

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 02 1997

Department of Water Resources

A. GENERAL INFORMATION

Permit No. 29-07682

1. Owner: ESTHER TURNER
Current Address: 1355 DOUGLAS LANE, POCAHELLO, IDAHO 83204

Phone No. 208-232-5232

2. Accompanied by: ESTHER TURNER EXAM. DATE: 9-MAR-95

Address: _____ Phone No. _____

Relationship to Permit Holder: OWNER

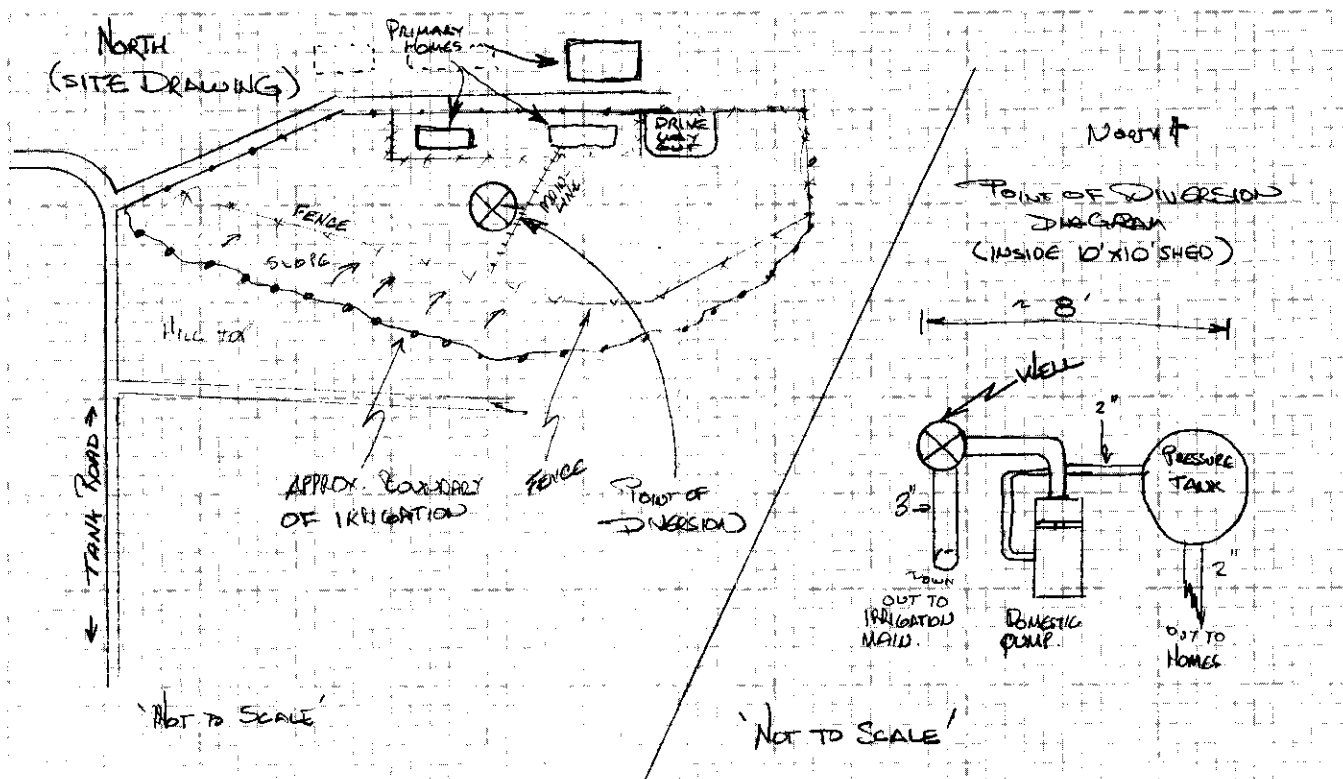
3. Source: GROUNDWATER tributary to _____

B. OVERLAP REVIEW

1. Other water rights with same place of use: 29-02344 (A29-02344E) HAS CLAIMED
A POINT OF DIVERSION CHANGE FOR PORTION OF LICENSE 29-02344 ☒ Copies Attached
2. Other water rights with same point of diversion: A29-02344E VIA POINT OF DIVERSION
CHANGE. ☐ 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



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.)

