

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORTRECEIVED
NOV 15 2005
Department of Water Resources

A. GENERAL INFORMATION

Permit No. 15-72231. Owner: Ralph Hughes EstatePhone No. (208) 766-4368
766-5381Current Address: P.O. Box 234, Malad City 832522. Accompanied by: Clarence HughesEXAM DATE: 10/27/2005Address: 4030 West Samaria Rd, Malad, Id 83252Phone No. (208) 766-4368
766-5381

Relationship to Permit Holder: _____

3. Source: GROUNDWATER

tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Samaria Canal Co2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
		NE	NE	SE	25	15S	35E	ONEIDA	Onsite GPS (R102717A)
									N 42°05' 21.59"
									W 112°18' 27.48"

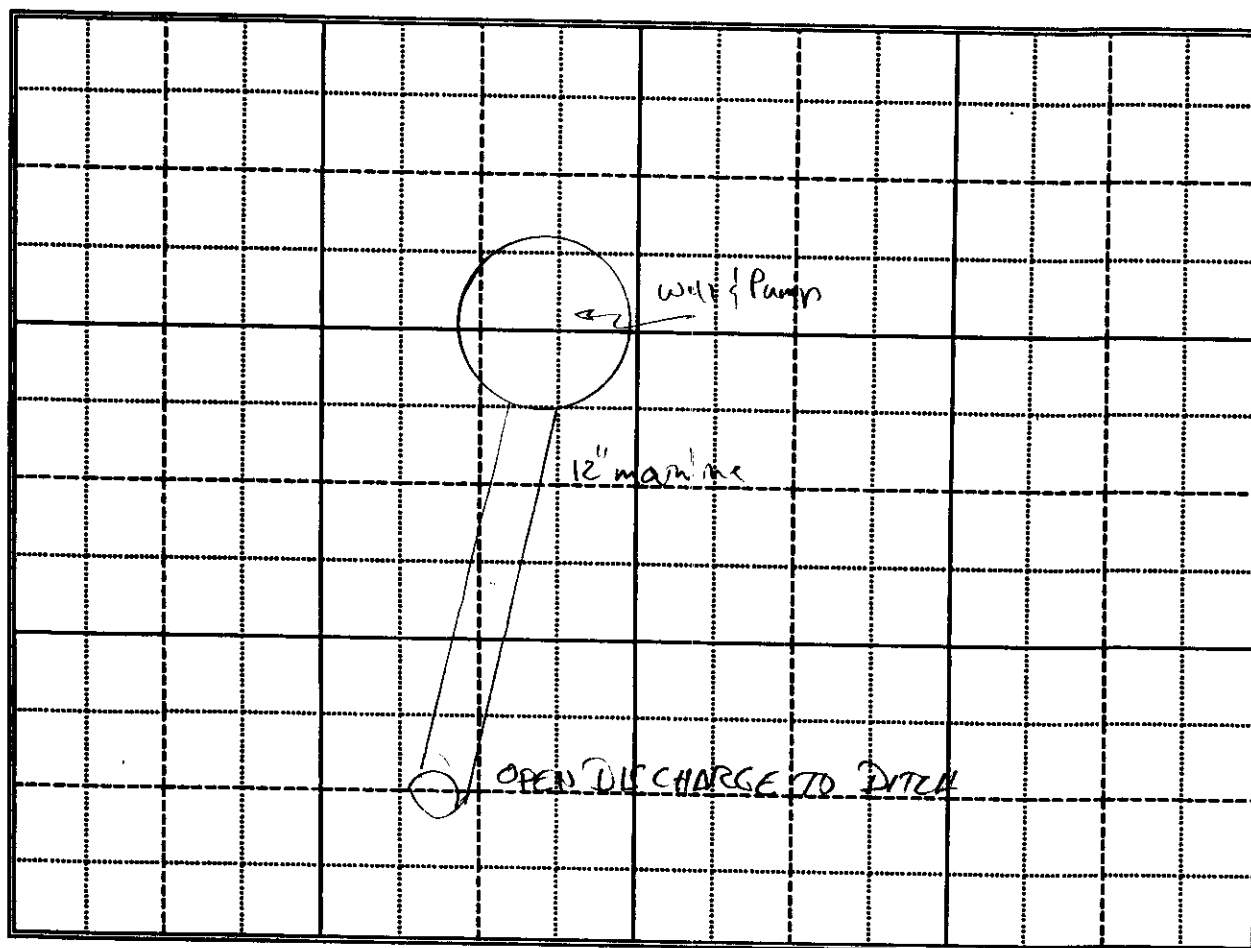
2. Place(s) of Use:

Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S	35E	24																3	3.0
		25	3			16									13				32.0
15S	36E	19									2	10	38	13					63.0
											L-3	L-4							
		30					15	36	31	12									94.0
							L-1	L-2											

192

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



Scale: 1" = _____

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

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

____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	U.S. Electric	50	D12-S313A-M D2	UNK	12"
					casting # 58895 10

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Parshall Flume					9"	

2. Measurements: ^{upstream} 0.92' on Parshall Flume ^{downstream} 0.45'

E. NARRATIVE/REMARKS/COMMENTS

Well pump mainline with open discharge to ditch for flood irrigation.

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

F. FLOW CALCULATIONS

Measured Method:

9" Parshall Flume 0.92'

Additional Computation Sheets Attached

② 0.92' head and 9" throat width $Q = 2.70 \text{ cfs}$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 (192) = 672.0$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = (2.70)(214)(1.9835) = 1146.1$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 672.0$$

2. Volume Calculations for Other Uses:

H. 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	2.70 cfs	672.0
Totals:			2.70 cfs	672.0 afa

2. Recommended Amendments

☐ Change P.D. as reflected above

☐ Add P.D. as reflected above

☒ None

☐ Change P.U. as reflected above

☐ Add P.U. as reflected above

☐ Other

I. AUTHENTICATION

Field Examiner's Name

KEITH CWILSON

Date

10/27/05

Reviewer

Date

SEAL

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7223

Exam Date: 10/27/2005

1. Current Owner: ILENE J DURBIN
MARIE HIGLEY
C/O THE RALPH HUGHES ESTATES
PO BOX 234
MALAD ID 83252
(208)766-5381
2. Accompanied by: Clarence Hughes
Phone No: (208) 766-4368 & 766-5381
Address: 4030 West Samaria Rd, Malad ID 83252
Relationship to Permit Holder: Son of Ralph Hughes & brother of Ilene Durbin and Marie Higley

3. **SOURCE****TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Samaria Canal Co
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE1/4NE1/4SE1/4 Sec. 25, Twp 15S, Rge 35E, B.M. ONEIDA County

Method of Determination: GPS & on site inspection

2.

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
15S 35E 24																3.0	3.0
15S 35E 25	3.0			16.0									13.0				32.0
15S 36E 19									2.0	10.0	38.0	13.0					63.0
										L 3	L 4						
15S 36E 30					15.0	36.0	31.0	12.0									94.0
						L 1	L 2										

Total Acres: 192

Method of Determination: On site inspection, FSA Aerial, and ArcView

3. _____ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ____X____ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ____X____ Aerial Photo Attached (required for irrigation of 10+ acres).
- ____X____ Photo of Diversion and System Attached

4.

Well or Diversion

<u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
	US ELECTRIC	50	D12-S313A-H D2	UNKNOWN	12 INCH

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

D. FLOW MEASUREMENTS

1.

Measurement

<u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
FLUME	PARSHALL	UNK	N/A	N/A	9-INCH	UNKNOWN

2. Measurements:

0.92 FEET UPSTREAM 0.45 FEET DOWNSTREAM

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: FROM CHART FOR PARSHALL FLUME Q = 2.70 CFS

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (192 \text{ AC}) \times (3.5 \text{ AFA}) = 672.0 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (2.70) \times (214) \times (1.9835) = 1146.1 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 672.0 \text{ AFA}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Well pump mainline open discharge into ditch for flood irrigation. Flow measurement of 2.70 cfs made using a 9-inch Parshall Flume (Upstream reading 0.92 feet, downstream reading 0.45 feet). Water is combined with canal water from the Samaria Canal Co.

