

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13670

Exam Date: 5/2001

1. Current Owner: BEVAN JEPPESEN
1282 S SECOND E
REXBURG ID 83440
(208)356-9079

2. Accompanied by:

Phone No:

Address:

Relationship to Permit Holder:

Bevan Jeppesen

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

surface water rights
22-7091, 7115, 13454 & Recommendations
Rediversion only (SAME ABOVE)

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER	SW1/4NW1/4	Sec. 5,	Twp 04N,	Rge 41E, B.M.
MADISON County				
GROUND WATER	SW1/4SW1/4NW1/4	Sec. 5,	Twp 04N,	Rge 41E, B.M.
MADISON County	(Rediversion)			
GROUND WATER	SW1/4SW1/4NW1/4	Sec. 5,	Twp 04N,	Rge 41E, B.M.
MADISON County	(Injection)			

Method of Determination:

FE/GIS/GPS

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	
04N	41E	5						39.0	30.0		34.0	40.0	39.0	39.0					221.0
								L 4											
04N	41E	6	39.0			31.0									33.0		32.0		135.0
			L 1																
04N	41E	7	22.0																22.0

Total Acres: 378

Method of Determination:

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

4.

<u>Well or Diversion 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 Elec	200		unk	

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

SONIC METER
2.18 CFS

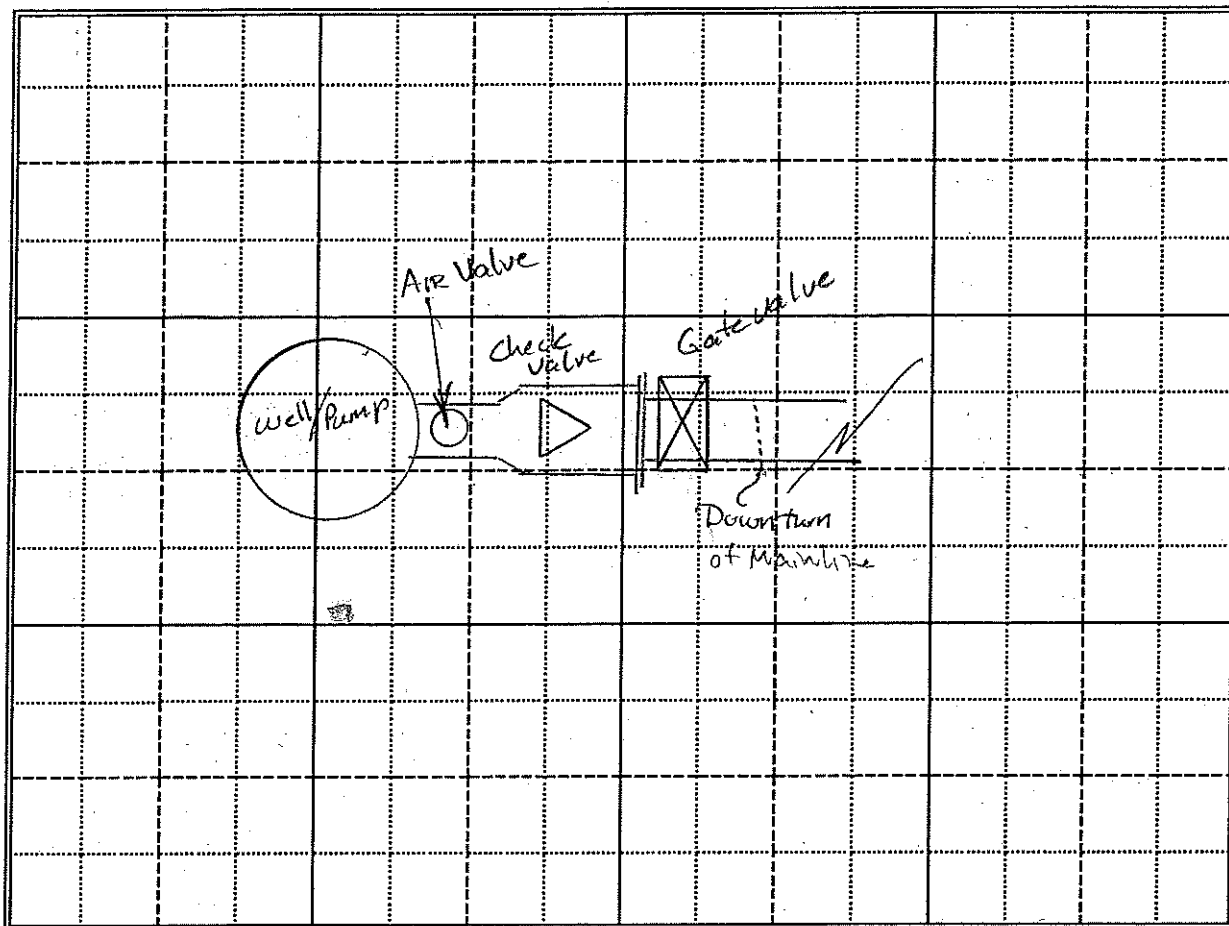
E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