SYSTEM CONSISTS OF ONE (1) 8" DIAMETER WELL. DEPTH TO WATER IS 60' (ACCORDING TO OWNER). THERE ARE TWO (2) SUBMERSIBLE PUMPS IN THE WELL. A 5HP PUMP IS USED TO DELIVER WATER TO A HANDLINE IRRIGATION SYSTEM. THE OWNER INDICATES THAT THIS SYSTEM CAN SUPPLY 15, 5/32" DIAMETER HANDBIRDS IN ONE SETTING. HANDLINES ARE 3" DIAMETER, FEED BY A 3" DIAMETER, BURIED PIPELINE. THE DOMESTIC WELL IS PRIMARY SOURCE OF CULINARY WATER FOR THREE (3) HOMES, AND IS PLUMBED INTO TWO (2) ADDITIONAL HOMES FOR A BACKUP WATER SUPPLY. DOMESTIC SYSTEM ☒ 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
IRRIGATION PUMP	FAIRBANKS/MORSE	5.0	40070518	SUBMERSIBLE	3" DIAMETER
DOMESTIC PUMP	GROVER	1.5	1741591	SUBMERSIBLE	1 1/2" DIAMETER

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

5. Point(s) of Diversion:

Ident. No.	Gov't. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
	L6	NW	NW	SW	6	6S	34E	POWER	USGS QUAD, AERIAL PHOTO, OUTSITE EXAM

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	
6S	34E	6							D-1			L6							4*
												D-2							

* FOUND 6 ACRES IRRIGATED, PERMITTED FOR 4, RECOMMEND 4
26

Do not use this space

D. FLOW MEASUREMENTS

☐ Additional Data Sheets Attached

1.

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

2. Measurements:

IRR: THEORETICAL: $Q = \frac{HP(8.8143)E}{H + (PSI \times 2.308)}$, Assume $E = 70\%$ $Q = \frac{(5)(8.8143)(.70)}{60' + (40 \times 2.308)} = 0.20 \text{ cfs}$

IRR: THEORETICAL, RAINBIRD METHOD: $Q = \sqrt{\text{Nozzle Dia.}^2 (PSI) \cdot 0.665 \times \text{No. Birds}} \times \left(\frac{5}{32}\right)^2 \cdot 40 \text{ PSI} \times 0.665 \times 15 = 0.15 \text{ cfs}$

* = OWNER STATED THAT SHE NORMALLY RAIN 15 BIRDS PER SET.

** = ASSUMED NOZZLE PRESSURE TO BE 40 PSI. / RECOMMEND: $(4 \text{ ac})(0.03 \text{ cfs/ac.}) = 0.12 \text{ cfs}$

FOR IRRIGATION.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

1. Measured Method: THEORETICAL: DOMESTIC: 1.5HP @ 40 PSI @ 60' H = 0.06 cfs 3 DOMESTIC @ 0.02 cfs/unit = 0.06 cfs

TOTAL: 0.18 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) ; 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:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \frac{(4)(4) = 16 \text{ AFA}}{1}$

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \frac{(0.12 \text{ cfs})(214) \times 1.9835 = 50.9 \text{ AFA}}{1}$

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 16 \text{ AFA}$

2. Volume Calculations for Other Uses:

DOMESTIC (30 UNITS) (0.6 AFA/unit) = 1.8 AFA

H. REMARKS AND OVERLAP REVIEW ANALYSIS

DOMESTIC SYSTEM WAS OPERATING @ 40 PSI. IRRIGATION SYSTEM HAS NOT BEEN TURNED ON FOR SEASON. THE IRRIGATED PLACE OF USE IS USED FOR PASTURE, IRRIGATE LAWNS AROUND 2 HOMES SOUTH OF DRIVEWAY AND TO IRRIGATE A SAGE BRUSH HILLSIDE ON EXTREME SOUTH OF PASTURE. I ESTIMATED THE EXTENT OF IRRIGATION W/ THIS BRUSHY HILLSIDE. OWNER HAS PLANTED SOME PERENNIAL/ANNUAL WILD FLOWERS AND SOME TREES AMONGST THE SAGE BRUSH.

I. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
IRRIGATION	4/1	10/31	0.12 cfs	16
DOMESTIC (3)	1/1	12/31	0.06 cfs	1.8
Totals:			0.18 cfs	17.8

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 ERIC S. VERNER

Signature [Signature]

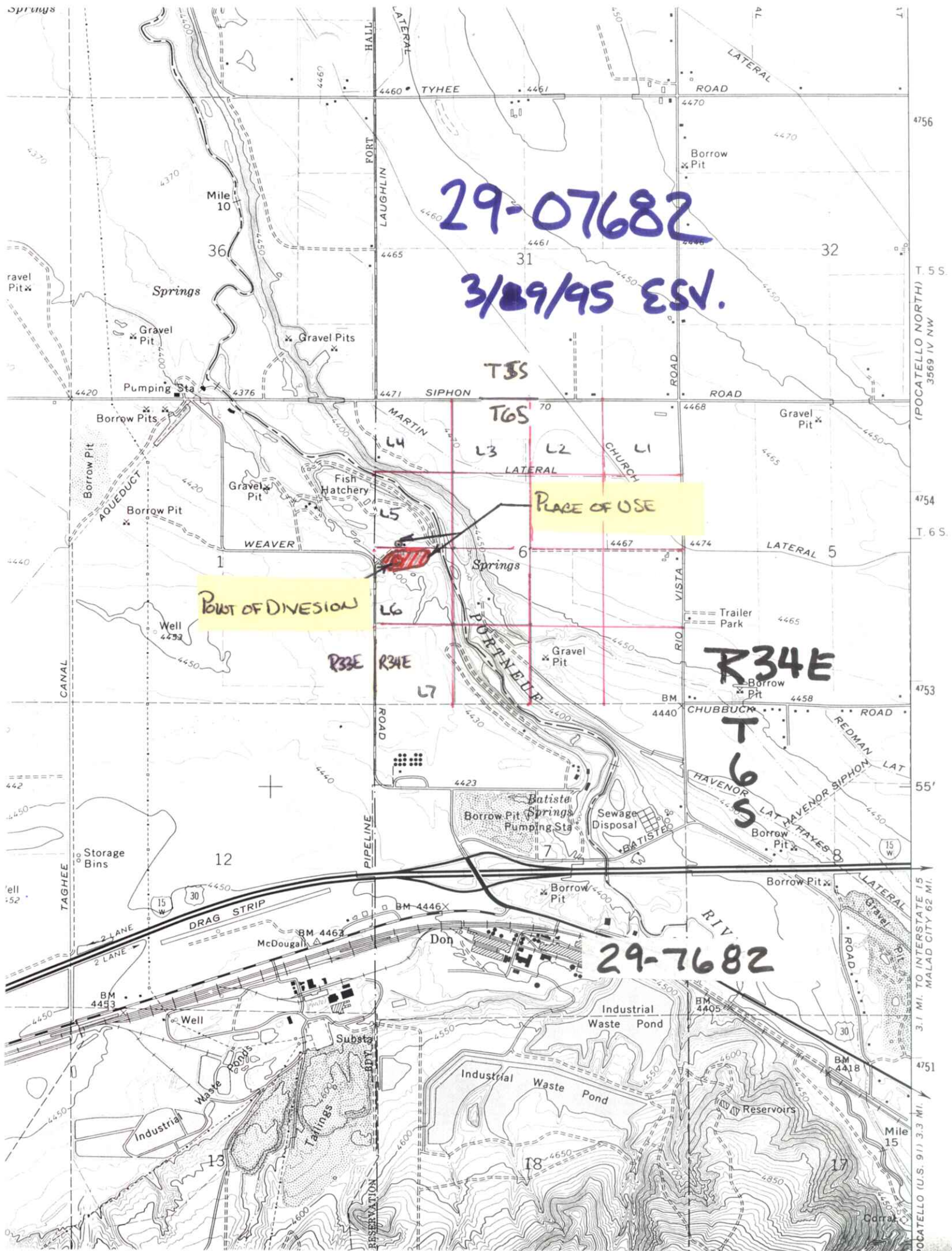
Certification Date _____

Field Report Preparation Date 10-MAR-95

CONSULTANT SEAL

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

RECOMMEND WHEN USED W/ 29-02344, NOT TO EXCEED 16 afa, 0.03 cfs/ACRE
(29-02344)



10.5
HEL

HEL 2
50.3

HEL

32.1

3
33.8

HEL

29-07682 B/U EXAM
3/4/95
EKS. V. GELER

39.5

DOMESTIC
USES
(PRIMARY)

PLACE OF
USE
Etc.