Clarence Hughes, son of Ralph Hughes, and brother of Elene Durbin and Marie Higley, accompanied field examiner during licensing exam.

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

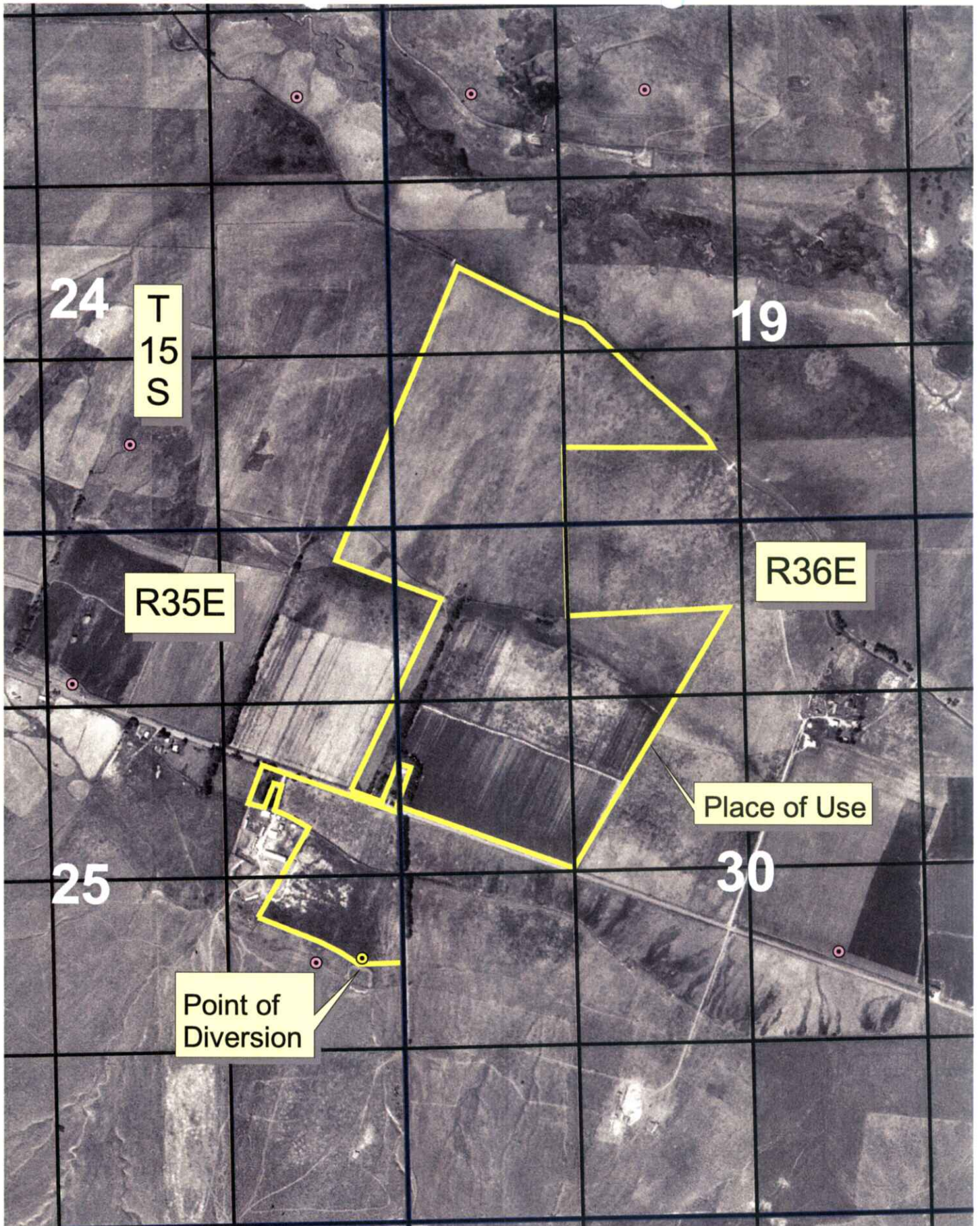
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	2.700 CFS	
<u>Totals:</u>		2.700 CFS	672.00 AF

