

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE STATE OF IDAHO,
IN AND FOR THE COUNTY OF TWIN FALLS

IN RE THE GENERAL ADJUDICATION
OF RIGHTS TO THE USE OF WATER FROM
THE SNAKE RIVER BASIN WATER SYSTEM.

CIVIL CASE NUMBER: 39576

Ident. Number: A36-04259
Date Received: 11/ 5/1991
Receipt No: S013852
Received By: AKC

NOTICE OF CLAIM TO A WATER RIGHT
ACQUIRED UNDER STATE LAW

1. Name: MARY CHUGG ALLEN 208-733-0395
Address: 734 GOLF COURSE RD
JEROME ID 83338

2. Date of Priority: APR 1, 1966

3. Source: K LATERAL Trib. to: SNAKE RIVER
K 2 LATERAL SNAKE RIVER

4. Point of Diversion:

Township	Range	Section	1/4 of	1/4 of	1/4	Lot	County
09S	17E	17	SW	NW			JEROME
			SW	SW			JEROME

5. Description of diverting works:
CULVERT

6. Water is used for the following purposes:

Purpose	From	To	C.F.S	(or)	A.F.A.
IRRIGATION	03/15	11/15	7.680		
STOCKWATER	05/01	11/01	0.230		

7. Total Quantity Appropriated is:
7.680 C.F.S. (and/or) A.F.A.

8. Total consumptive use is Acre Feet Per Annum.

9. Non-irrigation uses:
S/1000 RANGE, 50 HORSES

10. Place of Use:

Township	Range	Section	1/4 of	1/4	Lot	Use	Acres
09S	17E	17	NE	SW		IRR	35.0

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10. Place of Use: Continued

Township	Range	Section	1/4	of	1/4	Lot	Use	Acres
09S	17E	17	SW		SW		IRR	40.0
			SE		SW		IRR	30.0
			NE		SE		IRR	40.0
			NW		SE		IRR	30.0
			SW		SE		IRR	25.0
			SE		SE		IRR	40.0
							Section Acres	240.0
		20	NW		NE		IRR	40.0
			SW		NE		IRR	34.0
			NE		NW		IRR	40.0
			NW		NW		IRR	20.0
			SE		NW		IRR	10.0
							Section Acres	144.0
							Total Acres	384.0

11. Place of use in counties: JEROME

12. Do you own the property listed above as place of use? YES

13. Other Water Rights Used:

14. Remarks:

THE SOURCE IS WASTE WATER FROM THE CANAL THE CHUGGS ARE AT THE
END OF THE CANAL. NO OTHER USERS.

15. Basis of Claim: BENEFICIAL USE

16. Signature(s)

(a.) By signing below, I/We acknowledge that I/We have received, read and understand the form entitled "How you will receive notice in the Snake River Basin Adjudication." (b.) I/We do _____ do not ☒ wish to receive and pay a small annual fee for monthly copies of the docket sheet.

Number of attachments: _____

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For Individuals:

I/We do solemnly swear or affirm that the statements contained in the foregoing document are true and correct.

Signature of Claimant(s): Mary Chugg Olsen Date: 11-5-91

Date: _____

State of Idaho)
County of Teton Valley) SS.

Subscribed and sworn (or affirmed) before me this 5th day
of November 19 91

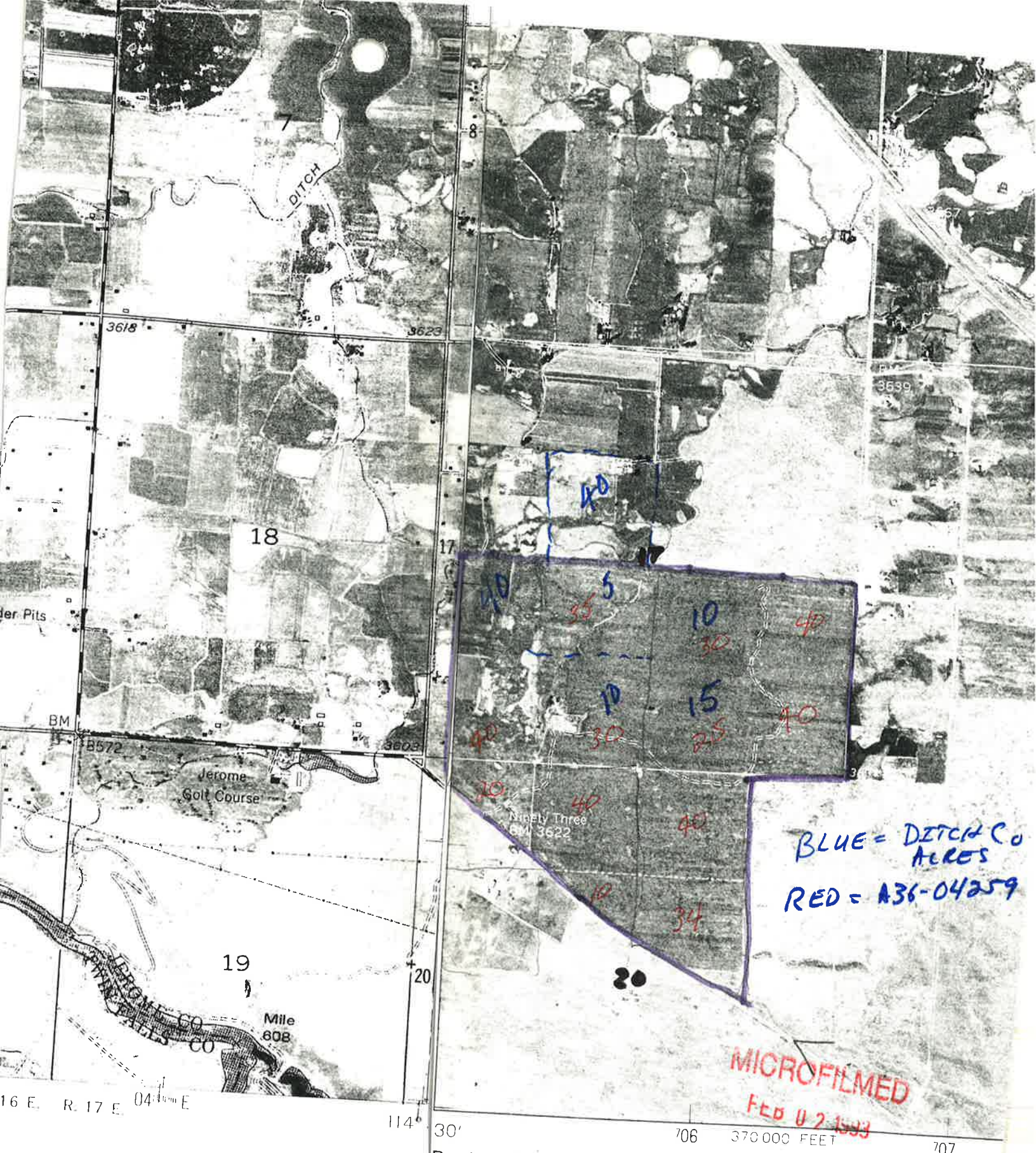
Quincy L. Linder
Notary Public

Seal

Residing at Twin Falls, Idaho

My Commission Expires July 18, 1995

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R17E

Produced by the Geological Survey
in cooperation with the Soil Conservation Service



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 222 Shoshone St. East, Twin Falls, Idaho 83301 (208) 736-3033

CECIL D. ANDRUS
Governor

FEBRUARY 20, 1992

R. KEITH HIGGINSON
Director

MARY CHUGG ALLEN
734 GOLF COURSE RD
JEROME ID 83338

**** PROOF OF PRIORITY ****
**** DEADLINE: MARCH 5, 1992 *****

RE: EVIDENCE OF PRIORITY - CLAIM A36-04259

DEAR MS. MARY CHUGG ALLEN,

OUR RECORDS INDICATE THAT YOUR CLAIM LISTED ABOVE IS BASED UPON A "BENEFICIAL USE" OF WATER. FOR WATER RIGHTS OF THIS TYPE, THE CLAIMED "PRIORITY DATE" MUST BE SUBSTANTIATED WITH SUPPORTING EVIDENCE.

BEFORE THE DEPARTMENT CAN MAKE A RECOMMENDATION TO THE COURT TO DECREE THE CLAIM, SOME EVIDENCE OF THE PRIORITY DATE MUST BE SUBMITTED. WE ARE ENCLOSING A BROCHURE OUTLINING THE TYPES OF EVIDENCE YOU MAY SUBMIT AND A PRINTOUT OF YOUR CLAIM FOR REFERENCE. WE REQUEST THAT YOU SUBMIT YOUR EVIDENCE OF PRIORITY AS SOON AS POSSIBLE. IF WE DO NOT RECEIVE THE REQUESTED DOCUMENTATION, YOUR CLAIM WILL BE RECOMMENDED FOR DISALLOWAL DUE TO LACK OF EVIDENCE SUPPORTING ANY PRIORITY DATE.

PLEASE SUBMIT THE REQUIRED EVIDENCE SUPPORTING THE PRIORITY DATE BY MARCH 5, 1992. PLEASE REFERENCE THE CLAIM NUMBER ON YOUR CORRESPONDENCE. IF YOU HAVE QUESTIONS OR NEED OTHER ASSISTANCE PLEASE CONTACT THIS OFFICE.

SINCERELY,


STEVE CLELLAND
WATER AGENT, SR.

ENCLOSURE

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RECEIVED

MAR 05 1992

Department of Water Resources
Southern Region Office

LAYNE PUMPS

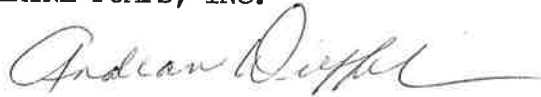
P.O. Box 640/Twin Falls, Idaho 83301/Phone: 208/733-3284

March 4, 1992

TO WHOM IT MAY CONCERN;

WE INSTALLED A 150 HP PUMPING SYSTEM IN 1966 FOR
THE HALFWAY RANCH SOUTH OF JEROME. IT WAS OUR
UNDERSTANDING THIS SYSTEM WOULD BE PUMPING WASTE
WATER AS WELL AS CANAL WATER.

LAYNE PUMPS, INC.



ARDEAN DUFFEL

SWORN TO BEFORE ME THIS 4TH DAY OF
MARCH, 1992.



