is 108 units (55 homes are found but other lots have stubbed lines). By sampling ten lots with irrigated yards, an estimate of 10,000 sq. ft. irrigated per lot was made. Total irrigation is 25 acres ($(108 \times 10,000) / 43,560 = 24.79 = 25$). It should be noted that some lots do not or will not have irrigation while other lots have or may have irrigation exceeding 10,000 square feet. The best approach in this case involves use of average values.

From the domestic chart, 108 units require .45 cfs. Domestic volume required is 64.8 af (compare $V_r = 108 \times .6 = 64.8$ vs. $V_d = 166.5$ from above data). For irrigation, 25 acres require .50 cfs and 75 af ($V_r = 25 \times 3 = 75$ vs. $V_d = 83.9$ from above data). The system is limited to .23 cfs, a rate that can provide full volume for the homes and acres where total volume capacity is 166.5 afa. Domestic plus irrigation volume required equals $64.8 + 75$ or 139.8 af.

Notes 10/20/05 -SL
CAN DISREGARD most of
this attachment

ATTACHMENT A

II. STEP TWO - DETERMINE HOW PERFECTED RIGHTS WILL BE DEFINED IN SRBA

Rights 65-04059 and 65-07290 have three points of diversion as of 1985 (well logs). Use the best fit from the decreed and licensed P/U to match the map and ASCS photo and pro-rate the number of units and acres into these tracts for redefined P/U.

Decreed right 65-04059 includes a well for domestic use at .04 cfs and 1.2 afa. This can be interpreted to mean one unit with internal and external use.

Licensed right 65-07290 covers a well for domestic use for 90 units at .07 cfs and 50.6 afa. The volume should be corrected to show 50.7 where $.07 \times 365 \times 1.9835 = 50.678 = 50.7$ af. It appears that 1.98 instead of 1.9835 was used in the license process ($.07 \times 365 \times 1.98 = 50.589 = 50.6$).

Total perfected rights apply to 91 units with .11 cfs and 51.9 af. These rights should be described as internal use for domestic and external use for irrigation. The 1991 exam data provides a basis for the conversion. Each domestic unit is allocated 10,000 sq. ft. irrigation.

A. A65-04059 - Start with D/1, .04 cfs & 1.2 afa, convert to: 1 unit, allow .04 cfs & .6 afa for internal use. For irrigation: $10,000/43,560 = .2$ acre. Allow .02 cfs (could use .03 cfs but not necessary) for yard. $V_r = .2 \times 3 = .6$ & $V_d = .02 \times 184 \times 1.9835 = 7.3$; allow .6 afa for irrigation.

Conclusion:	D/1	.04 cfs	.6 afa
	Irr.	.02 cfs	.6 afa (.2 acre)
	Total	.04 cfs	1.2 afa

B. A65-07290 - Start with D/90, .07 cfs & 50.6 afa, convert to: 90 units, allow .07 cfs & 50.7 afa for internal use (note the corrected volume previously explained). Domestic $V_r = 90 \times .6 = 54$ & $V_d = 50.7$, allow 50.7 afa. For irrigation, $(90 \times 10,000)/43,560 = 20.7$ acres. Irrigation $V_r = 20.7 \times 3 = 62.1$ & $V_d = .07 \times 184 \times 1.9835 = 25.5$, allow 25.5 afa.

Conclusion:	D/90	.07 cfs	50.7 afa
	Irr.	.07 cfs	25.5 afa (20.7 acres)
	Total	.07 cfs	50.7 afa

When combined, the perfected rights cover the following:

D/91	.11 cfs	51.3 afa
Irr.	.09 cfs	26.1 afa (20.9 acres)

Required for maximum coverage of D/91 and 20.9 acres are the following:

D/91	.40 cfs	54.6 afa (use domestic chart & V_r)
Irr.	.42 cfs	62.7 afa (use .02 cfs & V_r)

Therefore, additional water may be applied to the perfected P/U when comparing the current rate/old data as would be done with a typical irrigation overlap in making license recommendations for permits.

III. STEP THREE - CURRENT RATE/OLD RATE OVERLAP ANALYSIS FOR RECOMMENDING LICENSES

A. In the overlap analysis, determine the total flow for total uses (current rate), perfected flow for perfected uses (old rate), and compare these rates. If current rate exceeds old rate, additional flow is available for the perfected P/U when licensing the new P/U. In such a case, the old P/U may receive: current rate minus old rate multiplied by perfected P/U (in this case, number of units and number of acres). The new P/U may receive current rate times new units and acres. Volumes factors should be included. Conditions will be added to the new licenses to reflect capacity and volume limitations as well as a condition to spread water evenly over the total P/U.

Ideally, permits 65-07573 and 65-13013 should be considered for licensing at the same time instead of recommending the older permit and then treating the recommendation as a license to allow recommendations for the younger permit. In other words, one could determine the amount of water available for the new units and acres and pro-rate this amount between the permits.

However, this approach becomes too cumbersome when trying to apply additional water to the perfected P/U where one permit is limited to 55 units and the other is limited to 100 units. Extremely confusing marginal rates and volumes result, and no clear benefit to this approach is found. Instead, one should make recommendations for the older permit first. Second, the younger permit can be recommended by treating the older permit as a license when reviewing overlap. This approach produces a cleaner and more workable product and still provides maximum water right protection within allowable parameters.

B. Proof of beneficial use for permit 65-07573 was filed in 1980. An exam fee information letter was not mailed for the permit according to the vault or region files. No exam fee was paid. A SRBA claim was filed for 65-07573. Based on the following analysis, a proper exam fee can be paid. No penalty should occur for a late exam fee due to the lack of notification by the department. }

C. 65-07573 is a permit for D/100 with a 1975 priority date. No indication of internal and/or external uses is noted in the file, and both uses should be assumed. The domestic and irrigation distinctions were not used when the permit was originally filed. Since the SRBA process will redefine the old domestic uses as domestic and irrigation, this can be done in the licensing process without the recommendations being viewed as an expansion. The permit implies a volume limit of 120 afa ($100 \times 1.2 = 120$ for internal & external). }

Permit 65-13013 was filed under the new method for D/55 (internal) and 24 acres with a 1989 priority date. How many units and acres will be covered by the permits (in addition to adding water to perfected rights)?

Total units = 108 and total acres = 25.0

Perfected = 91 and acres = 20.9

Remaining = 17 and acres = 4.1

* instead see
2/6/92 memo

IV. STEP FOUR - CALCULATIONS AND RECOMMENDATIONS FOR 65-07573 AND 65-13013

A. Calculations - identify and compare the current and old rates.

Current rate = total flow / total units (entire system)

domestic = .23 cfs / 108 units = .00213 cfs/unit

irrigation = .23 cfs / 25 acs. = .00920 cfs/acre

Old rate = perfected flow / perfected uses as redefined in SRBA

domestic = .11 cfs / 91 units = .00121 cfs/unit

irrigation = .09 cfs / 20.9 acs = .00431 cfs/acre

Current rates are greater than old rates for both uses. Therefore, additional water can be applied to the perfected P/U at current rate minus old rate. Water can be applied to the new P/U at current rate.

B. Recommendations for permit 65-07573 -

1) Rate of flow and volume for perfected P/U - Domestic

(current - old) x units = flow to apply to old D/91

(.00213 - .00121) x 91 = .11 cfs for additional domestic flow.

domestic Vr under permit = total Vr - perfected volume for D/91

where total Vr = 91 x .6 = 54.6 & perfected volume = 51.3

domestic Vr under permit = 54.6 - 51.3 = 3.3

domestic Vd under permit = .11 x 365 x 1.9835 = 79.6 ; allow 3.3 afa.