2. Recommended Amendments____ Change P.D. as reflected above ____ Add P.D. as reflected above ☒ None

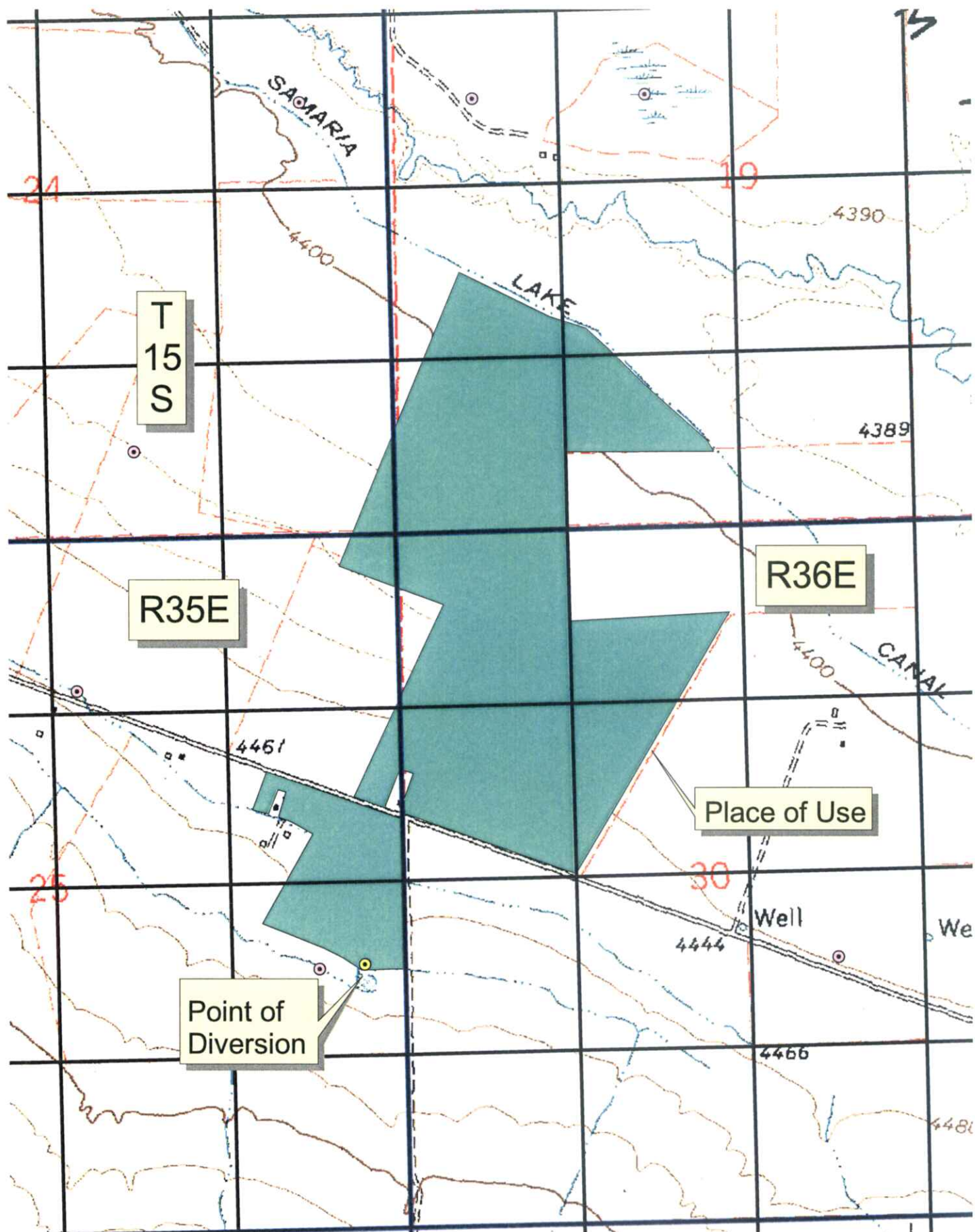
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