RAY WIGHT, NOTARY PUBLIC



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Log for claim 36-04259

Spatial Dynamics LTD

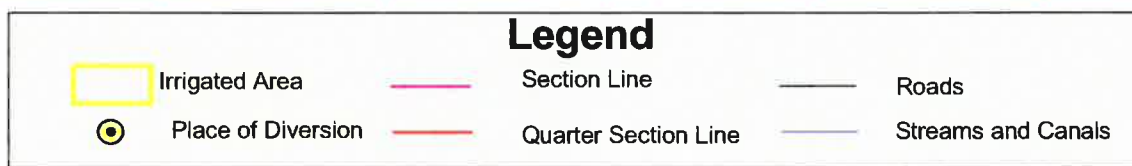
8/27/01

TR	SEC	QQ	Acres Recommended	Acres Found	COMMENT
09s17e	17	NESW	35	40	Permissible place of use?
09s17e	17	SWSW	38	36	
09s17e	17	SESW	25	36	Permissible place of use?
09s17e	17	NESE	36	35	
09s17e	17	NWSE	27	36	Permissible place of use?
09s17e	17	SWSE	25	40	Permissible place of use?
09s17e	17	SESE	40	40	
09s17e	20	NWNE	40	40	
09s17e	20	SWNE	33	32	
09s17e	20	SENE	2	2.2	
09s17e	20	NENW	39	39	
09s17e	20	NWNW	18	19	
09s17e	20	SENW	11	11	
Totals:			369	406.2	

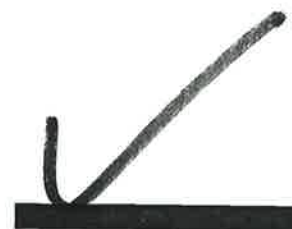
Water Right Claim Number 36-04259

Township , 9S17E

08/27/2001



R PROOF



CVR



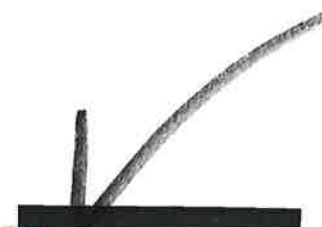
MAPS



PHOTOS



MISC



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Old (D) Number -

+ - - - - - Address - - - - - +

State- ID Zip- 83338

+ - - - Status - - - - +

+ - - - - Tributary - - - - -
SNAKE RIVER

09S	17E	17	NW SW NW	(53)	JEROME
			NE SW SW	(53)	JEROME
			NW SW SW	(53)	JEROME
			SW SW SW	(53)	JEROME
			SE SW SW	(53)	JEROME

+ - Total Div. Rate - +	+ - Total Div. Volume - +	+ - Total Consumptive Use - +	+ - KW Usage - +
4,620		1107.0	

Total Acres: 369.0

Water right number - R36-04259

Prefix Translation: RESEARCH

+ - - Diversion Means - 10" CMP IN K LAT. & 25 HP LIFT PUMP FROM POND & 20 HP SUBM. PUMP

+ - - Non-Irrigation Use -

+ - - Other Rights for Same Use - SEE CONDITIONS

+ - - - - - Remarks - - - - -
THE WASTE WATER IS DIVERTED FROM STREAMS KNOWN AS K LATERAL
AND K2 LATERAL.
POINT OF DIVERSION IS LOCATED IN CENTER OF SWSW, S17, T09S, R17E.

+ - - - - - Old Water Right Numbers - - - - -
3604259

+ - - - - - Conditions of Approval - - - - -
S17 - USE OF THIS RIGHT IS COMBINED WITH WATER FROM
- NORTH SIDE CANAL CO. LTD.
G01 - THIS RIGHT REMAINS SUBJECT TO THE RIGHT OF THE ORIGINAL
- APPROPRIATOR, IN GOOD FAITH AND IN COMPLIANCE WITH STATE LAWS
- GOVERNING CHANGES IN USE AND/OR EXPANSION OF WATER RIGHTS, TO
- CEASE WASTING WATER, TO CHANGE THE PLACE OR MANNER OF WASTING IT,
- OR TO RECAPTURE IT.
G02 - THIS RIGHT IS SUBJECT TO ADMINISTRATION AS PART OF THE NATURAL
- SOURCE TO WHICH THE WASTE IS TRIBUTARY.

+ - - - - Decree Plaintiff - - - + + - - - - Decree Defendant - - - + + - Decree Date - +
00/00/0000

+ - - - - - Comments - - - - -
Date: 02/20/1992 User Id: CLELLAND Subject: COPIED FROM REMARKS
THE SOURCE IS WASTE WATER FROM THE CANAL THE CHUGGS ARE AT THE END OF THE CANAL. NO OTHER USERS.
Date: 04/17/1992 User Id: CLELLAND Subject: CHANGE IN DIVERTING WORKS
THIS SYSTEM WAS DEVELOPED UNDER A 150 HP PUMP INTO A COMMON MAIN- LINE TO WHEELINES AND HANDLINES. IN MARCH OF 1991, THE SYSTEM
WAS CONVERTED TO A 20 HP SUBMERSIBLE SERVING ONE MAINLINE AND A 25 HP LOW PRESSURE LIFT PUMP PLACES WATER INTO AN UPPER POND. AT
THE UPPER POND IS A 40 HP PUMP DELIVERING WATER TO A LOW PRESSURE PIVOT IN THE SE1/4 OF SEC. 17. FROM THIS UPPER POND ANOTHER PUMP
OF 75 HP SERVES THE REMAINING WHEELINES AND HANDLINES AT 80 PSI.

+ - - Audit Fields - - +
08/04/92 MERRITT

+ - - - - - Adjudication Rights Dates and Flags Area - - - - -
Court Report Filing - 00/00/0000 Field Inspection Made - 04/15/1992 Civil Case Number - 39576
Objection Filed Date - 00/00/0000 Field Inspection Flag - Old Case Number -
Response Filed Date - 00/00/0000 Verified Date - 08/04/1992 Old Judicial District -
Claim Received Date - 11/05/1991 Last Amended Date - 00/00/0000 Temporary Right - P
Receipt Number - S013852 Water District -
POU Ownership Flag - Y Federal/State Indicator - S
Name Connector - Presumption Flag -
Notice of Error Flag -

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

00:34:27
01/09/92

PAGE: 12
QUICKLOOK INFORMATION

CLAIM NUMBER: A36-04259

WR ELEMENT	FIELD EXAM Y/N	CORRESPONDENCE SENT/RECEIVED BY WHOM/DATE	FIELD EXAM BY WHOM/DATE	CHANGE CLAIM Y/N	VERIFIED BY CODE	COMPLETED REVIEW WHOM/DATE	COMPLETED DATA ENTRY WHOM/DATE	VERIFIED DATE WHOM/DATE
PRIORITY DATE		Priority sent 2-20-92 Rec. 3-5-92	4-15-92 4-17-92	N	6	see 4-17-92	see 4-17-92	see 4-17-92
POINT OF DIV	(Y)			N	1,5,6			
SOURCE				(Y)	1,6			
PLACE OF USE	(Y)			(Y)	1,4,5,6			
DIV. AMOUNT CFS/VOLUME	(Y)			(Y)				
CONSUMPTIVE USE	-			(Y)				
PURPOSES	(Y)			1 (Y)	6.5			
PERIOD OF USE	Y			(Y)	6.			
BASIS OF CLAIM	Y			(Y)	6			
REMARKS	(Y)		*LEGAL REVIEW*	(Y)	6			

"VERIFIED BY" CODES

TOPO MAP/ORTHO-PQ = 1
ASCS MAP = 2
WATERMASTER RECORDS = 3
NAPP PHOTOS = 4
FIELD EXAM = 5
OTHER (SEE REMARKS) = 6

THESE CODES ARE USED TO INDICATE HOW THE FIELD EXAMINER VERIFIED THE INFORMATION
USED FOR THIS FIELD EXAMINATION. INDICATED ARE ALL CODES WHICH APPLY.

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01:25:36
01/09/92

CLAIM NUMBER: A36-04259

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Stage: BENEFICIAL USE

Misc: Water District Number: Field Inspection Flag:
Presumption Flag:

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ADJUDICATION CLAIM VERIFICATION REPORT

00:34:27
01/09/92

PAGE: 1
GENERAL INFORMATION

CLAIM NUMBER: A36-04259

LAST: ALLEN
ADDRESS: 734 GOLF COURSE RD
CITY: JEROME
PHONE NUMBER: 208-733-0395

FIRST: MARY CHUGG
STATE: ID ZIP: 83338

OWNER CODE: C

FIELD EXAM REQUIRED?

DATABASE
Y

FIELD
EXAMINER

VERIFICATION REQUIRED DUE TO REMARKS?

CLAIM REMARKS: THE SOURCE IS WASTE WATER FROM THE CANAL THE CHUGGS ARE AT THE
END OF THE CANAL. NO OTHER USERS.

FIELD EXAMINATION INFORMATION

CONTACT PERSON: MARY ALLEN

PHONE NUMBER: () 733-0395

*Jacks Mobile #
420-5555*

DATE OF FIELD EXAM: 4/15/92

APPOINTMENT MADE: Y(X) N()

TIME: 1:00 A() P(X)

ACCOMPANIED BY: JACK MONTGOMERY

PHONE NUMBER: () - -

RELATIONSHIP TO CLAIMANT: _____

*Herb Allen mobile #
420-5554*

DIRECTIONS TO PROPERTY / REMARKS:

** See phone Memo to NSCC, 2-20-92*

*Portion of Memo #35 indicates claimant has not shown the right to be
Waste Water. Supported by the fact she claimed it as K lateral. (see 2-20-92)
Waste Water review has since be further defined and this source is recognized
as waste water even though there is the Jerome Golf Course as a down stream
user. There is a significant amount of water that pours over the canyon rim
after this final delivery. See 4-16-92*

** Phone Memo w/ Herb Allen - 4-16-92 see*

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A. AJ CLAIM: # A36-04259 PRIORITY DATE: 04-01-1966 STAGE: J

B. WR RECORD: # 36-04259 PRIORITY DATE: 04-01-1966 STAGE: S

C. FIELD EXAM REQUIRED?

DUE TO PRIORITY DATE DISCREPANCY? (Y/N)

DATABASE
N

FIELD
EXAMINER

ARE THERE OBVIOUS REASONS TO QUESTION THE PRIORITY DATE CLAIMED? Y() N()
IF YES EXPLAIN.