SONIC METER
2.18 CFS

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

22-7528 Part 1



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	200	6377 Y04Y221R003R-1	UNK	Casting # H16 FL71BBB DF 6603

*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
UltraSonic Meter	Sonic	Fuji	FLC-S1011	7K0089TB		STATE # -240333

2. Measurements:

22-7528 Part 1

South diversion

LOG NAME: JEPPESEN ~~22-07528~~P
START: 05-16-2001 11:45
END: 05-16-2001 11:50
INTERVAL:00:01:00

05-16 11:45:00
+3.819E+0 ft/s
+1.025E+1 gal/s
+6.153E+2 gal/m
+1.371E+0 ft³/s
+TOTAL 0000000 gal
-TOTAL 0000000 gal
ABNORMAL

05-16 11:46:00
+5.455E+0 ft/s
+1.464E+1 gal/s
+8.788E+2 gal/m
+1.958E+0 ft³/s
+TOTAL 0000266 gal
-TOTAL 0000000 gal
ABNORMAL

05-16 11:47:00
+5.859E+0 ft/s
+1.573E+1 gal/s
+9.439E+2 gal/m
+2.103E+0 ft³/s
+TOTAL 0000650 gal
-TOTAL 0000000 gal
ABNORMAL

05-16 11:48:00
+5.881E+0 ft/s
+1.578E+1 gal/s
+9.473E+2 gal/m
+2.110E+0 ft³/s
+TOTAL 0000650 gal
-TOTAL 0000000 gal
ABNORMAL

05-16 11:49:00
+6.077E+0 ft/s
+1.631E+1 gal/s
+9.790E+2 gal/m
+2.181E+0 ft³/s
+TOTAL 0001295 gal
-TOTAL 0000000 gal
NORMAL

05-16 11:50:00
+6.029E+0 ft/s
+1.618E+1 gal/s
+9.712E+2 gal/m
+2.163E+0 ft³/s
+TOTAL 0002272 gal
-TOTAL 0000000 gal
NORMAL

MAXIMUM RECORDED FLOW RATE =

$Q_{\text{gpm}} = \underline{979.0 \text{ gpm}}$

$Q_{\text{cfs}} = \underline{2.18 \text{ cfs}}$

~~22-07528~~P

22-13670

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3.5 \times 378 = 1323$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 925.3$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 925.3$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

split of permit 22-7528 based on field exam.
 this split is well/pump to pivots and handlines 200 HP US Electric motor sonic meter reading at 2.18 CFS.
 Water from this well is injected into Lyons Creek and rediverted from Lyons Creek.
 overlaps with Lyons creek SRBA recommendations 22-7091, 22-7115 and 22-13454.