Result: 51.3 + 3.3 = 54.6 ; total volume required for D/91 is covered.

2) Rate of flow & volume for perfected P/U - Irrigation

(current - old) x acres = flow to apply to acres associated with D/91

where acres = 20.9

(.00920 - .00431) x 20.9 = .10 cfs for additional irrigation flow

irrig. Vr under permit = total Vr - perfected volume

where total Vr = 20.9 x 3 = 62.7 & perfected volume = 26.1

Vr under permit = 62.7 - 26.1 = 36.6

irrig. Vd in permit = .10 x 184 x 1.9835 = 36.5 afa, allow 36.5 afa.

Result: $26.1 + 36.5 = 62.6$ afa for 20.9 acres. These acres still need
 $62.7 - 62.6 = 0.1$ afa.

- 3) Rate of flow & volume for new P/U - Domestic, 9 units (permit D/100 but D/91 already applied to old units; 9 units left in permit).

current rate x new units = flow to apply to new D/9

$$.00213 \times 9 = .02 \text{ cfs for D/9}$$

domestic $V_r = 9 \times .6 = 5.4$ v. domestic $V_d = .02 \times 365 \times 1.9835 = 14.5$,
allow 5.4 afa.

Result: $54.6 + 5.4 = 60$ afa V_r for D/100 covered by old + new rights.

- 4) Rate of flow & volume for new P/U - Irrigation for 9 units

where $\{10,000 \times 9\} / 43,560 = 2.1$ acres

current rate x acres = flow to apply to 2.1 acres

$$.00920 \times 2.1 = .02 \text{ cfs for 2.1 acres}$$

irrig. $V_r = 2.1 \times 3 = 6.3$ v. irrig. $V_d = .02 \times 184 \times 1.9835 = 7.3$,
allow 6.3 afa.

Result: 62.6 afa for 20.9 acres (all but .1 af of V_r) and 6.3 afa for
2.1 acres (all of V_r) covered by old + new rights.

- 5) Total rate & volume for license recommendations -

permit limits of .12 cfs, D/100, and 23 acres ($\frac{\{10,000 \times 100\}}{43,560} = 23$).

recommendations: 65-07573

Domestic	1/1-12/31	.11 cfs	3.3 afa	for 91 old units
Domestic	1/1-12/31	.02 cfs	5.4 afa	for 9 new units
Irrigation	4/15-10/15	.10 cfs	36.5 afa	for 20.9 acres
Irrigation	4/15-10/15	.02 cfs	6.3 afa	for 2.1 acres
Total		.12 cfs	51.5 afa	D/100 & 23 acres

(note that $.12 \times 184 \times 1.9835 = 43.8$ & $.12 \times 365 \times 1.9835 = 86.9$)

conditions:

Add condition to spread water evenly between all homes and between all acres in this right and perfected rights (R38 for irrigation plus language for domestic). This right, when combined with rights 65-04059 and 65-07290, shall not exceed the diversion capacity of .23 cfs and shall not provide more than .02 cfs/acre or 3.0 afa/acre for irrigation. Domestic use is for in-house use for 100 homes.

C. Recommendations for permit 65-13013 - The perfected rights include the above license recommendations plus those summarized in Step Two. Thus far the following coverage exists:

Domestic, 100 units, .23 cfs and 60 afa,

Irrigation, 23 acres, .21 cfs and 68.9 afa.

As in the previous permit, the entire system is analyzed to determine the current and old rates. The current rate does not change. The old rate will change due to the addition of 65-07573.

current rate for domestic = .00213 cfs / unit (see Step Four, part A)

current rate for irrigation = .00920 cfs/acre

old rate for domestic = .23 cfs / 100 units = .0023 cfs/unit

old rate for irrigation = .21 cfs / 23 acres = .0091 cfs/acre

The old rate for domestic exceeds the current rate. Additional water is not available for the old domestic units. The old rate for irrigation is less than the current rate, and additional water is available for irrigation.

1) Rate of flow & volume for perfected P/U - Irrigation

(current - old) x acres = flow to apply to old acres

.00920 - .0091 x 23 = .0023 cfs for additional flow

irrig. Vr under permit = total Vr - perfected volume

where total Vr = 23 x 3 = 69 & perfected volume = 68.9

Vr under permit = 69 - 68.9 = .1

irrig. Vd in permit = .0023 x 184 x 1.9835 = .8 afa, allow .1 afa.

Result: 68.9 + .1 = 69 afa for 23 acres; total Vr is met.

2) rate of flow & volume for new P/U - domestic, 8 units (permit D/55 but no additional water for perfected P/U, apply domestic water to remaining units, 108-100 = 8).

current rate x new units = flow to apply to new D/8

.00213 x 8 = .02 cfs for D/8

domestic Vr = 8 x .6 = 4.8 v. domestic Vd = .02 x 365 x 1.9835 = 14.5, allow 4.8 afa.

Result: 60 + 4.8 = 64.8 afa Vr for D/108 covered by old + new rights.

3) Rate of flow & volume for new P/U - Irrigation for 8 units where {10,000 x 8} / 43,560 = 1.8 acres. However, the initial estimate of 25 total acres minus the perfected 23 acres equals 2 remaining acres. Use 2 acres instead of 1.8 to be consistent with initial data (minor differences occur when calculating acres using different # of units @ 10,000 sq. ft./unit).

current rate x new acres = flow to apply to 2 acres

.00920 x 2 = .02 cfs for 2 acres

irrig. Vr = 2 x 3 = 6 v. Vd = .02 x 184 x 1.9835 = 7.3, allow 6 afa.

Result: 68.9 + 6 = 74.9 afa for 25 acres (almost the entire 75 afa Vr) under old + new rights. Note that 65-13013 is limited to 24 acres and is recommended for added water for 23 old acres and water for 2 new acres but not to exceed 24 acres.

4) Total rate and volume for license recommendations -

permit limit of .35 cfs, D/55, plus .44 cfs for 24 acres.

recommendations: 65-13013

Domestic	1/1-12/31	.02 cfs	4.8 afa	for 8 new units
Irrigation	4/15-10/15	.0023 cfs	0.1 afa	for 23 acres
Irrigation	4/15-10/15	.02 cfs	6.0 afa	for 2 acres
Total		.04 cfs	10.9 afa	D/8 & 24 acres

(note that .04x184x1.9835 = 14.6 & .04x365x1.9835 = 29)

conditions:

Add conditions to spread water evenly between all homes and between all acres in this right and perfected rights (R38 for irrigation plus language for domestic). This right, when combined with rights 65-04059, 65-07290, and 65-07573, shall not exceed the diversion capacity of .23 cfs and shall not provide more than .02 cfs/acre or 3.0 afa/acre for irrigation. This right is limited to 24 acres within an irrigation season. Domestic use is for in-house use for 8 homes.

V. STEP FIVE - SUMMARIZE RIGHTS USING 3 WELLS

For A65-04049 and A65-07290:	D/91	.11 cfs	51.3 afa
	I/20.9	.09	26.1
	~~20.9~~	~~.09~~	~~26.1~~
License recommendation 65-07573 ³ :	D/100	.12	8.7
	I/23	.12	42.8
	TOTAL	.12	51.5
License recommendation 65-13013:	D/8	.02	4.8
	I/24	.02	6.1
	TOTAL	.04	10.9
Total for D/108 and Irrig. 25 ac:		.23	139.8

Combined for all rights:	D/108	.23	64.8
	I/25	.23	75.0
TOTAL:		.23	139.8

Note that Vr for D/108 is 108 x .6 or 64.8 afa. Vr for 25 acres is 25 x 3 or 75 afa. Total volume for both uses is met. The diversion rate of .23 cfs can produce the necessary volume (see Step One).