POINT OF DIVERSION

T-7918 #866
Kent Shiozawa

12.3

1/31

2

4.6

9.6

66

3.1
HEL

T6S

R
33
E

R
34
E

29-7682

47

16

12 | 7



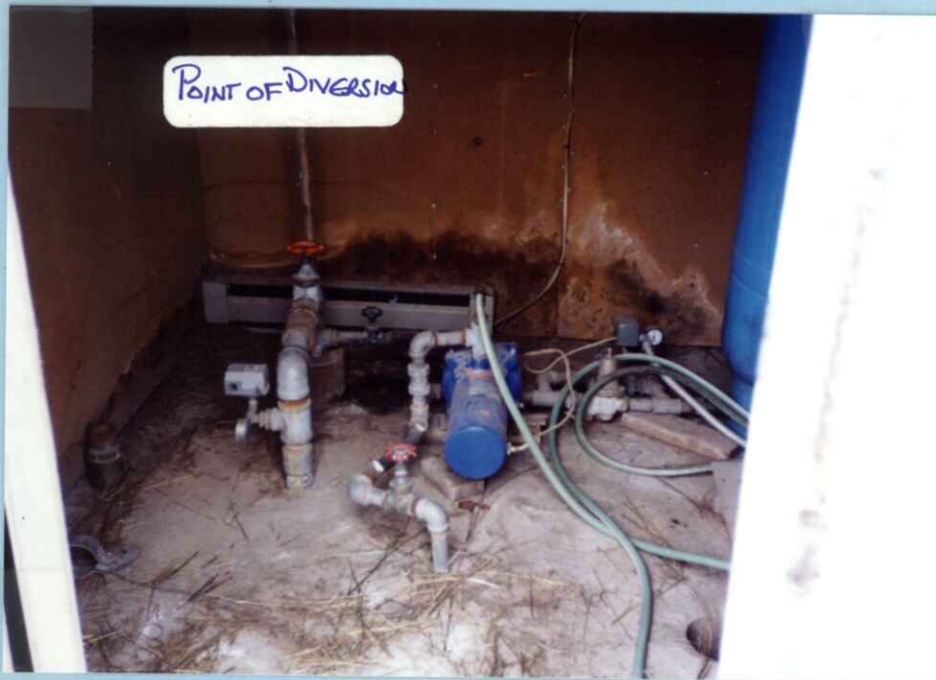
Project Inspection Photographs



File Number: _____

Taken By: ERIC VERNER ; 3/9/95

Notes



Notes



State of Idaho
Department of Water Resources
WELL INSTRUCTION FORM

This form should be completed by the examiner when conducting a field examination to determine the extent of beneficial use of water from a well or whenever a well is inspected for other reasons. The form should be attached to the beneficial use field report. If well construction standards do not appear to be met, a copy of this form should be forwarded to Groundwater Protection Section.

Water Right Permit No. 29-07682

1. Legal Description of Well Location: Twp. 6S, Rge. 34E
Sec. 6, Qtr./Qtr. NW 1/4 or Lot 6
2. Owner ESTHER TURNER
Address 1355 DOUGLASS LAKE, City POCAHONTO, State ID
3. Approx. date of well construction 1982
Well driller ?
4. Casing: Diameter 8" Condition Good
5. Casing length above land surface ~18" (INSIDE BUILDING w/ CONCRETE FLOOR)
6. Well depth (ft) ~100' Flowing No. Temp. ?
Access port SUBMERGIBLE, DOMESTIC WELL
7. Condition of piping and valving Good
8. Evidence of well seal UNKNOWN - CONCRETE FLOOR
9. Shut in pressure or static water level 60'
10. Evidence of leakage around the casing No
11. Does well need repair No
12. Comments _____

SCHEMATIC

Provide a schematic diagram showing the location of the well in the quarter-quarter with respect to houses, roads, other wells or readily identifiable features.

Inspected by _____ Date _____

G

f

F

e

M.P. 24
1.60

79.30

4	3	2	1	4	3	2
38.85	40.16	40.34	40.51	40.58	40.52	40.40

R 34E
9 T
6 S

5
39.40

40

80

Sec. 6.

639.67

6
39.24

80

7
40.47

N. 89° 43' E.

80.37

M.P. 23
1.95

H

S. 0.11 E.
80.30

80

Sec. 5.