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	2.180 CFS	925.30 AF
<u>Totals:</u>		2.180 CFS	925.30 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. AUTHENTICATION

Field Examiner's Name Keith Wilson Date 9/2001
 Reviewer DAVE CARLSON Date 2/1/2007



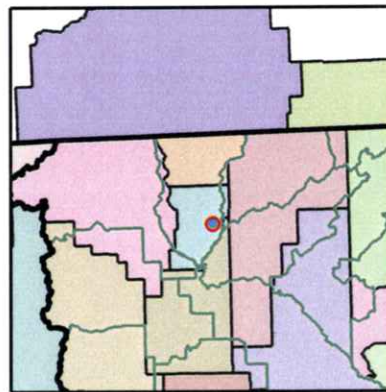
Water Right:

22-13670

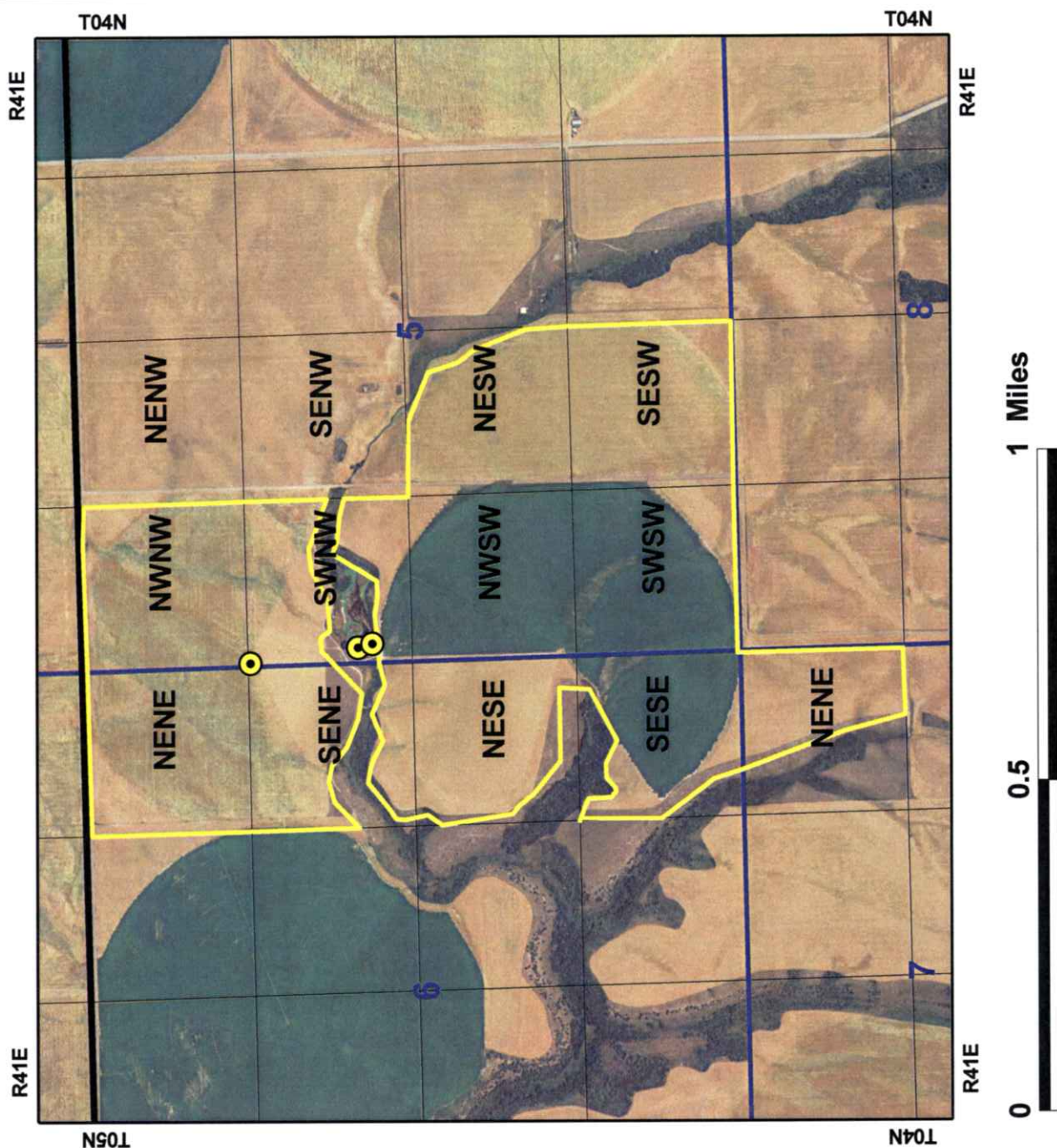
(Irrigation)