VI. STEP SIX - DETERMINE P/U FOR EACH RIGHT

Now that all of the units and acres are shown by water right, the P/U for each right must be defined.

A. A65-04059 - P/U is unchanged from decree. D/1 and .2 acre are within NWNW in Bl. 1, Jughandle Estates No. 1.

B. A65-07290 - P/U is more complex. The original P/U in the license was in the NW 1/4 and N 1/2 of SW 1/4. Based on the subdivision plats, only 55 units and therefore 12.7 acres are found in the licensed tracts. Current information is more complete than the licensing data used to perfect this right. The P/U should be clarified via the subdivision plats by listing the units and acres found within the licensed tracts and placing the remaining units and acres for the right in adjacent tracts. This is a clarification rather than a change requiring additional information in the SRBA. Refer to Attachment B (land list and worksheet) and Attachment C (subdivision plats) for the redefined P/U.

P/U is all of Jughandle Estates No. 1 (except that portion in A65-04059) and Jughandle Estates No. 2, and portions of Jughandle Highlands Nos. 1 and 2.

C. 65-07573 - The P/U equals A plus B above plus 9 new units in the NENE and 2.1 additional acres in NENE and NWSE. Attachment B explains the procedure. P/U is within the same subdivisions described above in A and B plus 1 home and .2 acre just west of the wells and storage tank site but outside of the subdivisions.

D. 65-13012 - The irrigation P/U includes all of the above irrigation plus 2 additional acres in the E 1/2 NE 1/4 (not to exceed 24 acres). The domestic P/U covers 8 new units in the SENE. Attachment B explains the procedure. Irrigation P/U is in all four subdivisions. Domestic P/U is within portions of Jughandle Highlands Nos. 1 and 2.

Some discrepancies are unavoidable when trying to integrate quarter-quarters, subdivision lines, number of units, and acres irrigated for these rights. The comments for P/U related to subdivisions are therefore somewhat vague, e.g. lot and block numbers are not specified.

VII. STEP SEVEN - DETERMINE HOW 65-07257 WILL BE DEFINED IN SRBA

The spring licensed for domestic use (57 units) and recreation use (14 af pond) no longer supplies domestic/irrigation water to the units. Instead, the spring is used for the pond via a gravity system. According to the field exam dated 7/16/79, a professional engineer's report measured .30 cfs from the spring. Water leaves the springbox through a 6" pipe that leads to the

only for pond c 1991 - not domestic

pumphouse near the three wells and storage tank. The line reduces to a 2.5" pipe from the pumphouse to the pond (still gravity flow). The spring water is not tied into the domestic/irrigation well water.

For A65-07257, refer to the maps in field exam file 65-07573 for the P/D and P/U locations. Note that P/U is Lot 12, Block 3, Jughandle Estates No. 1 and falls within all four parts of the NW 1/4. Redescribe the license as follows:

.30 cfs diversion to storage 1/1-12/31
14 afa recreation storage 1/1-12/31
.30 cfs and 14 afa total.

This memo is filed with the field exam report for 65-07573. A copy was provided to Linda Werner for the SRBA claims filed by Jughandle Corporation. Rights 65-04059, 65-07257, and 65-07290 will be redefined in the adjudication process. License recommendations for permits 65-07573 and 65-13013 are based on the redefined rights for the SRBA.

Summary from 2 pg. worksheet

LAND LIST ATTACHMENT

Description and location of place of use:

TWP.	RANGE	SEC.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				TOTALS
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
17N	4E	7					.2												0.2
							D												
							LOT												
							1												
17N	4E	7	2.5	2.8			2.8	2.3	1.2	3.4	2.1	.9			2.7				20.7
			D	D			D	D	D	D	D	D			D				
							LOT	LOT			LOT								
							1	2			3								
17N	4E	7	2.0	2.5	2.8		2.8	2.5	1.2	3.4	2.1	.9			2.8				23.0
			D	D	D		D	D	D	D	D	D			D				
							LOT	LOT			LOT								
							1	2			3								
17N	4E	7	2.1	2.5	2.8	1.9	2.8	2.5	1.2	3.4	2.1	.9			2.8				24.0 *
							D	LOT	LOT		LOT								
								1	2		3								

* 25 acres shown in tracts but limited to 24 acres in a season.

Total number of acres irrigated **25**

total domestics = 108

ATTACHMENT B

A65-04059

D = 1
ACRES = .2

A65-07290

D = 90
ACRES = 20.7

65-07573

D = 100
ACRES = 23
(2.1 new ac.)
(9 new units)

65-13013

D = 8
ACRES = 24
(2 new ac.)
(8 new units)

WORKSHEET

SL 2/5/92

Subdivision Plots to assign # domestics
and # acres to Q&Q by Right - PG. 1 of 2

<u>RIGHT</u>	<u>Q&Q</u>	<u># units</u>	<u># acres</u>	$\frac{10,000}{47,560} \times \# \text{ units} = \text{ACRES}$
65-04059 0/1 + .2 AC	NWNW	1	.2	
65-07290 0/90 + 20.7 AC	NENW	12	2.8	
	NWNW	11-1 from 04059 = (10)	2.3	
	SWNW	5	1.2	
	SEW	15	3.4	
	NESW	9	2.1	
	NWSW	4	.9	
		<u>55</u>	<u>12.7</u>	

↑
Some differences
due to rounding
may occur
↓

SINCE LICENSE = 0/90 AND 20.7 ACRES, REMAINING ARE

$$90 - 55 = 35$$

$$20.9 - 12.7 = 8$$

Apply to lands east of licensed pln (clarification of license rather
than a change of practices - no add'l. info needed to justify
this in SRBA) :

NWNE	11	2.5	
SWNE	12	2.8	
NWSE	<u>12</u>	<u>2.8</u>	
	35	8.1	
TOTAL	55	12.7	
	<u>35</u>	<u>8.0</u>	
	90	20.7	

so let = 2.7 for NWSE
reduce by .1 acre

65-07573

NWSE	-	.1	from above adjustment 65-07290
NENE	9	2.0	(9 homes → 2.1 acres but .1 already from above; carry .1 from 2.1 to next right, 65-13013)
TOTAL NEW	9	2.1	

All of
above *
plus :

0/9 AND
2.1 acres (new ones)