REMARKS:

Priority letter request sent 2-20-92 scu
A letter from pump supplier received + supports date.

RECOMMENDED PRIORITY DATE:
04-01-1966

REVIEWED BY

scu

DATE

4-7-92

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A. AJ CLAIM POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
A36-04259	09S	17E	17	NW	SW	NW		JEROME
A36-04259	09S	17E	17	(CENTER)	SW	SW		JEROME

OTHER AJ CLAIMS WITH SAME AJ POD
A PREFIX R PREFIX
A36-14015 R36-11392
R36-14015
R36-14109

WR RECORDS IN SAME 40 ACRE TRACT

36-08536

SOURCE: K LATERAL
K 2 LATERAL

TRIB: SNAKE RIVER
SNAKE RIVER

B. WR POINT OF DIVERSION AND SOURCE:

RIGHT	TWP.	RGE.	SEC.	1/4	1/4	1/4	LOT	CNTY
36-04259	09S	17E	17		SW	NW		JEROME
36-04259	09S	17E	17		SW	SW		JEROME

OTHER WR RECORDS WITH SAME WR POD

AJ CLAIMS IN SAME 40 ACRE TRACT
A PREFIX R PREFIX

NONE

A36-14015 NONE

SOURCE: K LATERAL
K 2 LATERAL

TRIB: SNAKE RIVER
SNAKE RIVER

C. FIELD EXAM REQUIRED?

DUE TO POD DISCREPANCY? (Y/N)
DUE TO SOURCE DISCREPANCY? (Y/N)

DATABASE
Y
N

FIELD
EXAMINER

X
Y

REMARKS:

Source = Waste Water

Need to validate POD's, per field Exam sa 4-15-92

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RECOMMENDED POINT(S) OF DIVERSION AND SOURCE:

TWP. RGE. SEC. 1/4 1/4 1/4 LOT COUNTY

SOURCE: ~~K LATERAL~~ WASTE WATER TRIB: SNAKE RIVER

REVIEWED BY: SW DATE: 4-16-92

Source to Remarks

B01

F03

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A. ROOT WATER RIGHT NUMBERS: A36-04259

B. POU LISTING

TWP	RNG	SEC	1/4	1/4	LOT	NAME	AJ #/ACRES	WR #/ACRES	LANDSAT DATA	FIELD EXAM.	RECOMM. ACRES
09S	17E	17	NE	SW		ALLEN, MARY CHUGG	A36-04259 /35.0	36-04259 /35.0	40.0		
			NE	SW		LARGE CLAIM	A01-0021223 /5.0	- /		40	35
			NE	SW		ALLEN, HERB	CANAL	36-08523 /35.0			
09S	17E	17	SW	SW		ALLEN, MARY CHUGG	A36-04259 /40.0	36-04259 /40.0	41.0		
			SW	SW		ALLEN, HERB		36-08523 /40.0		38	38
09S	17E	17	SE	SW		ALLEN, MARY CHUGG	A36-04259 /30.0	36-04259 /30.0	43.0		
			SE	SW		LARGE CLAIM	A01-0021223 /10.0	- /		35	25
			SE	SW		ALLEN, HERB	CANAL	36-08523 /30.0			
09S	17E	17	NE	SE		ALLEN, MARY CHUGG	A36-04259 /40.0	36-04259 /40.0	42.0		
			NE	SE		CHUGG, ESTATE OF RAY		36-08266 /		36	36
			NE	SE		ALLEN, HERB		36-08523 /40.0			
09S	17E	17	NW	SE		ALLEN, MARY CHUGG	A36-04259 /30.0	36-04259 /30.0	42.0		
			NW	SE		LARGE CLAIM	A01-0021223 /10.0	- /		37	27
			NW	SE		ALLEN, HERB	CANAL	36-08523 /30.0			
09S	17E	17	SW	SE		ALLEN, MARY CHUGG	A36-04259 /25.0	36-04259 /25.0	41.0		
			SW	SE		LARGE CLAIM	A01-0021223 /15.0	- /		40	25
			SW	SE		ALLEN, HERB	CANAL	36-08523 /25.0			
09S	17E	17	SE	SE		ALLEN, MARY CHUGG	A36-04259 /40.0	36-04259 /40.0	41.0		
			SE	SE		ALLEN, HERB		36-08523 /40.0		40	40
09S	17E	20	NW	NE		ALLEN, MARY CHUGG	A36-04259 /40.0	36-04259 /40.0	38.0		
			NW	NE		ALLEN, HERB		36-08523 /40.0		40	40
09S	17E	20	SW	NE		ALLEN, MARY CHUGG	A36-04259 /34.0	36-04259 /34.0	32.0		
			SW	NE		CHUGG, ESTATE OF RAY		36-08266 /		33	33
			SW	NE		ALLEN, HERB		36-08523 /34.0			
09S	17E	20	NE	NW		ALLEN, MARY CHUGG	A36-04259 /40.0	36-04259 /40.0	41.0		
			NE	NW		ALLEN, HERB		36-08523 /40.0		39	39
09S	17E	20	NW	NW		ALLEN, MARY CHUGG	A36-04259 /20.0	36-04259 /20.0	24.0		
			NW	NW		CHUGG, ESTATE OF RAY		36-08266 /		18	18
			NW	NW		ALLEN, HERB		36-08523 /20.0			
09S	17E	20	SE	NW		ALLEN, MARY CHUGG	A36-04259 /10.0	36-04259 /10.0	8.0		
			SE	NW		CHUGG, ESTATE OF RAY		36-08266 /		11	11
			SE	NW		ALLEN, HERB		36-08523 /10.0			
TOTAL ACRES							A36-04259	384.00	384.00	433.00	

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SE NE

2
409 2
369

* acres claimed & recommended do not overlap any Canal rights as shown.

ARE IRRIGATED ACRES FOUND IN TRACTS OTHER THAN INDICATED ABOVE, Y (X) N ()
IF YES SEE ATTACHED SHEET:

See p. 5

C. FIELD EXAM REQUIRED?

DUE TO POU DISCREPANCY? (Y/N)

DATABASE
Y

FIELD
EXAMINER

PRESUMPTION FLAG: ☒

REMARKS:

- Combined with canal water acres. (80 shares)
(= 50")

RECOMMENDATIONS:

TOTAL ACRES: 369

REVIEWED BY: sa

DATE: 4-7-92

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A. AJ CLAIMED USES:

	PURPOSES	MONTH/DAY	DIVERSION QUANTITY
A36-04259	IRRIGATION	FROM ~~03-15~~ TO ~~11-15~~ 4-1 to 10-31	7.680 CFS
~~A36-04259~~	~~STOCKWATER~~	~~FROM 05-01 TO 11-01~~	~~.230 CFS~~
TOTAL DIVERSION RATE/VOLUME CLAIMED			7.680 CFS

B. WR RECORDED USES:

	PURPOSES	MONTH/DAY	DIVERSION QUANTITY
36-04259	IRRIGATION	FROM 04-15 TO 10-15	5.000 CFS
36-04259	STOCKWATER	FROM 05-01 TO 11-01	.230 CFS
TOTAL DIVERSION RATE/VOLUME CLAIMED			5.000 CFS

PRESUMPTION FLAG:

C. FIELD EXAM REQUIRED?

	DATABASE	FIELD EXAMINER
DUE TO WATER-USE DISCREPANCY? (Y/N)	N	_____
DUE TO DIVERSION RATE DISCREPANCY? (Y/N)	Y	_____
DUE TO PERIOD FROM/TO DISCREPANCY? (Y/N)	Y	_____

D. PERIOD OF USE:

RECOMMEND AS CLAIMED? Y() N()

RECOMMEND TO WR STANDARDS OR OTHER? Y(~~X~~) N() Explain in remarks, below.

REMARKS:

Stock water is incidental to the irrigation use.
- per field Exam. See

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A. DOES DIVERSION RATE CLAIMED AGREE WITH EXISTING RECORDS?

Y() N(☒)

AJ TOTAL CLAIMED DIVERSION RATE: 7.680 CFS
WR ROOT RIGHT TOTAL DIVERSION RATE: 5.000 CFS

*** IF NO or IF STATUTORY CLAIM or BENEFICIAL USE then flow measurement required. ***

** If an amount smaller than the original diversion rate is **

** claimed and an exam is NOT required, explain in remarks. **

FLOW MEASUREMENT REQUIRED?

FIELD
DATABASE EXAMINER

DUE TO STAGE OR DIVERSION RATE DISCREPANCY? (Y/N)

Y

B.

FLOW MEASUREMENT

MEASUREMENT METHOD Theoretical calc., SEE ATTACHED CALCULATIONS.

1) 25HP (above) = Q = 1.00 cfs
2) subm. 25HP = Q = 1.00 cfs

C. ARE OTHER WATER RIGHTS USED? Y(☒) N() IF YES COMPLETE OVERLAP REVIEW.

OTHER RIGHTS LISTED IN CLAIM: See Remarks

LIST ALL RIGHTS WITH A SAME POU AND IRRIGATION USAGE:

CLAIM NO.	SOURCE	NAME	DIV. RATE	DIV. RATE/ACRE	DIV. VOL.	DIV. VOL./ACRE
A36-04259	K LATERAL	ALLEN , MARY CHUGG	7.680	0.020		
A01-0021223	K 2 LATERAL LARGE CLAIM	LARGE CLAIM	9999999.000	303.196		

NO RIGHTS WITH SAME POU BUT NOT USED FOR IRRIGATION

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D.

RATE/VOLUME CALCULATIONS: (IRRIGATION)

1a. IRRIGATION RATE

ACRES 369 x 0.02 CFS/ACRE = 7.38 CFS
(Taken from p/u review)

DOES AMOUNT CLAIMED EXCEED 0.02 CFS/ACRE? Y() N()

*** IF YES ADDITIONAL WATER USE FORM FILED AND ATTACHED? Y() N() ***

2. IRRIGATION CONSUMPTIVE USE

CLAIMED CONSUMPTIVE USE = AF/A

ACRES 369 x CONSUMPTIVE VOL. AF/A FOR AREA 3 =

TOTAL CONSUMPTIVE USE 1107 AF/A

3. IRRIGATION DIVERSION VOLUME

CLAIMED DIVERSION VOLUME = AF/A

ACRES 369 x DIVERSION VOL. AF/A FOR AREA 4 =

TOTAL DIVERSION VOLUME 1476 AF/A

4. CALCULATIONS FOR USES OTHER THAN IRRIGATION:

SEE ATTACHED SHEET? Y() N()

REMARKS: (Include limitations on CONSUMPTIVE USE for combined rights.)