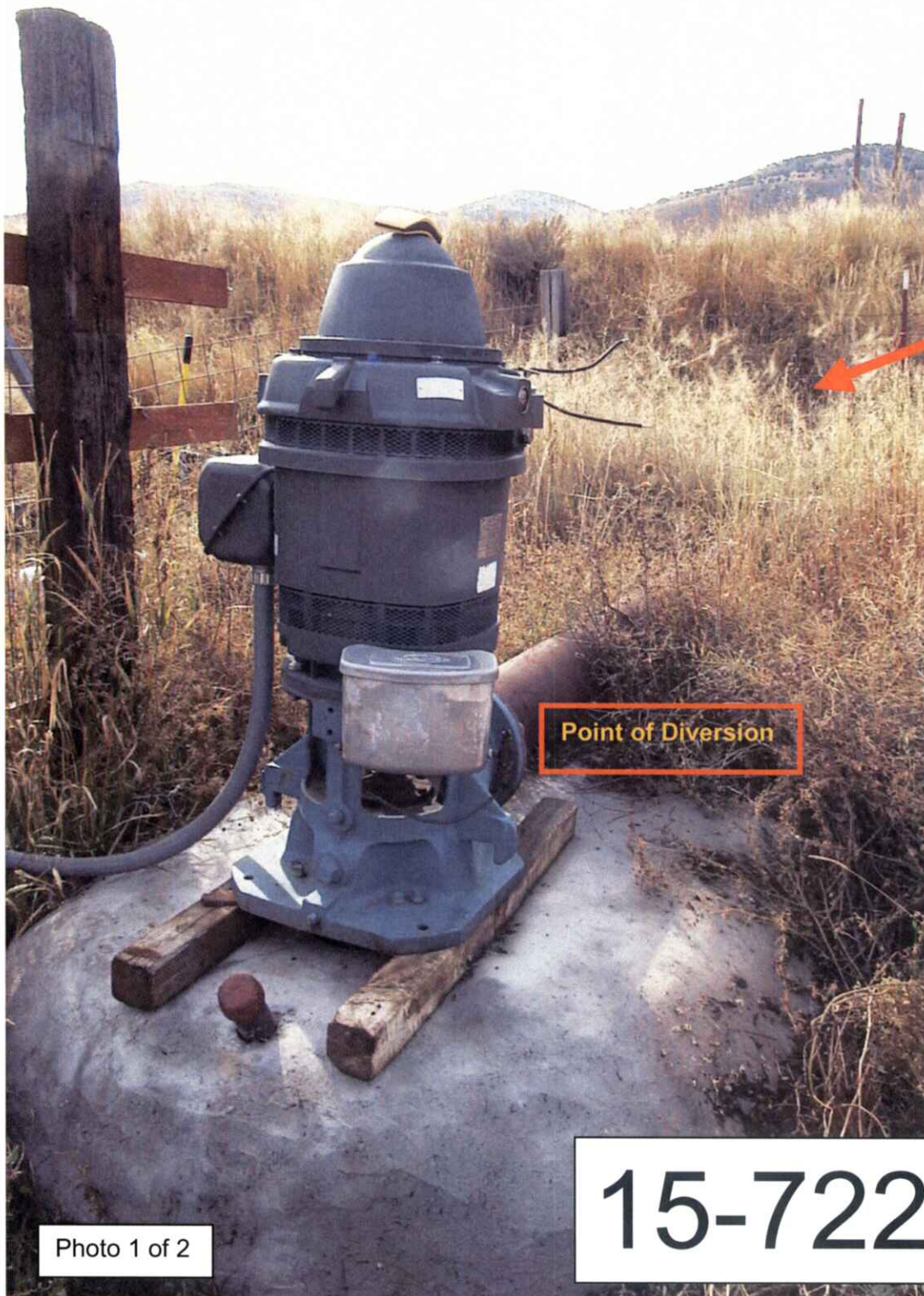
I. AUTHENTICATIONField Examiner's Name KEITH C. WILSON Date 11/04/2005