* Domestic + irrigated

- continued next
page -

Pg 2 - Sued. plot, units, acres Worksheet
of
2

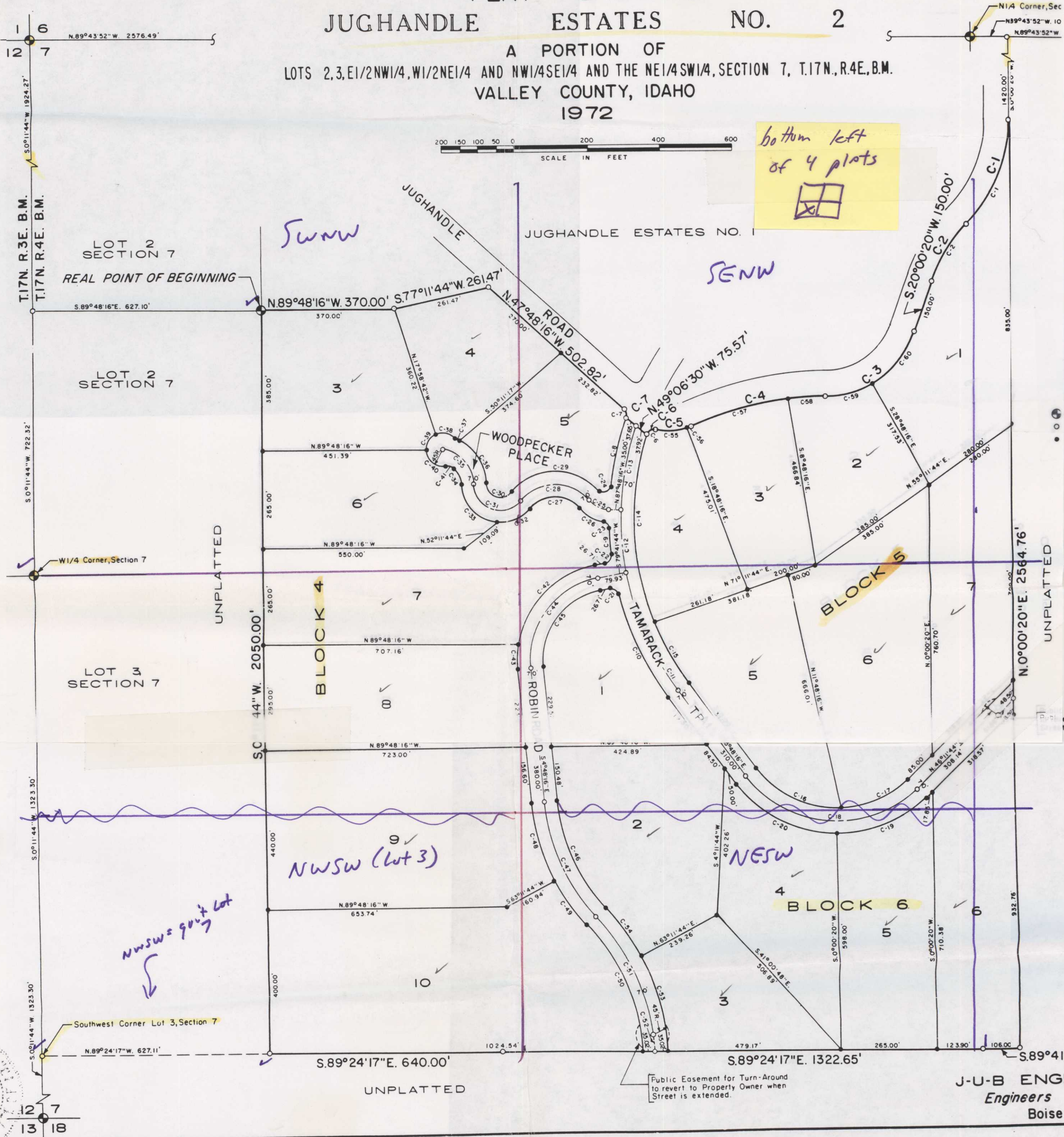
<u>RIGHT</u>	<u>QX</u>	<u># units</u>	<u># acres</u>
65-13013	Irrigation - all of the above acres plus:		
D/8 and 2 new acres	NENE	—	.1 from above adjustment in 65-07573
	SENE	8	1.9
	<u>TOTAL NEW</u>	8	2.0

Total acres old + New = 24 (permit limit). Can irrigate any
 combo of acres up to 24 acres within a given
 season. This limitation does not limit the volume
 since only 6.1 cfs for irrigation is recommended
 in this right. This occurred prior to 1987
 SRBA commencement. New Admin. memo is in
 process to allow this permissible p/u is
 missing (should be available by April 1992).

PLAT SHOWING JUGHANDLE ESTATES NO. 2 A PORTION OF LOTS 2,3,E1/2NW1/4,W1/2NE1/4 AND NW1/4SE1/4 AND THE NE1/4SW1/4, SECTION 7, T.17N.,R.4E.,B.M. VALLEY COUNTY, IDAHO 1972

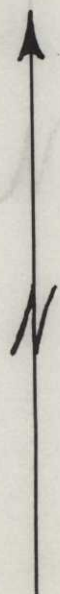
ATA

CH. L.	CH. BEARING
307.18	S.22°00'20"W
176.72	S.32°00'20"W
298.97	S.55°06'02"W
381.62	S.78°05'31"W
98.96	S.85°46'07"W
27.75	S.61°37'33"W
22.24	N.14°01'40"W
191.82	S.13°08'28"W
75.57	S.4°00'39"E
315.27	S.24°54'07"E
352.42	S.23°03'16"E
173.85	S.4°03'16"E
230.23	S.10°29'07"W
517.68	S.2°06'57"E
184.35	S.28°52'10"E
254.76	S.62°51'52"E
209.24	N.68°08'08"E
475.47	S.84°48'16"E
270.22	N.68°54'13"E
310.06	S.62°05'48"E
2736	S.57°09'07"E
2736	S.36°32'35"W
2525	S.40°33'39"E
3660	S.72°43'53"W
61.01	N.63°48'16"W
75.07	S.59°45'25"E
137.89	S.89°48'16"E
191.51	N.89°48'16"W
242.85	S.89°33'46"W
7443	N.71°18'16"W
139.56	N.71°18'16"W
107.78	N.69°31'46"E
138.95	S.41°58'14"E
51.16	S.25°58'40"E
123.51	N.40°56'28"W
135.57	N.32°56'39"W
8.69	N.50°32'35"W
51.61	N.72°59'25"W
52.79	S.38°06'31"W
68.68	S.49°32'38"E
16.95	S.74°13'02"E
299.31	S.45°18'44"W
72.54	S.3°03'44"W
309.29	S.37°26'44"W
262.22	S.37°26'44"W
320.48	S.23°18'16"E
342.69	S.23°18'16"E
219.43	S.15°48'16"E
150.11	S.34°18'16"E



ATTACHMENT C

J-U-B ENGINEERS, INC.
Engineers Planners
Boise Idaho



STRUCTURE ON CONTOUR MAP
LOWER AQUIFER (HOT)
Contour Interval = 10 ft.
Scale 1" = 400'