1b. CALCULATIONS

Recommend Diversion Rate
of 4.62 cfs for waste
water.

$$\frac{4.62 \text{ cfs}}{369 \text{ Ac.}} = 0.0125 \text{ cfs/Ac.}$$

(Since it is possible for the 80 shares,
or 1 cfs, of canal water to be used
on the gravity portion of the pasture
before ever reaching the pumping
ponds; all that would remain
for use would be waste water.)

see
4-17-92

Pump system was upgraded in March of 1991.

Old system used a single 150 Hp pump.

old system:
theor.
Calc.

$$= \frac{(8.8)(150)(0.70)}{(15) + (80 \times 2.31)} = \frac{924}{199.8}$$

4.62 cfs

Mr. Allen switched over to two pump system
→ compare with estimates of flow rates given by
MR. Allen (see memo 4-16-92):

20 HP subm. = 35"

40 HP + 75 HP = $\frac{150''}{185''}$ or 3.7 cfs

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RECOMMENDATIONS:

REC. PURPOSES	REC. PERIOD		REC. DIV		REC. DIV		REC. CONS.	
	FROM	TO	RATE CFS	EXAMINER	VOL. AF/A	EXAMINER	USE	EXAMINER
~~IRRIGATION~~ ~~STOCKWATER~~	~~03-15~~	~~11-15~~	~~7.680~~	~~_____~~	~~_____~~	~~_____~~	~~0.0~~	~~_____~~
	~~05-01~~	~~11-01~~	~~0.230~~	~~_____~~	~~_____~~	~~_____~~	~~0.0~~	~~_____~~
			7.680	4.62	14.76			1107
TOTAL FOR THIS RIGHT								
REVIEWED BY: <u>SW</u>			DATE: 4-17-92		Surface			

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B01 — K Lateral & K2 Lat.
F03 ~~K Lateral~~
SWSW, S17,

S17

A. CHECK ONLY THE FOLLOWING THAT APPLY:

	ACCEPTED AS CLAIMED	NEEDS REVIEW
OWNERSHIP _____	()	()
FORFEIT/ABANDON _____	()	()
ADDITIONAL DIV. AMOUNT _____	()	()

B. SPLIT WATER RIGHT REVIEW

ROOT WATER RIGHT NUMBER: 36-04259

TOTAL DIVERSION RATE OF WR SPLITS	DATABASE 5.000	EXAMINER _____	CFS
-----------------------------------	-------------------	-------------------	-----

SPLITS:

OLD RIGHT NUMBERS	CURRENT CLAIM NUMBERS	DIVERSION RATE	CURRENT "R" CLAIM NUM.	"R" DIV. RATE	WR RIGHT NUMBERS	DIVERSION RATE
-	A36-04259	7.680	-		36-04259	5.000
TOTAL CFS		7.680				5.000

DIVERSION RATE REVIEW

DO THE SUM CFS RATE OF THE SPLITS EQUAL THE ROOT RIGHT CFS RATE? (Y/N)
IF NO, is the written review sheet attached? (Y/N)

DATABASE
N

FIELD
EXAMINER

REMARKS:

AUTHENTICATION:

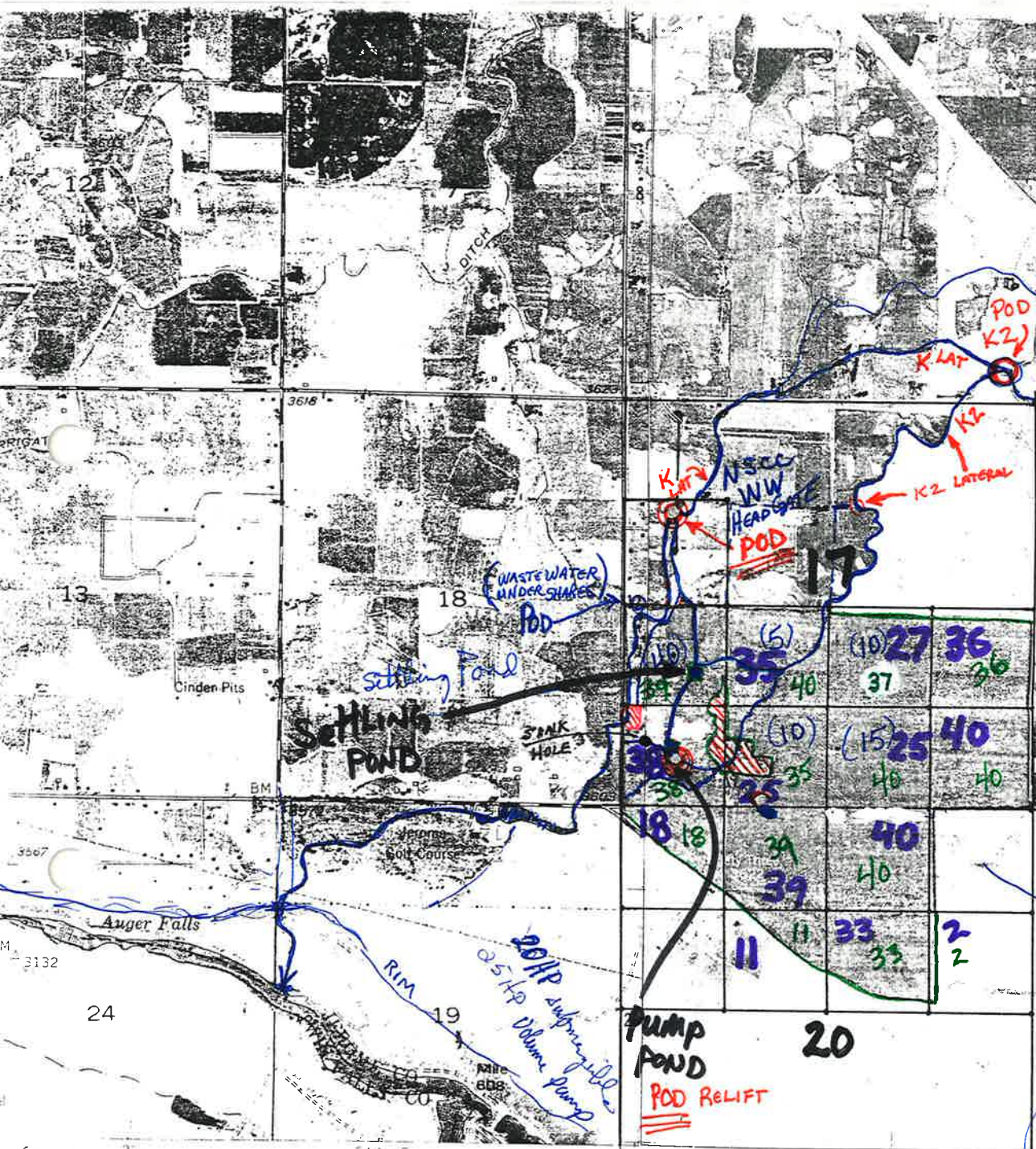
SIGNATURE: _____

DATE: _____

NAME OF FIELD EXAMINER: _____

TITLE: _____

MICROFILMED
FEB 02 1993



CLAIM A36-04259 INIT SW
 T. R. S. Q/Q 4-16-92
 P/D 9S 17E 17 NWSWNW
 PHOTO CENTER SWSW
 DT.&ID. BB 23 (sw) 1976

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T
9
S

Blue = Canal ditches (80)

Green = acres found 448

A36-04259

HP pump to lines (80 psi)
 40HP pump to pivot (40 psi)