642.00

80.00

Sec. 7

Sec. 8

T55

T65

R34E

R33E

ESTATE
POD
A35-02344EESTATE
OF
TOMMY DOUGLAS

A29-02344A

A29-02344

A29-02344B

A29-02344B

A 52.2

S 34.4

86.6 Cropland
acres

A29-02344E

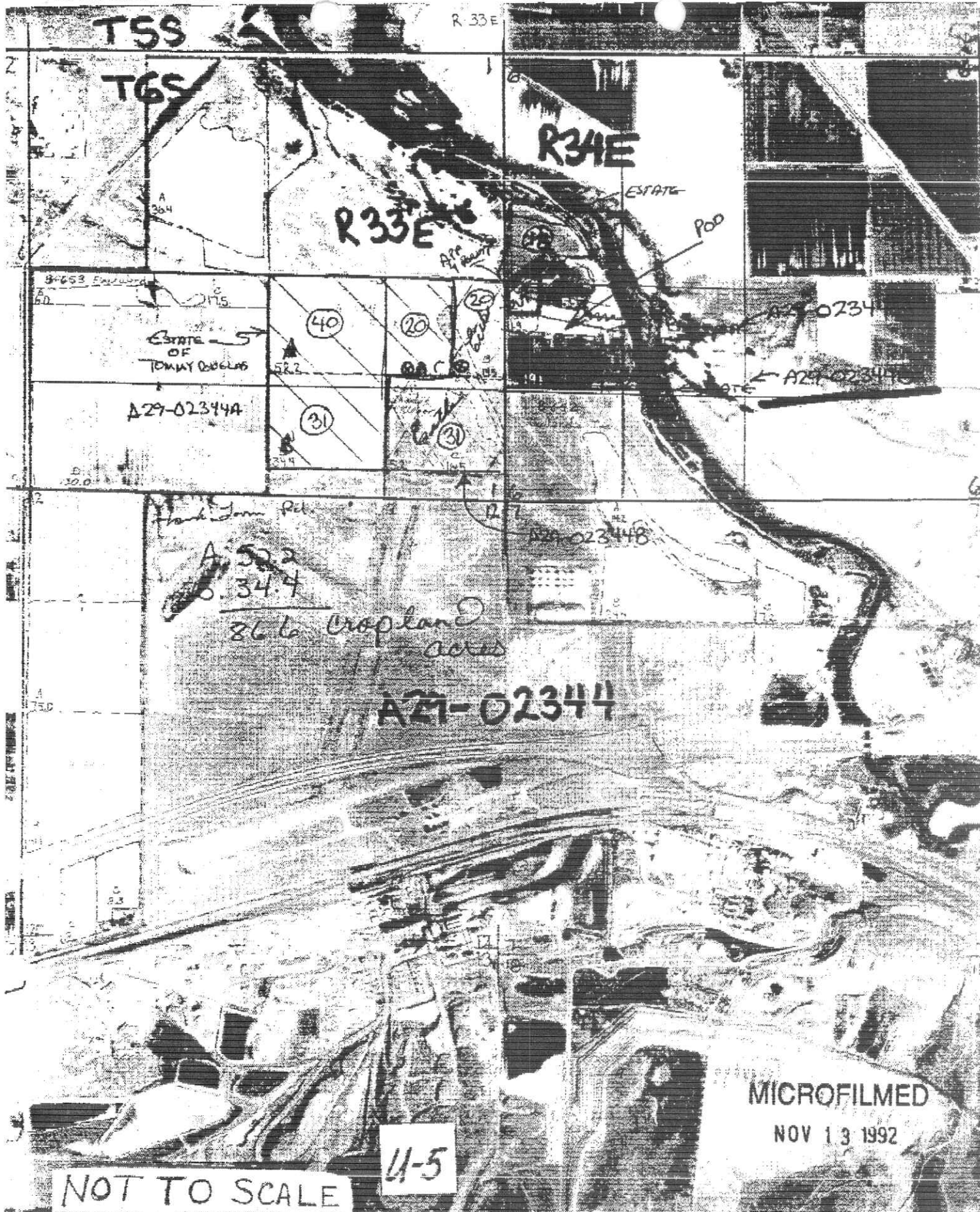
Post-It® Fax Note		7671	Date	# of pages 2
To	Sharla Curtis		From	Ac Rubenay
Co./Dept.			Co.	
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Fax #			Fax #	

NOT TO SCALE

4-5

MICROFILMED

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