Peer Well #4
Sur. El. = 2386.0
Strata El. = 1831.0

Strike S 70° E

Dip 150 ft./mi. South

Givens Well
Sur. El. = 2401.0
Strata El. = 1751.0

Ohm Well
Sur. El. = 2466.0
Strata El. = 1695.0

Foster Well
Sur. El. = 2427.5
Strata El. = 1702.0

Givens Well (new)
Sur. El. = 2447.0
Strata El. = 1707.0

DEC - 8 2003
SCANNED

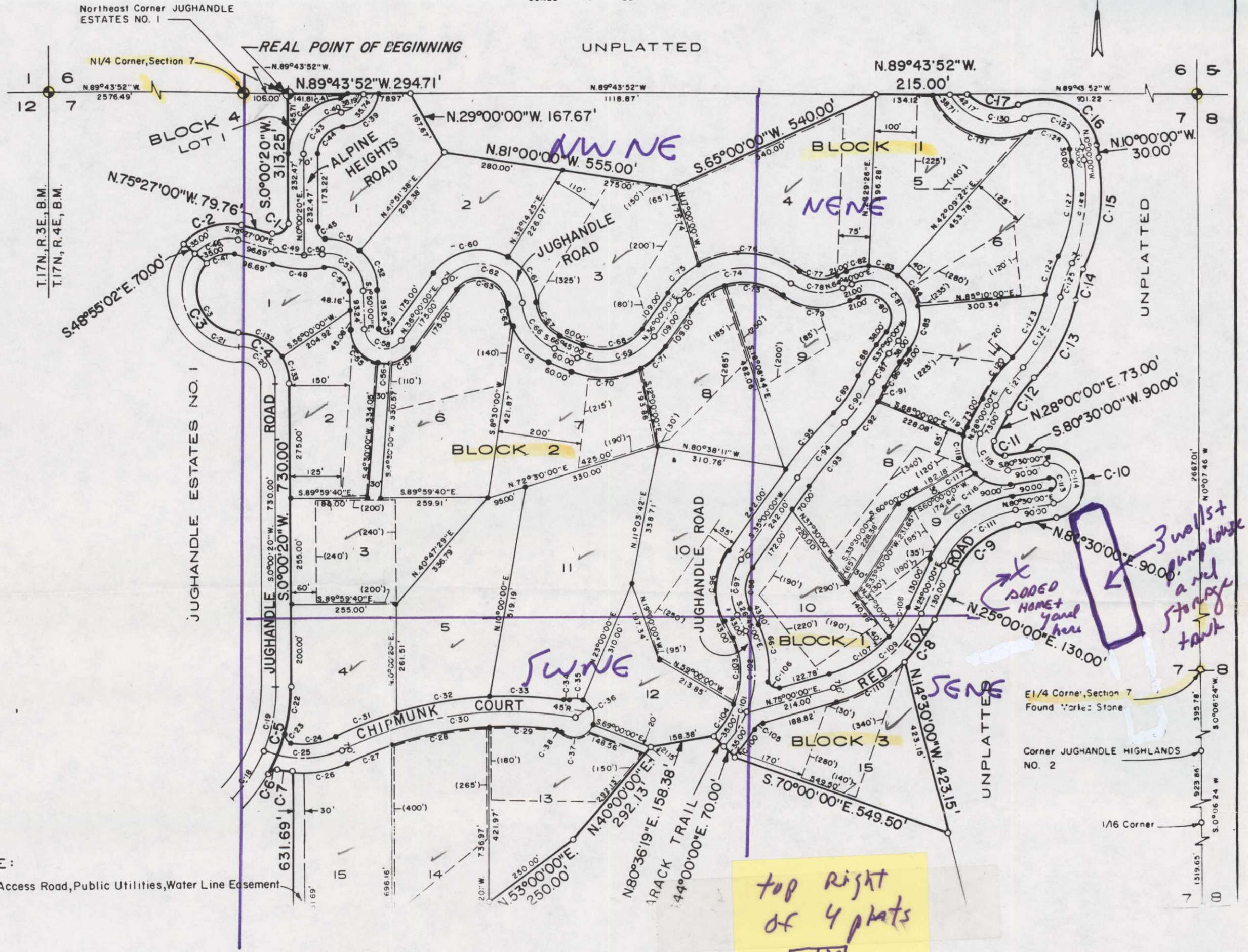
PLATE 1

Jughandle
Highlands No. 1
Plot # 4-45

5.15'	83.46'	S.67°40'36"E.
2.33'	90.18'	S.26°40'19"E.
1.59'	89.49'	S.16°30'00"W.
1.22'	71.05'	S.30°55'00"W.
9.67'	79.48'	S.30°55'00"W.
8.12'	87.91'	S.30°55'00"W.
5.29'	104.66'	S.34°51'00"W.
1.54'	117.84'	S.34°51'00"W.
7.01'	36.99'	S.27°02'48"W.
4.79'	94.90'	S.37°53'47"W.
9.01'	168.76'	S.40°21'00"W.
5.55'	175.29'	S.40°21'00"W.
2.08'	181.82'	S.40°21'00"W.
8.91'	170.37'	S.4°07'30"W.
1.18'	134.45'	S.4°07'30"W.
3.46'	98.53'	S.4°07'30"W.
8.46'	146.73'	S.11°33'36"E.
16.38'	86.04'	N.37°09'44"E.
16.35'	97.89'	S.34°30'00"W.
2.73'	206.11'	S.1°52'30"E.
7.42'	172.19'	S.2°32'50"E.
19.23'	88.96'	S.33°49'40"W.
6.29'	15.85'	N.51°39'44"E.
17.92'	32.49'	S.50°41'06"E.
34.42'	181.43'	N.57°05'28"E.
7.02'	72.83'	N.32°05'28"E.
37.98'	278.93'	N.50°00'00"E.
31.11'	188.94'	N.60°00'00"E.
20.85'	212.32'	N.52°45'00"E.
14.76'	244.91'	N.52°45'00"E.
17.12'	30.00'	N.9°30'00"W.
17.08'	100.00'	N.9°30'00"W.
33.52'	107.62'	N.35°45'00"W.
21.68'	96.89'	N.68°50'20"W.
30.13'	30.00'	N.29°05'32"W.
39.65'	68.10'	N.0°59'49"E.
9.95'	9.94'	N.25°00'00"E.
20.17'	119.73'	N.36°30'00"E.
09.78'	109.38'	N.36°30'00"E.
94.05'	191.21'	N.28°00'00"E.
73.28'	170.75'	N.28°00'00"E.
96.60'	96.33'	N.18°30'00"E.
87.44'	87.19'	N.18°30'00"E.
51.33'	247.21'	N.8°00'00"E.
29.34'	225.58'	N.8°00'00"E.
19.12'	103.14'	N.62°30'00"W.
93.26'	158.67'	N.62°30'00"W.
05.45'	186.40'	N.71°09'05"W.
76.96'	247.59'	N.66°32'22"W.
18.32'	113.59'	S.62°14'50"E.
71.22'	70.18'	S.16°59'50"E.