CHUGG-ALLEN

Recommended Acres = 369

21
 field Exam
 4-15-92
 1 pm

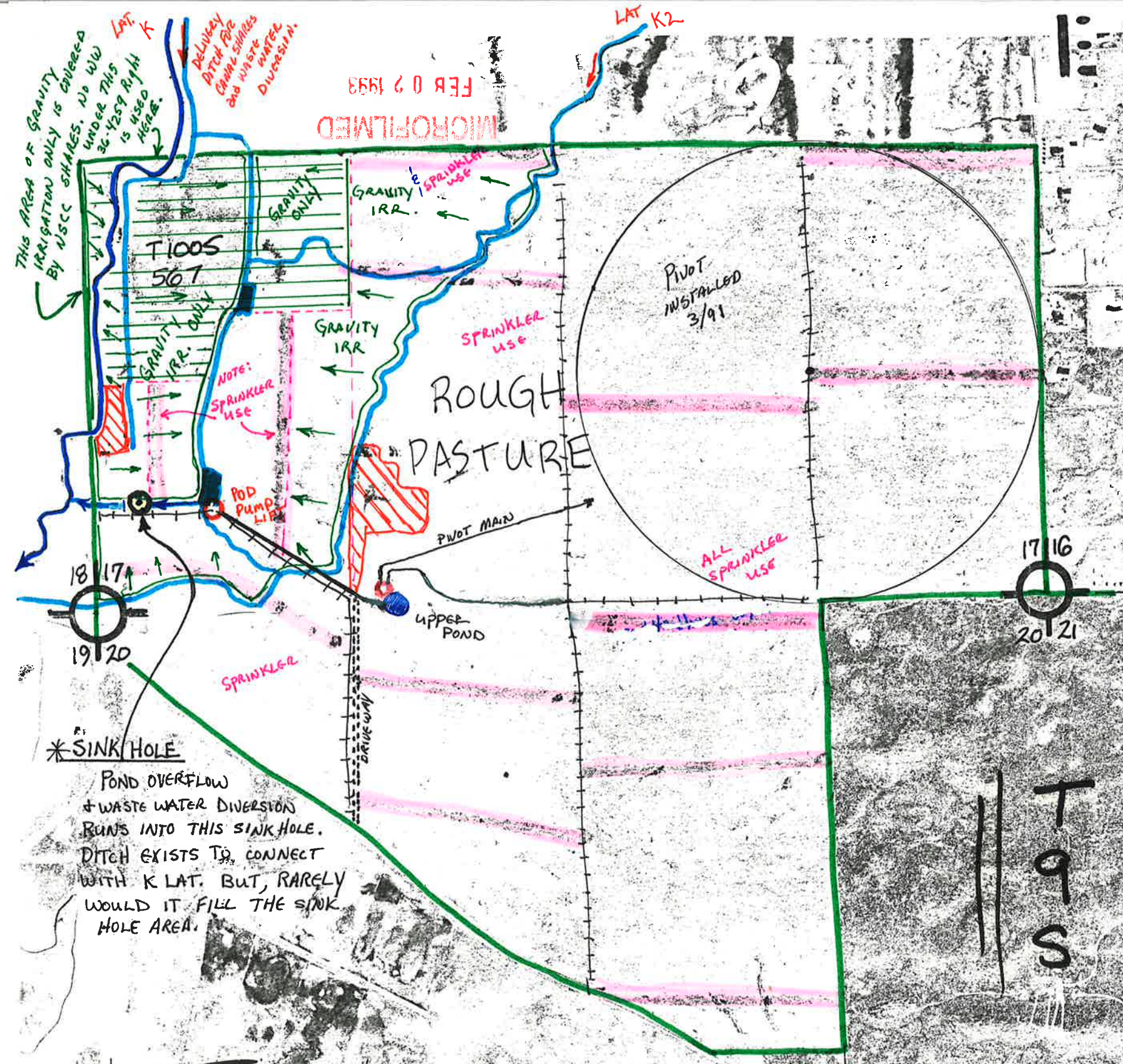
R16E R17E

Produced by the Geological Survey
 in cooperation with the Soil Conservation Service

Orthophotograph prepared from 1:78,000-scale
 aerial photographs taken August 20, 1976

Projection and 10,000-foot grid ticks

BB 23 (sw)
 1976



*SINK HOLE
POND OVERFLOW
& WASTE WATER DIVERSION
RUNS INTO THIS SINK HOLE.
DITCH EXISTS TO CONNECT
WITH K LAT. BUT, RARELY
WOULD IT FILL THE SINK
HOLE AREA.