Reviewer _____ Date _____



15-7223





Ditch

Point of Diversion

15-7223

Photo 1 of 2

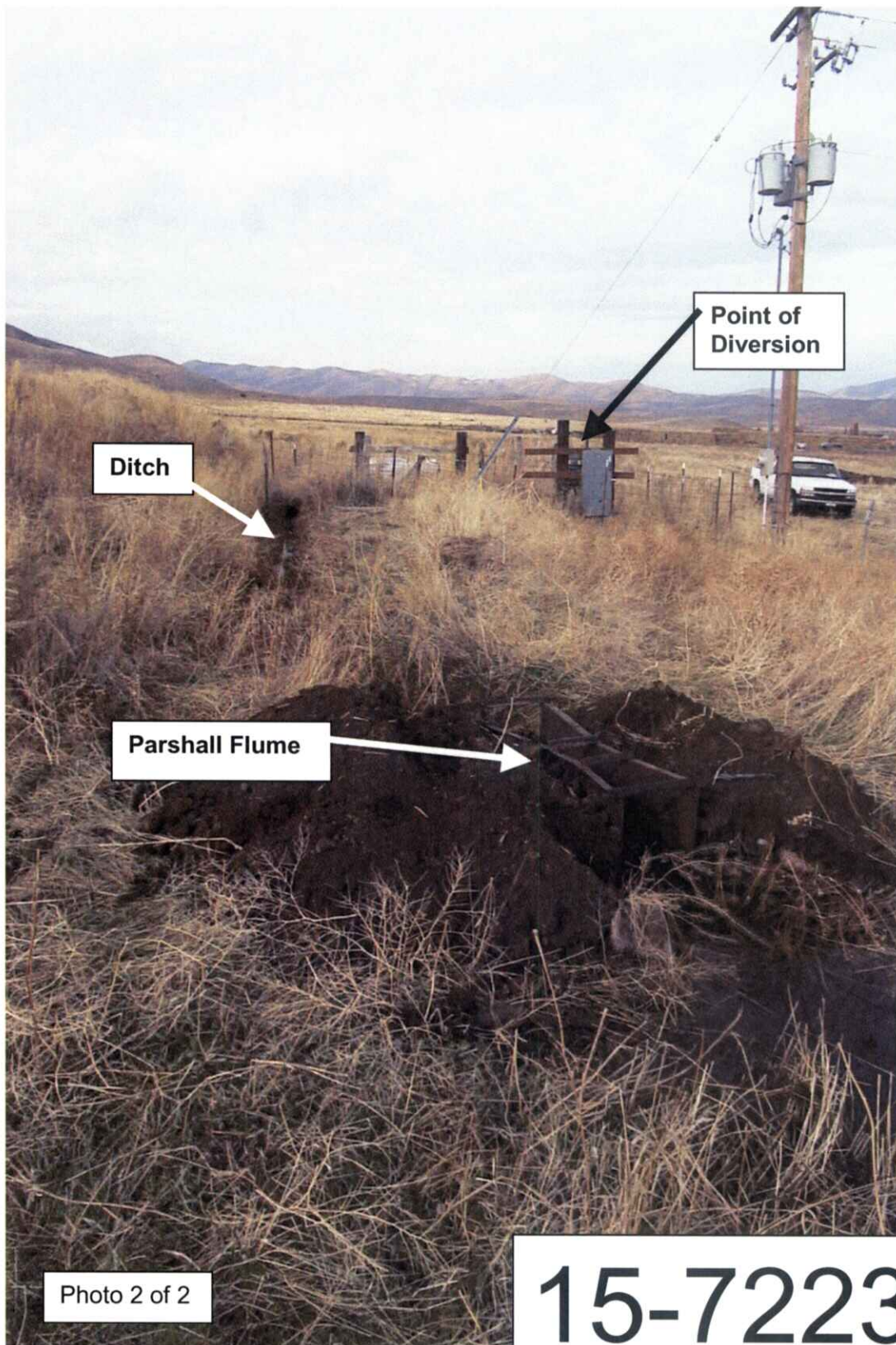


Photo 2 of 2

15-7223