The Construction
activities. Lots
stricted As To
3 5' From Lot

NOTE:
30' Access Road, Public Utilities, Water Line Easement



top right
of 4 plats

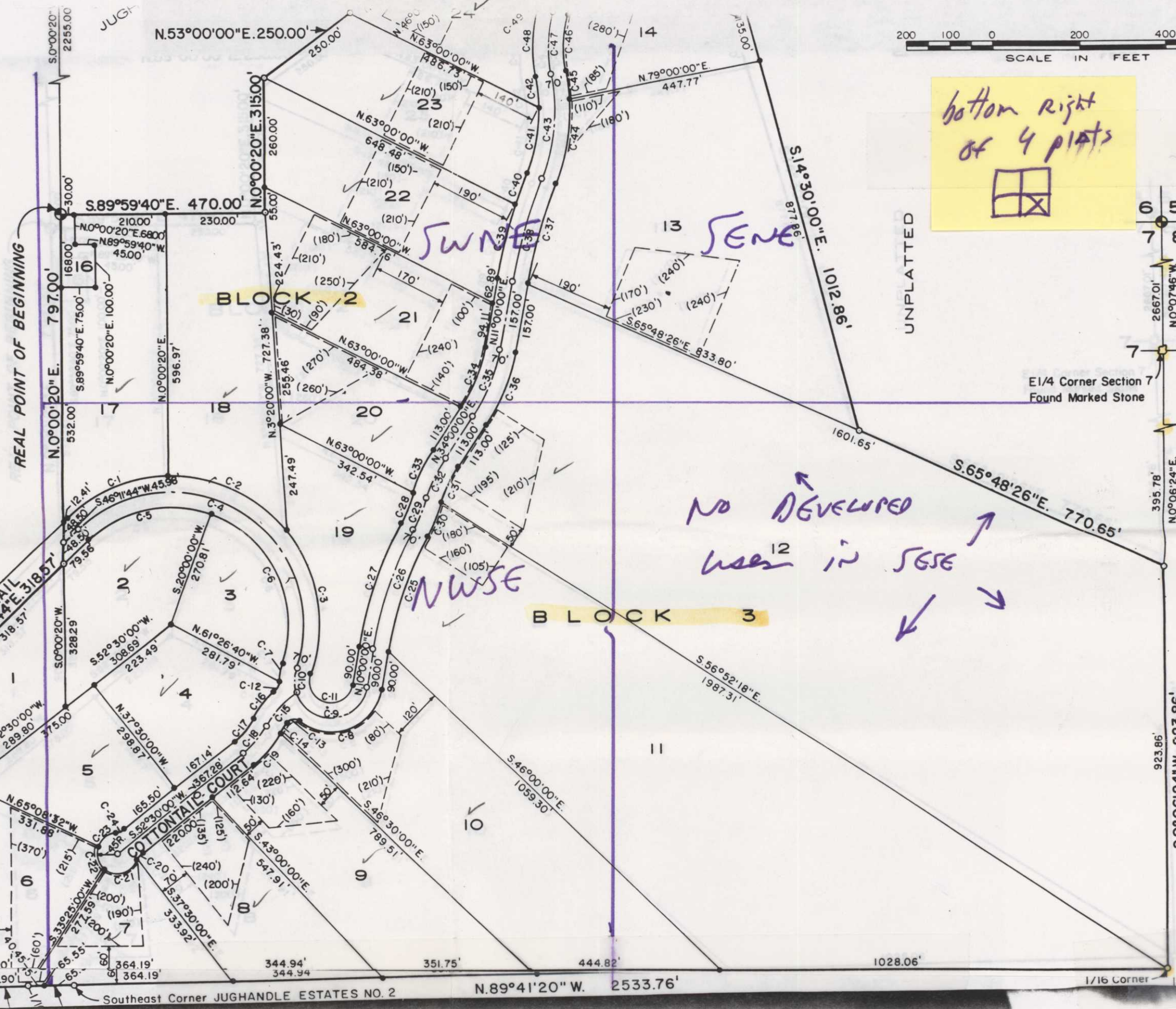
97.04	S.75°02'17"E
1709	S.24°20'41"W
2817	N.84°44'07"E
3390	N.34°59'12"E
10738	S.43°30'00"W
9038	S.39°49'07"W
6880	S.41°15'00"W
8246	S.41°15'00"W
9611	N.41°15'00"E
1109	N.36°23'52"E
7049	N.71°51'23"E
5871	S.15°51'46"E
4490	S.54°46'52"W
1109	S.68°36'08"W
28158	N.19°00'00"E
29253	N.19°00'00"E
30348	N.19°00'00"E
7454	N.23°30'00"E
8003	N.23°30'00"E
8552	N.23°30'00"E
9006	N.26°30'00"E
9920	N.26°30'00"E
10834	N.26°30'00"E
15272	N.22°30'00"E
16667	N.22°30'00"E
18063	N.22°30'00"E
23866	N.16°30'00"E
24537	N.16°30'00"E
17516	N.14°49'08"E
7716	N.20°19'08"E
15423	N.10°44'31"E
6874	N.5°30'29"W
24065	N.5°45'00"E
19679	N.3°47'01"E
6542	N.6°27'59"W
13116	N.1°55'00"E
14621	N.1°55'00"E
15126	N.1°55'00"E
3656	N.33°20'00"W
8871	N.33°20'00"W
14046	N.33°20'00"W
4117	N.17°30'00"W
10381	N.17°30'00"W
16646	N.17°30'00"W

Line
oned.
Shall Contain
itary Sewage
ies. Lots Having
re Unrestricted
For Field Drains
Where Not

SW Corner LC
Section 7

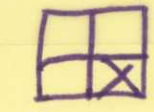
T.17N,R.3E,B.M.
T.17N,R.4E,B.M.

JUGHANDLE ESTATES NO. 2



200 100 0 200 400 600
SCALE IN FEET

bottom right
of 4 plats



E1/4 Corner Section 7
Found Marked Stone

UNPLATTED



65-07573 ET AL

JL

SUMMARY OF PUMP CURVE & HP EQUATIONS

	<u>WELL 1</u>	<u>WELL 2</u>	<u>WELL 3</u>
efficiency	.7	.7	.7
HP	7.5	1.5	1.0
PSI (Assume)	20	20	20
Z	80	180	140
static (logs)	71	171	UNKNOWN, WELL ±40' ± WELL 2
Q	$\frac{(8.8)(HP)(EFF.)}{(2.31)(PSI) + Z}$		
	W2 265' deep W3 225' deep 40' difference Assume W3 Z = 180 - 40		
Q =	.39 cfs*	.04 cfs	.03 cfs
Pump CURVE	MAX = .16 cfs	N/A	N/A
RECOMMENDED CAPACITY	.16 cfs**	.04 cfs	.03 cfs

* too high?