CLAIM A36-04259 INIT SC
T. R. S. Q/Q 4-15-1992
P/D 9S 17E 17 NWSWNW
PHOTO ASCS
DT. & ID. 1987

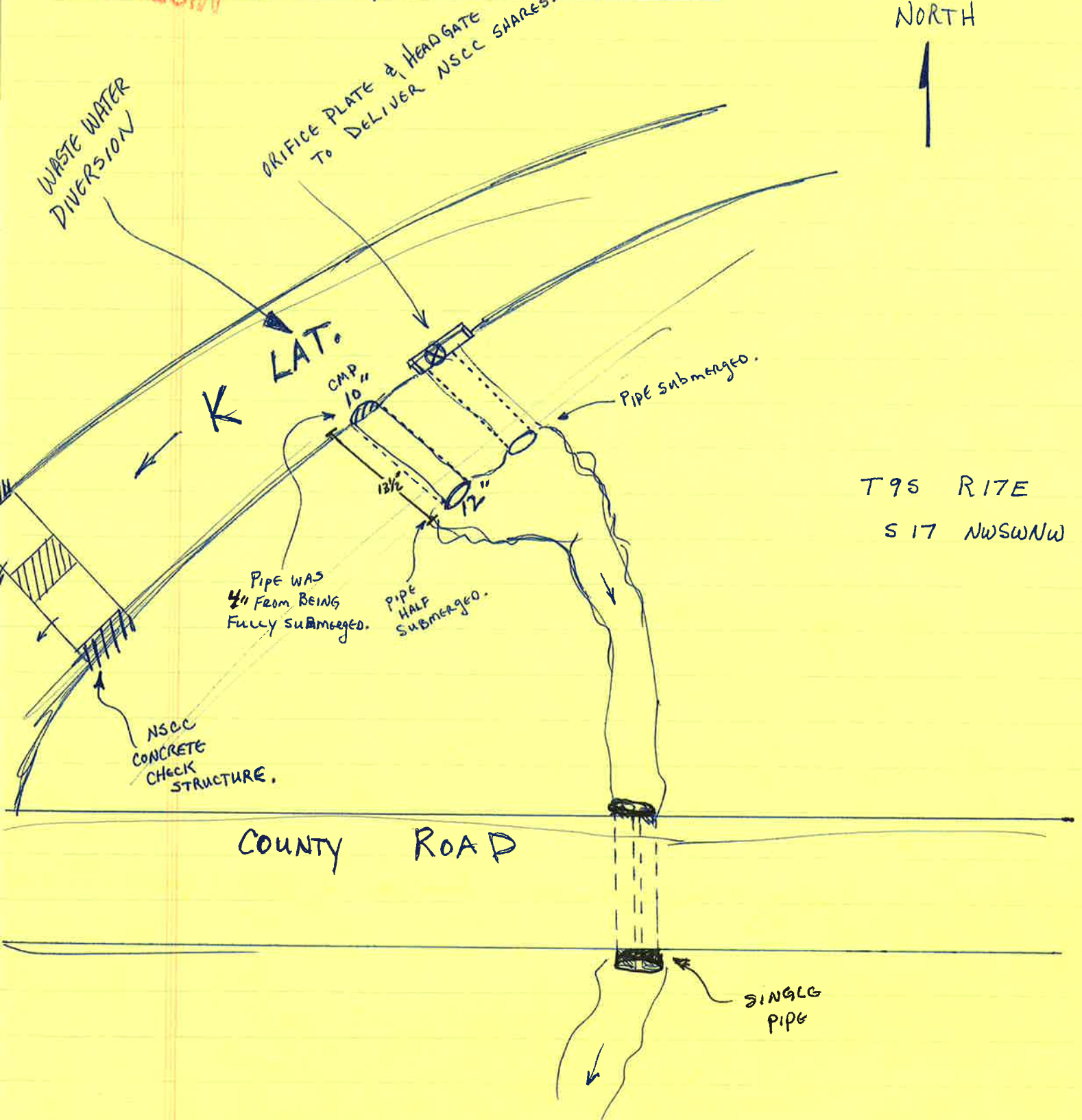
R17E

Notes based
on field exams
made on 2-21-92
& 4-15-92
by Steve Chlo Q

A36-04259
MARY ALLEN - FIELD EXAM
4-15-92 1pm By STEVE CLELLAND

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NORTH

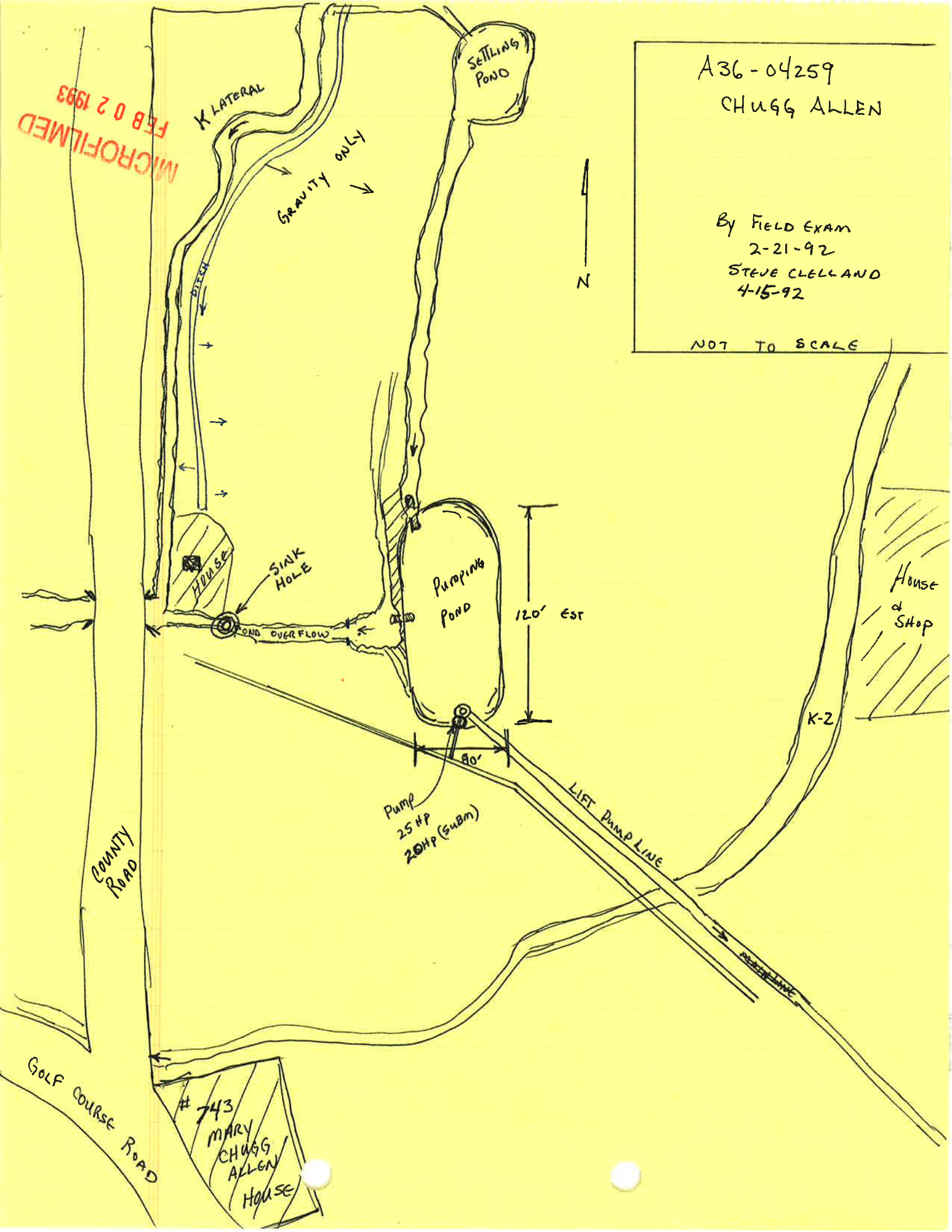


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A36-04259
CHUGG ALLEN

By FIELD EXAM
2-21-92
STEVE CLELLAND
4-15-92

NOT TO SCALE



MARY ALLEN
A36-04259

FIELD EXAM
4-15-92

2pm
By STEVE CLELLAND

RECORDED
6661 20
FEB 2 1993

NORTH

Layne & Bowler
WELLING

Pump No. LP91196

1 STAGE 10HH 110 BOWL

MOTOR:
GE VERTIMAX

MODEL:
51284QNM3023

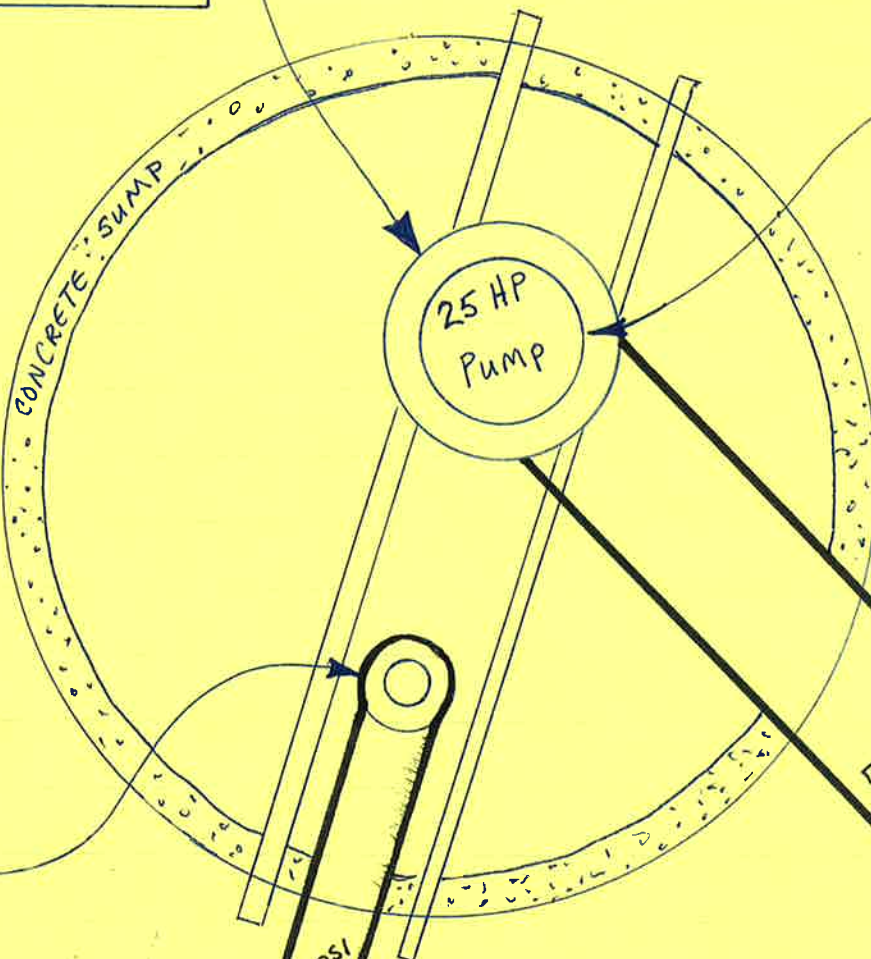
25 HP

1765 RPM

SER.# WFP 1309

FRAME:
L204TP16

POND
AREA



20 HP
submersible
pump

To upper pond
Low Pressure LIFT

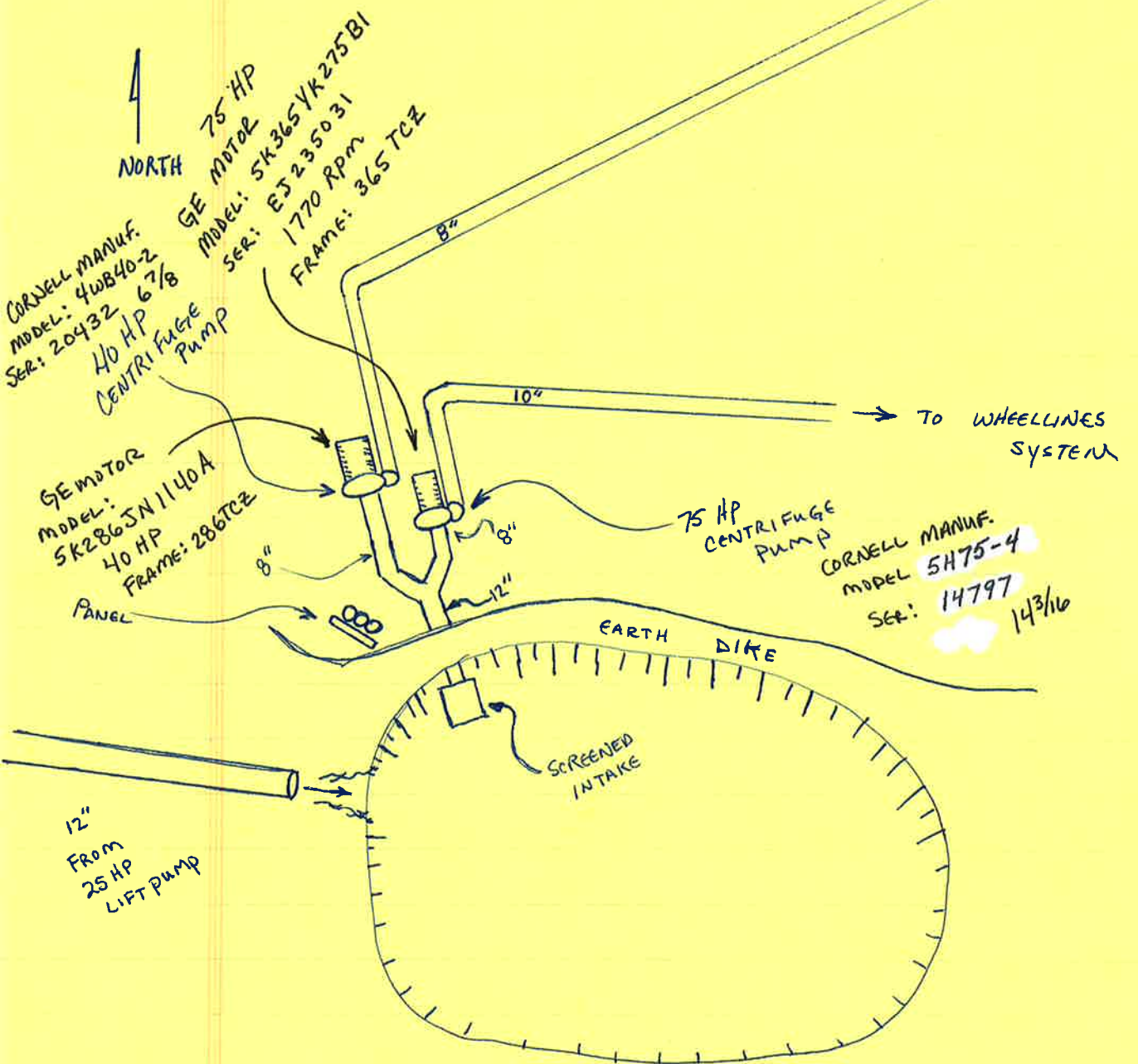
BANK
AREAS

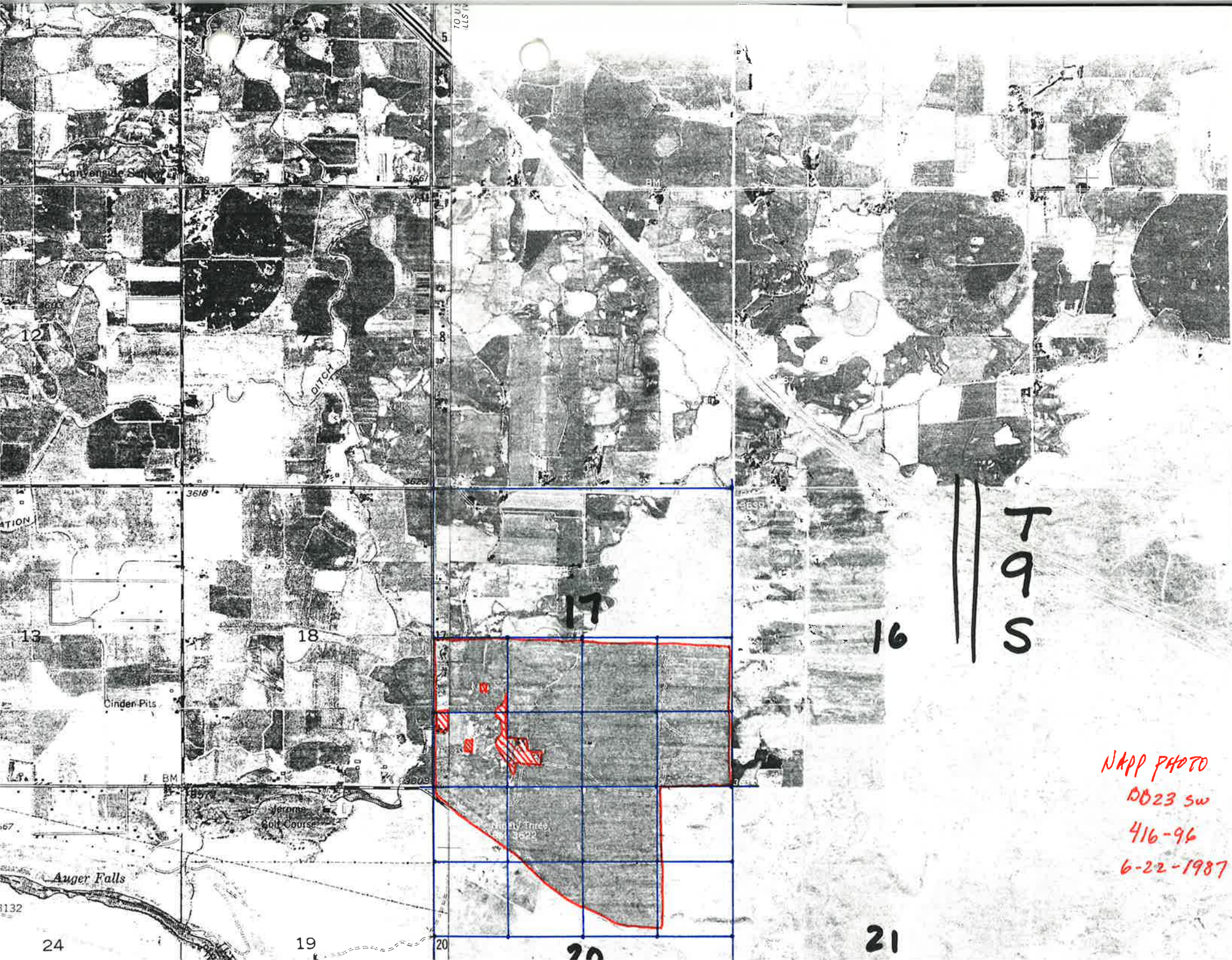
NOTE:

system looks brand new
this year. Fresh paint - No Rust -
No Dirt or Corrosion...
Bolts & Fittings all sharp & clean. 1991

★ (system upgrade)

6661 20 1993
MARY ALLEN - A36-04259
FIELD EXAM
4-17-92 SCC
UPPER POND REVIEW





NAPP PHOTO
0023 SW
416-96
6-22-1987

MARY ALLEN
A36-4259

PHOTOS BY: SCL
4-15-92

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FLOW
OF
K-LATERAL

HEADGATE ON K-LATERAL
TO DELIVER SHARES OF NSCC

WASTE WATER
FLOW CONTROL
ON K-LAT.