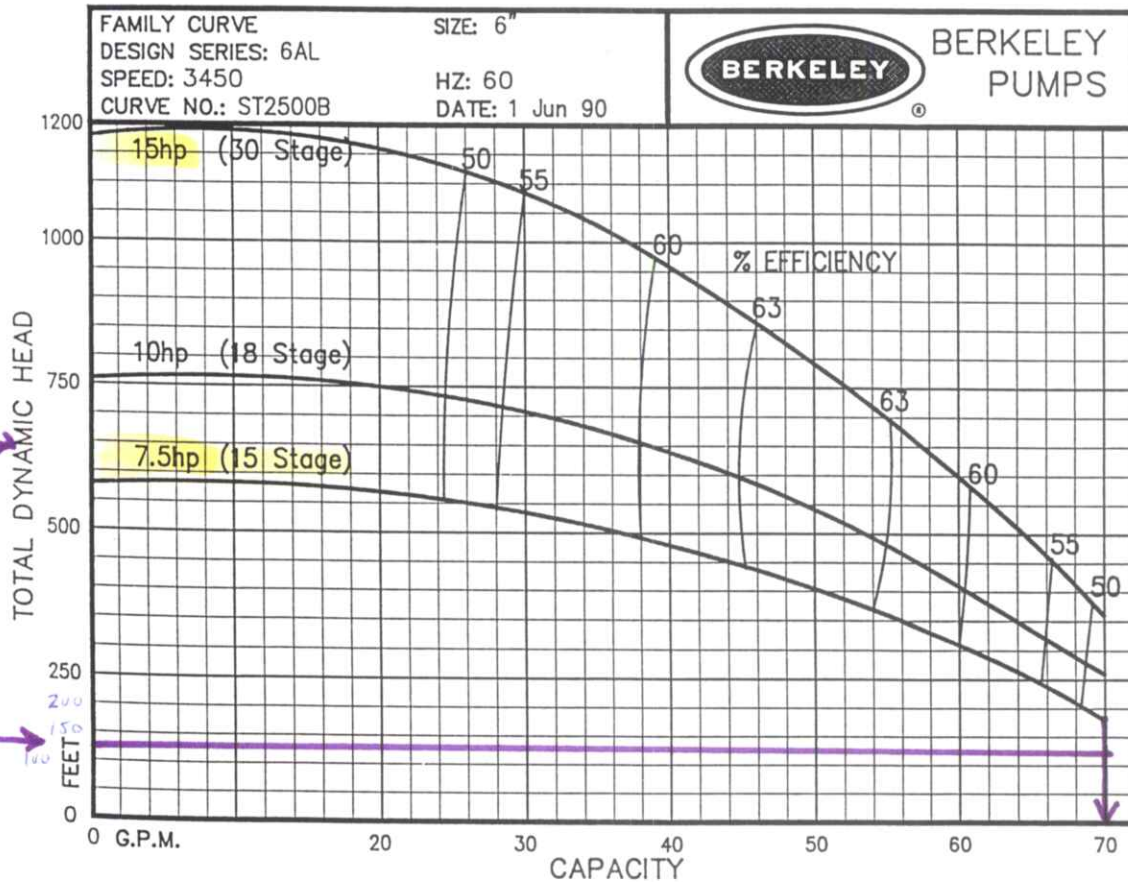
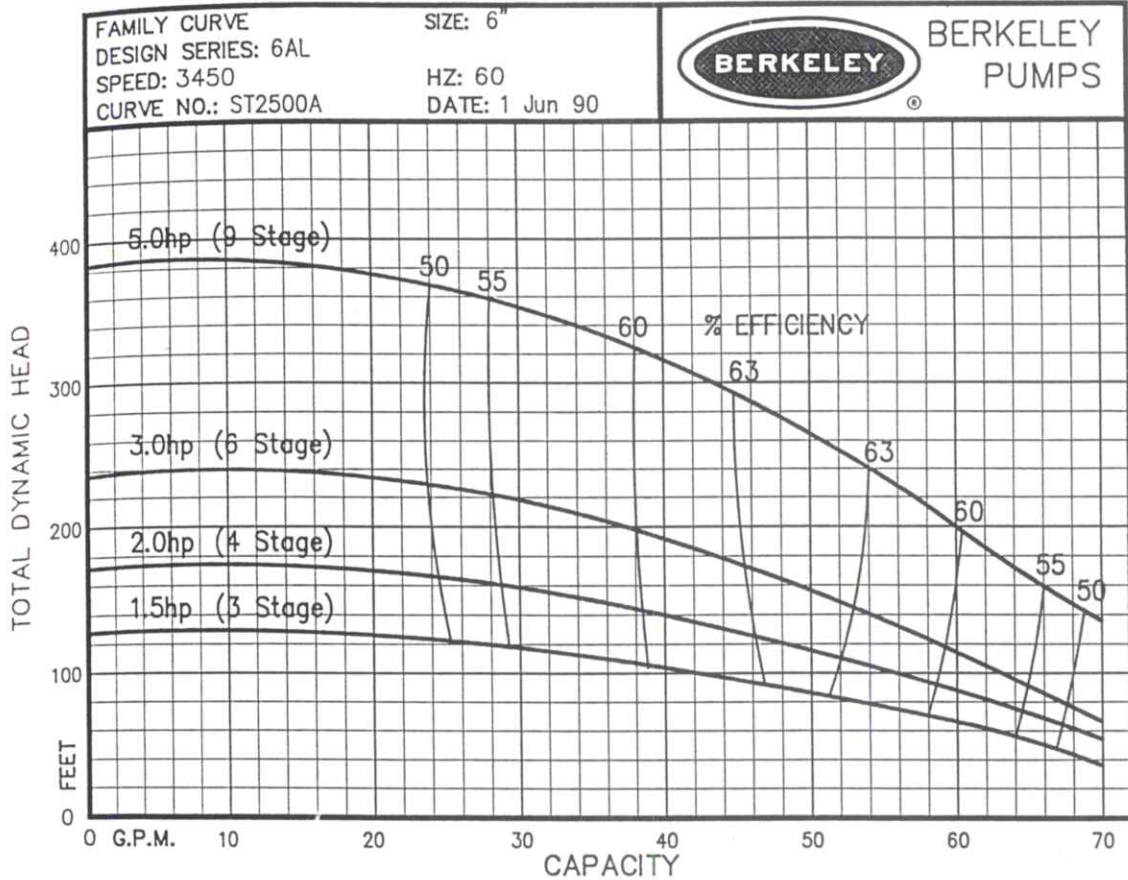
** more in line with
Q at well log -
more reasonable?

TOTAL SYSTEM CAPACITY = .23 cfs

ATTACHMENT D

6AL Performance Curve

65-07573 et al



MAX output = 70 gpm

BERKELEY PUMPS 6A SERIES

6" SUBMERSIBLE TURBINE PUMP ENDS Dimensions & Weights

65-07573
et al

6AL			
MODEL	STAGE	LENGTH (IN.)	WEIGHT (LBS.)
6AL3	3	27.2	55
6AL4	4	29.4	57
6AL6	6	33.7	62
6AL9	9	43.1	71
6AL15	15	56.2	90
6AL18	18	65.5	96
6AL30	30	96.1	149

6AM			
MODEL	STAGE	LENGTH (IN.)	WEIGHT (LBS.)
6AM2	2	25.0	53
6AM3	3	27.2	55
6AM5	5	31.6	59
6AM7	7	34.3	65
6AM10	10	43.6	80
6AM15	15	54.6	90
6AM20	20	72.6	129
6AM25	25	83.6	139
6AM30	30	94.5	149

6AH			
MODEL	STAGE	LENGTH (IN.)	WEIGHT (LBS.)
6AH1	1	22.8	51
6AH2	2	25.0	53
6AH3	3	27.2	55
6AH5	5	29.9	59
6AH6	6	32.1	62
6AH9	9	41.4	71
6AH12	12	48.0	84
6AH15	15	54.6	90
6AH18	18	63.9	96

LOT AND ACRE.

65-07573
ET AL

<u>Estate</u>	<u>Block</u>	<u>Lots</u>	
Jaghnalle #1	1	1-9	= 9
	2	1-14	= 14
	3	1-11	= 11
	(L. 12 = Pond site)		
	4	1-2	= 2
Jaghnalle #2	4	3-10	= 8
	5	1-7	= 7
	6	1-6	= 6
Jaghnalle Highlands #1	1	1-10	= 10
	2	1-15	= 15
	3	15	= 1
	4	1	= 1

Additional o/l of yard just west of wells & east of Red Fox Rd = (1) unit

Jaghnalle Highlands #2	2	16-24	= 9
	3	1-14	= 14

TOTAL LOTS = 108 *

(includes additional o/l listed above)

108 units/lots @ 10,000 ft² irrig per:

$$(108)(10,000) = 1,080,000 \text{ ft}^2$$

$$\frac{1,080,000 \text{ ft}^2}{43560 \text{ ft}^2/\text{ac}} = 24.8 \approx 25$$

acres irrigated

* 7/16/79 Exam 65-07257

lists 107 lots; add 1 lot outside of subdiv. = 108 lots now

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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.

1. WELL OWNER Name <u>Jughandle Estates</u> Address <u>Box 1372 McCALL, ID.</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>71</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>52</u> °F. Quality <u>Good</u> Describe artesian or temperature zones below																													
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____ Discharge G.P.M. <u>75</u> Pumping Level <u>555</u> Hours Pumped <u>4</u>																													
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>12</td><td>0</td><td>109</td><td>Decomposed Granite</td><td></td><td>X</td></tr><tr><td>8</td><td>109</td><td>555</td><td>HARD BLUE GRAY GRANITE</td><td></td><td>X</td></tr><tr><td></td><td></td><td></td><td>WATER 335-375-535-542</td><td></td><td></td></tr></tbody></table>		Bore Diam.	Depth		Material	Water		From	To	Yes	No	12	0	109	Decomposed Granite		X	8	109	555	HARD BLUE GRAY GRANITE		X				WATER 335-375-535-542		
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N																															
W		7	X	E																											
S																															
11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>WESTKINTYARK Well Drilling</u> Firm No. <u>408</u> Address <u>HC 38 Box 10 Donnell</u> Date <u>9-6-85</u> Signed by (Firm Official) <u>Rubio L. L. L.</u> and (Operator) <u>Rubio L. L. L.</u> <u>WELL #</u>																															

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

65-87573 et al.

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.

65-13013
well #2

1. WELL OWNER Name <u>Jughandle Estates</u> Address <u>PO Box 1372 McCall, Idaho 83638</u> Owner's Permit No. _____	2. WATER LEVEL Static water level <u>171</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>48</u> of. Quality <u>good</u> Describe artesian or temperature zones below																																
3. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	4. WELL TEST DATA ☒ Pump ☐ Bailor ☐ Air ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td style="text-align: center;"><u>10</u></td> <td style="text-align: center;"><u>220</u></td> <td style="text-align: center;"><u>22</u></td> </tr> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	<u>10</u>	<u>220</u>	<u>22</u>																										
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USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

65-07573 et al
Well #2

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.

65-13013
Well #3

1. WELL OWNER Name <u>Jughandle Estates</u> Address <u>Box 1372 McCall, Id.</u> Owner's Permit No. _____	7. WATER LEVEL Static water level _____ feet below land surface. Flowing? ☐ Yes ☒ No G.F.M. flow _____ Artesian closed in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																
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11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>GOSTIN & YANKEE</u> Firm No. <u>408</u> Address <u>HC 38 Box 10</u> Date <u>8-20-85</u> Signed by (Firm Official) <u>Robert W. Stutman</u> and (Operator) <u>Robert W. Stutman</u>																																	

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

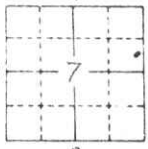
RTMENT
65-07573
Well # 3

USE TYPEWRITER OR
BALLPOINT PEN

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.

[illegible]

STATE OF ID. 10
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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.

1. WELL OWNER Name <u>Jughandke ESTATES</u> Address <u>Route 1 Box 139 McCall, Idaho</u> Owner's Permit No. _____		7. WATER LEVEL Static water level <u>85</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature <u>48</u> °F. Quality <u>good</u>																																			
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____		8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ Air ☐ Other _____ Discharge G.P.M. <u>25</u> Pumping Level <u>210</u> Hours Pumped <u>5</u>																																			
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☒ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type) _____		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 colspan="2">Water</th></tr><tr><th>From</th><th>To</th><th>Yes</th><th>No</th></tr></thead><tbody><tr><td>10</td><td>0</td><td>5</td><td>TOP SOIL</td><td></td><td>X</td></tr><tr><td>10</td><td>5</td><td>20</td><td>Decomposed GRANITE</td><td></td><td>X</td></tr><tr><td>8</td><td>20</td><td>218</td><td>Decomposed GRANITE</td><td>X</td><td></td></tr><tr><td>6</td><td>218</td><td>405</td><td>HARD GRAY GRANITE</td><td></td><td>X</td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	10	0	5	TOP SOIL		X	10	5	20	Decomposed GRANITE		X	8	20	218	Decomposed GRANITE	X		6	218	405	HARD GRAY GRANITE		X
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4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		Test well for 65-07573 et al RECEIVED Department of Water Resources Western Regional Office JUN 8 1981 Department of Water Resources																																			
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ Thickness _____ inches Diameter _____ inches From _____ feet To _____ 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 <u>1/8</u> inches by <u>3</u> inches Number _____ From _____ feet To _____ 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 <u>1/4"</u> Placed from <u>40</u> feet to <u>218</u> feet Surface seal depth <u>40</u> Material used in seal: ☒ Cement grout ☒ Pudding clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld _____ ☐ Cemented between strata Describe access port <u>SANITARY WELL SEAL</u>																																					
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>VALLEY</u> <u>SE 1/4 NE 1/4 Sec. 7 T. 17N N/S. R. 4E E.W.</u> Subdivision Name <u>Jughandke ESTATES</u> Lot No. _____ Block No. _____																																					
11. DRILLERS CERTIFICATION I certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Jones Well Drilling</u> Firm No. <u>335</u> Address <u>RT. 1 Denney, Idaho</u> Date <u>5-12-81</u> Signed by (Firm Official) <u>Robert A. Johnston</u> and (Operator) <u>Robert A. Johnston</u>																																					

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

Department of Water Resources

Well #1

WELL INSPECTION FORM

If well is associated with water right, provide WR# 65-07573 et al

Otherwise provide legal description and a sketch map and/or address so that the well can be located easily.

1. Legal Description: TWP____, Rge____, Sec.____, ____1/4____1/4 or Lot____.
2. Owner: _____
Address _____, City_____, St____
3. Casing $\geq$ 12 inches above ground: Yes ☒ No ☐
4. Access Port: Yes____ No ☒ Static Water Level: 71
Pressure Gauge: Yes____ No ☒ Casing Diameter: 8"
Flowing: Yes____ No ☒ Temperature: 52°
Properly Valved: Yes____ No N/A
5. Are there any obvious construction problems that may be a source for contamination or waste of water: Yes____ No ☒

If answer to Item 5 is Yes, describe in remarks and attach photo.

Remarks:

See well log in file.
Drilled 1985.

Department of Water Resources

WELL INSPECTION FORM

If well is associated with water right, provide WR# 65-09573 *well #2 et al*

Otherwise provide legal description and a sketch map and/or address so that the well can be located easily.

1. Legal Description: TWP____, Rge____, Sec.____, ____1/4____1/4
or Lot____.

2. Owner: _____

Address _____, City_____, St____

3. Casing $\geq$ 12 inches above ground: Yes ☒ No _____

4. Access Port: Yes ☒ No _____ Static Water Level: 171'
Pressure Gauge: Yes _____ No ☒ Casing Diameter: 6"
Flowing: Yes _____ No ☒ Temperature: 48°
Properly Valved: Yes _____ No N/A

5. Are there any obvious construction problems that may be a source for contamination or waste of water: Yes _____ No ☒

If answer to Item 5 is Yes, describe in remarks and attach photo.

Remarks:

well log in file.
Drilled 1985.

Department of Water Resources

WELL INSPECTION FORM

Well #3

If well is associated with water right, provide WR# 65-07573 et al

Otherwise provide legal description and a sketch map and/or address so that the well can be located easily.

1. Legal Description: TWP____, Rge____, Sec.____, ____ 1/4 ____ 1/4
or Lot____.

2. Owner: _____

Address _____, City_____, St____

3. Casing $\geq$ 12 inches above ground: Yes ☒ No _____

4. Access Port: Yes ☒ No _____ Static Water Level: unknown

Pressure Gauge: Yes _____ No ☒ Casing Diameter: 6"

Flowing: Yes _____ No ☒ Temperature: unknown, but cold

Properly Valved: Yes _____ No N/A

5. Are there any obvious construction problems that may be a source for contamination or waste of water: Yes _____ No ☒

If answer to Item 5 is Yes, describe in remarks and attach photo.

Remarks:

well log in file

Drilled 1985.

Photographs are for rights :

A65-04059

A65-07257 (spring)

A65-07290

65-07573 & A65-07573

65-13013



Jughandle Estates
No. 1 & 2 and
Jughandle Highlands
No. 1 & 2

(4 subdivision
development)

SE of McCall
approx 1-2 miles
East of Farm to
Market Road.

PHOTO ONE-

WELL # 1 North
of storage tank.

WELL # 2 just
South of storage tank.

PHOTO TWO-





PHOTO THREE-

Well #3 south of well #2 & tank.



PHOTO FOUR-

Spring A65-07257 located SE of 3 wells & storage tank. View is looking south. Valve is for headgate for overflow at base of cement springbox. Spring located at edge of large Rockslide.



PHOTO FIVE-

Pln typical home with lawn. Average lawn is approx. 10,000 ft².



PHOTO SIX-

Pln typical home without a lawn. Grasses in photo are native non-irrigated species.

**PHOTO**

SEVEN - p/n A65-07257

Looking east at part of pond from
Jughandle Drive (the road between pond &
tennis courts). Pond is fed by spring
in photo #4.