10" CMP



OUTLET OF WASTE WATER
DIVERSION. NOW A 12" FLANGED
STEEL PIPE, HALF SUBMERGED.

FAR RIGHT:
SHARES ENTER BY
SUBMERGED PIPE TO
COMMON DITCH.



K - LAT
SPILL OVER
THE CANYON
RIM AFTER
LEAVING GOLF
COURSE.

WATER IS NO
LONGER USED
AT THIS POINT.



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ALLEN A36-4259

PHOTOS BY DEC 4-15-92



←
MAINLINE
TO
SPRINKLER

←
MAINLINE TO
UPPER POND
FOR RE-LIFT
TO
SPRINKLERS.

20 HP
SUBMERSIBLE
IN CONCRETE
Sump.

25 HP
RE LIFT PUMP.

— View North —

ALLEN

A36-04259

PHOTOS BY SCW
4-15-92



— View West —

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ALLEN
A36-4259

20 HP submersible
TO SMALL 8" MAIN

25 HP
PUMP TO
LARGE 12" MAIN

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MAINLINE
TO SPRINKERS

pump system
FROM COLLECTION POND.

- View NW -

MAINLINE
TO UPPER
RE-LIFT POND.

CHANGED SYSTEM -
Pumps ADDED IN 1991

PHOTOS BY SCC 4-15-92

K-LATERAL
WASTE WATER DIVERSION
ENTERS SETTLING POND HERE.

(CANAL SHARES
CAN ALSO ENTER.)



K-2 LAT.
WASTE WATER CAN
RUN OFF TO POND ALSO.



EXIT FLOW
TO NEXT
LARGE POND
w/pumps.

ENTRY
PIPE

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FEB 02 1999

ALLEN
A36-4259

PHOTOS BY SC
4-15-92

View NE



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ALLEN

A36-4259

SETTLING
POND
SITE

PASTURE IRRIGATED
BY GRAVITY SYSTEM
(OR SPRINKLER) FROM
K-2 LATERAL.
WASTE WATER RUN OFF
DROPS INTO SMALL
SETTLING POND. (AT LEFT)



View
EAST

PHOTOS BY SCL
4-15-92

MORE GRAVITY SYSTEM
FROM K-2 LATERAL.

A36-4259

ALLEN



FEB 02 1993

SMALL LINE
TO
PIVOT

LARGE
LINE TO
WHEEL LINES



PHOTOS BY SCL 4-17-92

PIPELINE FROM
LOWER
POND
MICROFILMED
FEB 02 1993



upper pond



sump + intake
To pumps that serve
the pivot & mainlines

ALLEN

A36-4259

PHOTOS BY: SCC 4-17-92

CONVERSATION MEMORANDUM

EMPLOYEE: STEVE CLELLAND

FILE A36-04259

RE: WW FILING BY CHUGG ON K LATERAL

DATE 2-20-92

324-2310

NAME OF PARTY

TED DIEHL & BOB HACKWORTH (WATERMASTER)
(MANAGER)

I called to confirm the protest filed by NSCC in 1985 when this claim was first filed. They maintained their protest against this right.

I spoke to Bob H. and he said 3 CPs is delivered below the Chugg Headgate. He said they try to deliver the waste water equally so all shareholders can benefit. Ms. Allen has a 10" pipe, in addition to her headgate, from which the wastewater flows. Bob said there is becoming less & less waste water but it is available in the early mornings and late evenings.

The Canal Co. controls the extent of use of the waste water by each shareholder, unless the private individuals alter the diversion system after the ditch rider has gone.

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FEB 02 1993

TED DIEHL, GENERAL MANAGER

BERNICE JOHNSON, SEC. Y. TREAS.

NORTH SIDE CANAL COMPANY

921 NORTH LINCOLN AVENUE

PHONE 324-2319 — 324-2310

JEROME, IDAHO 83338

May 6, 1985

A. Kenneth Dunn, Director
Idaho Dept. of Water Resources
1041 Blue Lakes Blvd. North
Twin Falls, Idaho 83301

Dear Mr. Dunn:

The North Side Canal Company, Ltd. protests the filings of Mary Chugg 36-4259 for waste water on the "K-Lateral" and "K-2 Lateral". The Company has deliveries below Chugg's headgate on both laterals. On the "K-Lateral" there has been pipes installed at each wateruser's headgate, by the Canal Company. All the farmers in that area share in the waste water. This has been done since 1966. On the "K-1 Lateral", Mr. George Silvers has a headgate below Mrs. Chugg's headgate. That waste water is also shared with other waterusers.

The Canal Company cannot allow this filing because of headgates further down the laterals.

Yours truly,

NORTH SIDE CANAL COMPANY, LTD.

Ted Diehl

Ted Diehl, Manager

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FEB 02 1993

The fact that water is diverted from a "waste" ditch that "belongs" to the original appropriator does not necessarily prevent a waste appropriation. Although a water right may not be initiated in trespass, IDWR generally does not require proof that a right was not initiated in trespass for purposes of preparing the director's report. An administrator's memo indicates that the consent of the owner of the waste ditch is required for an application for permit. For purposes of adjudication claims to an appropriation from a "waste" ditch that "belongs" to someone else, the claimant will generally not be required to show that the claimant had a right of access to the ditch. Such evidence would be required if the appropriation occurred within five years prior to commencement. However, if the appropriation occurred within five years prior to commencement, it would generally run afoul of the mandatory permit statute. Where the appropriation occurred more than five years prior to commencement, it will be left to the distributor to raise any issue of lack of a right to use the distributor's diversion system in an objection to recommendation of the right.

Generally, in the following examples, the claimant has not met the claimant's burden of showing that the water claimed to have been appropriated is in fact waste water:

d. The claimant diverts water from a ditch used to deliver water to the original appropriator's place of use (even if the claimant asserts that some of the water in the ditch results from waste from other nearby uses, whether by the original appropriator, other distributees, or other appropriators).

e. The claimant diverts water from a "waste" ditch, which is used to collect waste resulting from the original appropriator's use for further use by the original appropriator. The waste ditch might feed into another delivery ditch, or it might deliver the waste directly to the place of use of other distributees of the original appropriator. The water in the waste ditch might be used by the original appropriator pursuant to the original appropriation, or pursuant to another prior appropriation of the original appropriator (such as an expansion claim).

f. The claimant builds a ditch to intercept seepage resulting from the original appropriator's use that would otherwise return to a ditch built by the original appropriator to collect seepage resulting from the original appropriator's use.

2. Water is no longer waste (for purposes of appropriation by persons other than the original appropriator) when it reaches a natural source; it then becomes part of the natural source.

For example, the claimant may not divert water from the stream, and assert that it is not subject to the priorities of the

Not PART of THE
A36-04259 system

NORTH ↑

NOT TO SCALE

A36-04259

By FIELD EXAM

2-21-92

STEVE CLELLAND

6" x 18" submerged orifice

K-2 LATERAL

#7 Headgate
K-2
(SHIFFLER)

#1 Headgate
K-2
(~~SHIFFLER~~)
SHIFFLER

CONCRETE BOX
STRUCTURE

CIP. WEIR

(GAGE MEASURES CFS/INCHES)
HIGH WATER MARK @ 3 cfs

FLOW ↓

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FEB 02 1992

NSCC SHARES
DELIVERED VIA
THIS DITCH
POU
A36-04259
FLOWS TO

A36-04259

ALLEN



-this headgate
delivers water to
allen's lands

K-2 LATERAL
NSCC



K2 LATERAL
NSCC

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PHOTOS: 2-21-92 BY SCC

CONVERSATION MEMORANDUM

EMPLOYEE: STEVE CLELAND

FILE

A36-4259RE: FIELD EXAM NOTESDATE 4-16-92

NAME OF PARTY

HERB ALLEN

He returned my call. I ask about the psi of the two pumps on the lower pond. after some confusion, I was informed of a second pumping pond that now supplied the sprinklers. The old 150HP, ^{80 PSI} single pump system has been replaced by a 20 Hp submersible pump in the lower pond. This supplies about 1 1/2 of the quarter mile lines. He estimated a flow rate of 30-35". $(150 \text{ gpm} \times 1.5 = 0.50 = 25")$
It operates at 80 psi. 448.8

The 25Hp pump is a low pressure lift pump to the upper pond. This pump is set-up on a float switch that operates the ON/OFF system. (theoretical calc. shows 10.27 cfs) The upper pond has two pumps; one is the 70 Hp pump, at 80 psi, delivers water to hand & whedlines; the second pump is a 40 Hp to the newly installed pivot which operates at 40 psi. Mr. Allen estimates the flow of these pumps combined at 150".

This change was made in March of 1991.

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DIVERSION RATE ANALYSIS

4-17-92

5 cc

OLD SYSTEM

This acreage was developed and irrigated under the single pump, 150 HP, combined mainline system.

ASCS 1987 photo and NAPP photo BB 23 SW dated 6-22-1987 both reveal the number of 1/4 mile lines in operation that year. There are 12 1/2 lines in operation in 1987.

Assume 150 GPM per line

$$12.5 \times 150 = 1875 \text{ GPM}$$

$$\div 448.8 = \underline{4.18 \text{ cfs}}$$

RECOMMENDED
DIVERSION RATE

Theoretical calculation for this system = 4.62 cfs

NORTHSIDE CANAL SHARES:

80 shares $\times \frac{5}{8}$ MINER INCH = 50" or 1.0 cfs CANAL WATER

NEW SYSTEM

System was upgraded in March 1991 to a combination of multiple pumps. (see additional sheets.)

	<u>THEORETICAL</u>	<u>CLAIMANT'S EST.</u>
20 HP pump Q =	0.67 cfs	0.60 - 0.70 cfs
25 HP LIFT pump [Q = 4.58]		—
40 HP pivot pump Q =	2.67	0.80 - 1.34
75 HP LINE pump Q =	2.50	1.00 - 1.66
TOTAL Q	<u>5.84</u>	<u>2.40 - 3.70</u>

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OLD SYSTEM

OLD SYSTEM:

150 HP pump

(231")

* WATER RIGHT DEVELOPED UNDER THIS SYSTEM *

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-4259

DATE: 4-16-92

BY: SC

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (\dots 150 \dots) \times (0.70)}{[(\dots 15 \dots) + (\dots 80 \dots \times 2.31)]} = \frac{924}{199.8} = 4.62 \text{ cfs}$$

LIFT FROM:

measurement ()

owner ()

area estimate (X)

well logs ()

Booster (Y) (N)

PSI FROM:

measurement ()

owner (X)

estimate ()

owner gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

REMARKS

System was developed under this one pump system to mainlines and handlines. Change was made in March 1991 adding a 20 HP submersible pump and the 25 HP low press. high volume lift pump. This water was lifted to the upper pond where a 75 HP pump supplies the lines and a 40 HP pump supplies a newly added low pressure pivot.

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season) (days) CV-DV

5/01-09/30 153 2-3

4/15-10/15 184 2.5-3.5

4/01-10/31 214 3-4

3/01-11/30 275 VARIES

3/15-11/15 246 VARIES

POTENTIAL = $(\dots) \times (1.98) \times (\dots)$

$(\dots)$

POTENTIAL =

REQUIRED Acre Feet/Acre/Annum =

(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

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FEB 02 1993

1991 New System

20 HP
subm.

(33")

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-4259

DATE: 4-16-92

BY: sc

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (20) \times (0.70)}{[(\cancel{0}) + (80 \times 2.31)]} = \frac{123.2}{184.8} = 0.67 \text{ cfs}$$

(33")

LIFT FROM:

measurement (X)

owner ()

area estimate ()

well logs ()

PSI FROM:

measurement ()

owner (X)

estimate ()

owner gage ()

NOTES ON PUMP:

Motor Make, Serial or ID

Pump Make, Serial or ID, rating

20 HP, submersible pump

REMARKS Booster (Y) (N) Claymont Herb Allen estimates this flow at 30-35" (0.60-0.70 cfs)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	CV-DV	POTENTIAL =
5/01-09/30	153	2-3	((.....) X (1.98) X (.....))
4/15-10/15	184	2.5-3.5	
4/01-10/31	214	3-4	((.....))
3/01-11/30	275	VARIES	
3/15-11/15	246	VARIES	

POTENTIAL = _____

REQUIRED Acre Feet/Acre/Annum = _____
(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

MICROFILMED
FEB 02 1993

25 HP
LIFT Pump

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-04259
DATE: 4-16-92
BY: SCC

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (\text{H.P.}) \times (\text{EFF.})}{\text{TDH}}$

Q = CFS
H.P. = Total Brake Horsepower of pumping plant (including booster)
EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)
TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]
LIFT = depth to water in FEET from land surface to pumping water level
PSI = pumping pressure measured in psi near pump (if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (25) \times (0.70)}{[(15') + (18.6' \times 2.31)]} = \frac{154}{33.6} = 4.58 \text{ cfs}$$

FRICITION LOSS

LIFT FROM:
measurement ()
owner ()
area estimate (X) 15'
well logs ()
Booster (Y) (N)

PSI FROM:
measurement ()
owner (X) No pressure
estimate (X) 60 psi
owner gage ()

NOTES ON PUMP: 25HP, 1765 RPM
Motor Make, Serial or ID FR: L284TP16
GE VERTIMAX, Model: 51284QNM 3023, Ser# WFP 1309
Pump Make, Serial or ID, rating
LAWTE-BOWLER WellLine, Pump No. LP91196
1 STAGE 10 HH 110 BOWL

REMARKS

Reviewed the TOPO map BB22 + BB23 - appears 15-20 ft. of rise from pond to hill top where the mainline levels off and dumps into upper pond. Low pressure - high volume lift pump. (see attached calculations)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	CV-DV	POTENTIAL =
5/01-09/30	153	2-3	(.....) X (1.98) X (.....)
4/15-10/15	184	2.5-3.5	
4/01-10/31	214	3-4	
3/01-11/30	275	VARIES	(.....)
3/15-11/15	246	VARIES	

POTENTIAL = _____

REQUIRED Acre Feet/Acre/Annum = _____
(AF/Ann/Ac irrigation requirement from chart for area)
NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

→ This pump lifts water to upper pond where 75 HP + 40 HP Boost to sprinklers.
~~assume the same flow rate for the submerged pump as well~~
~~Q = 1.0 cfs~~

MICROFILMED
FEB 9 2 1993

Calculations by ADM

4-17-92

Flow of 25HP low pressure lift pump to upper pond.

$$Q = \frac{HP \times 8.8 \times 0.7}{(15' + F.L.)}$$

$$F.L. = 4.66n^2 \frac{LQ^2}{D^{16/3}}$$

$$n = 0.012$$

$$Q = \frac{(25) \times 8.8 \times 0.7}{(15 + 4.66(0.012)^2 1320 Q^2)}$$

$$Q = \frac{154}{(15 + 0.89 Q^2)}$$

Friction Loss = 18.6'

$$\frac{154}{Q} = 15 + 0.89 Q^2$$

$$154 = 15Q + 0.89 Q^3$$

$$173 = 16.85Q + Q^3$$

$$Q^3 = 173 - 16.85Q$$

MICROFILMED
FEB 02 1993

Q

Q³

173 - Q 16.85.

1

1

156.15

2

8

188.3

3

27

122.95

4

64

105.6

5

125

4.5

91.13

97.18

4.6

97.34

95.47

4.55

94.20

4.56

94.8

4.57

95.44

96.00

4.58

96.07

95.83

1991 NEW SYSTEM

75 HP

(125")

TO W. LINES

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-4259

DATE: 4-17-92

BY: SC

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (75) \times (0.70)}{[(\phi) + (80 \times 2.31)]} = \frac{462}{184.8} = 2.50 \text{ cfs (125")}$$

LIFT FROM:

measurement (X)

owner ()

area estimate ()

well logs ()

Booster (Y) (N)

PSI FROM:

measurement ()

owner (X) 80 PSI

estimate ()

owner gage ()

NOTES ON PUMP:

FRAME: 365TCZ

SERIAL# EJ235031

Motor Make, Serial or ID 1770 RPM

GE MOTOR, 75 HP, MODEL: 5K365YK 275 B1

Pump Make, Serial or ID, rating

CORNELL MANUFACTURING,

MODEL: 5H75-4, Serial# 14797 14 3/16

REMARKS

Claimant Herb Allen estimates this flow
at 50"-83". (1.00-1.66)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season)	(days)	CV-DV	POTENTIAL =
5/01-09/30	153	2-3	(.....) X (1.98) X (.....)
4/15-10/15	184	2.5-3.5	
4/01-10/31	214	3-4	
3/01-11/30	275	VARIES	(.....)
3/15-11/15	246	VARIES	

POTENTIAL = _____

REQUIRED Acre Feet/Acre/Annum =

(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

MICROFILMED

FEB 02 1993

GROUNDWATER MEASUREMENT REQUIREMENT ANALYSIS

FILE: A36-4259

DATE: 4-17-92

BY: ser

THEORETICAL RATE OF FLOW: $Q = \frac{(8.8) \times (H.P.) \times (EFF.)}{TDH}$

Q = CFS

H.P. = Total Brake Horsepower of pumping plant (including booster)

EFF. = Pumping plant efficiency (ASSUME 70% OR 0.70)

TDH = total dynamic head = [(LIFT) + (PSI X 2.31)]

LIFT = depth to water in FEET from land surface to pumping water level

PSI = pumping pressure measured in psi near pump
(if open discharge assume zero [0])

$$Q = \frac{(8.8) \times (40) \times (0.70)}{[(\cancel{0}) + (40 \times 2.31)]} = \frac{246.4}{92.4} = 2.67 \text{ cfs}$$

(133")

LIFT FROM:

measurement (x)

owner ()

area estimate ()

well logs ()

Booster (Y) (N)

REMARKS

PSI FROM:

measurement ()

owner (x) 40 PSI

estimate ()

owner gage ()

NOTES ON PUMP:

Motor Make, Serial or ID Frame: 286TCZ

GE MOTOR, 40 HP, MODEL: 5K286JN1140A

Pump Make, Serial or ID, rating

CORNELL MANUF. MODEL: 4WB40-2

SERIAL # 20432 67/8

Claimant estimates this flow at
40"-67" (0.80 - 1.34 cfs)

ANNUAL VOLUME ANALYSIS

POTENTIAL Acre Feet/Acre/Annum = $\frac{(\text{DAYS IN SEASON}) \times (1.98) \times (Q)}{(\text{RECOMMENDED ACRES IRRIGATED})}$

(season) (days) CV-DV

5/01-09/30 153 2-3

4/15-10/15 184 2.5-3.5

4/01-10/31 214 3-4

3/01-11/30 275 VARIES

3/15-11/15 246 VARIES

POTENTIAL = $(\dots) \times (1.98) \times (\dots)$ $(\dots)$

POTENTIAL =

REQUIRED Acre Feet/Acre/Annum =

(AF/Ann/Ac irrigation requirement from chart for area)

NOTE that this is NOT Consumptive use

IF POTENTIAL IS GREATER THAN REQUIRED THEN NO MEASUREMENT NECESSARY ()

IF POTENTIAL IS LESS THAN REQUIRED THEN MEASUREMENT IS NECESSARY ()

MICROFILMED

FEB 02 1993