Legend

- ☐ Point of Diversion
☐ Place of Use
☐ Townships
☐ PLS Sections
☐ Quarter Quarters



**Madison County
IDWR Basin 22**



Prepared by D. Carlson
On Thursday, February 1, 2007
2004 Aerial Photography



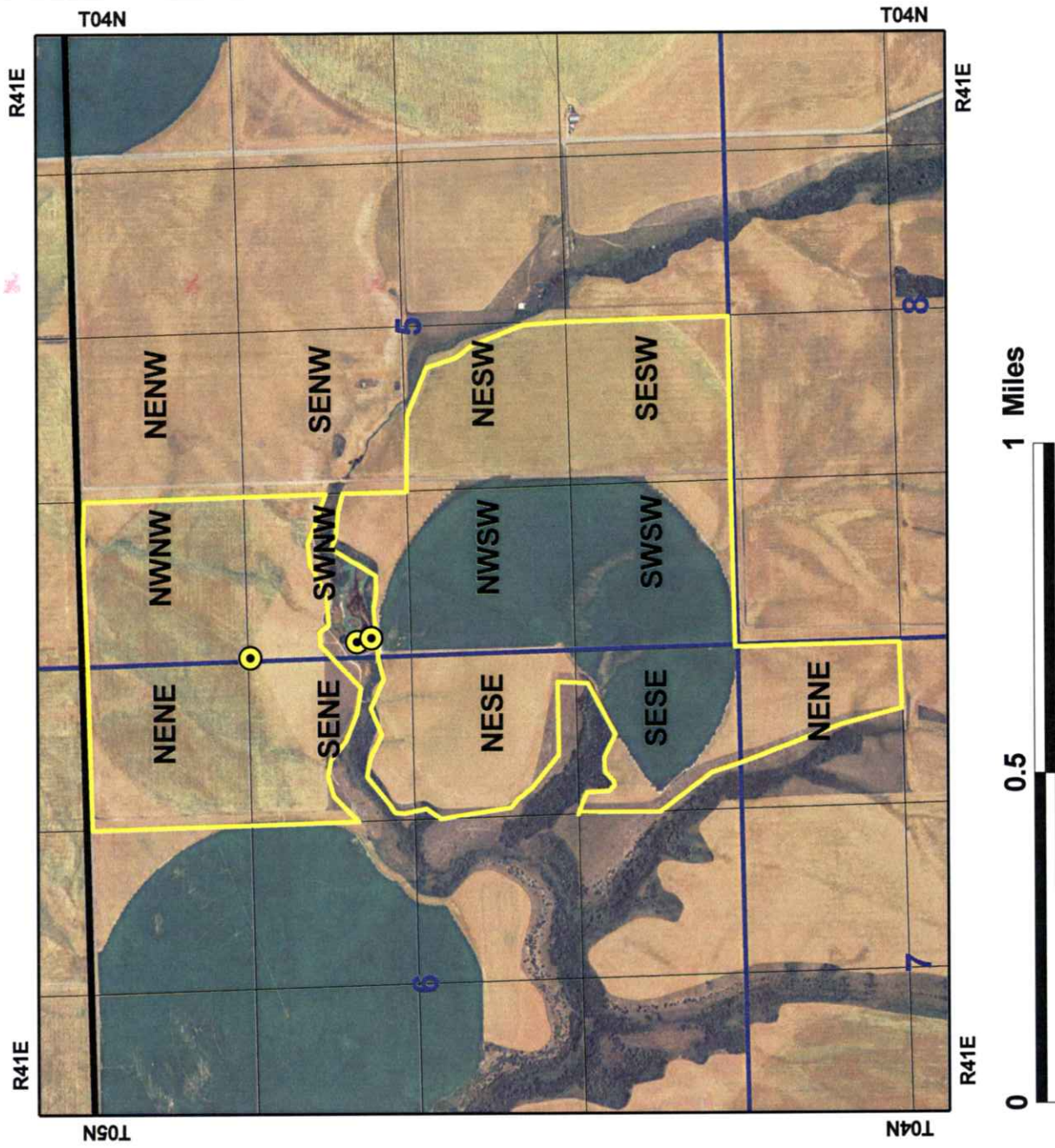
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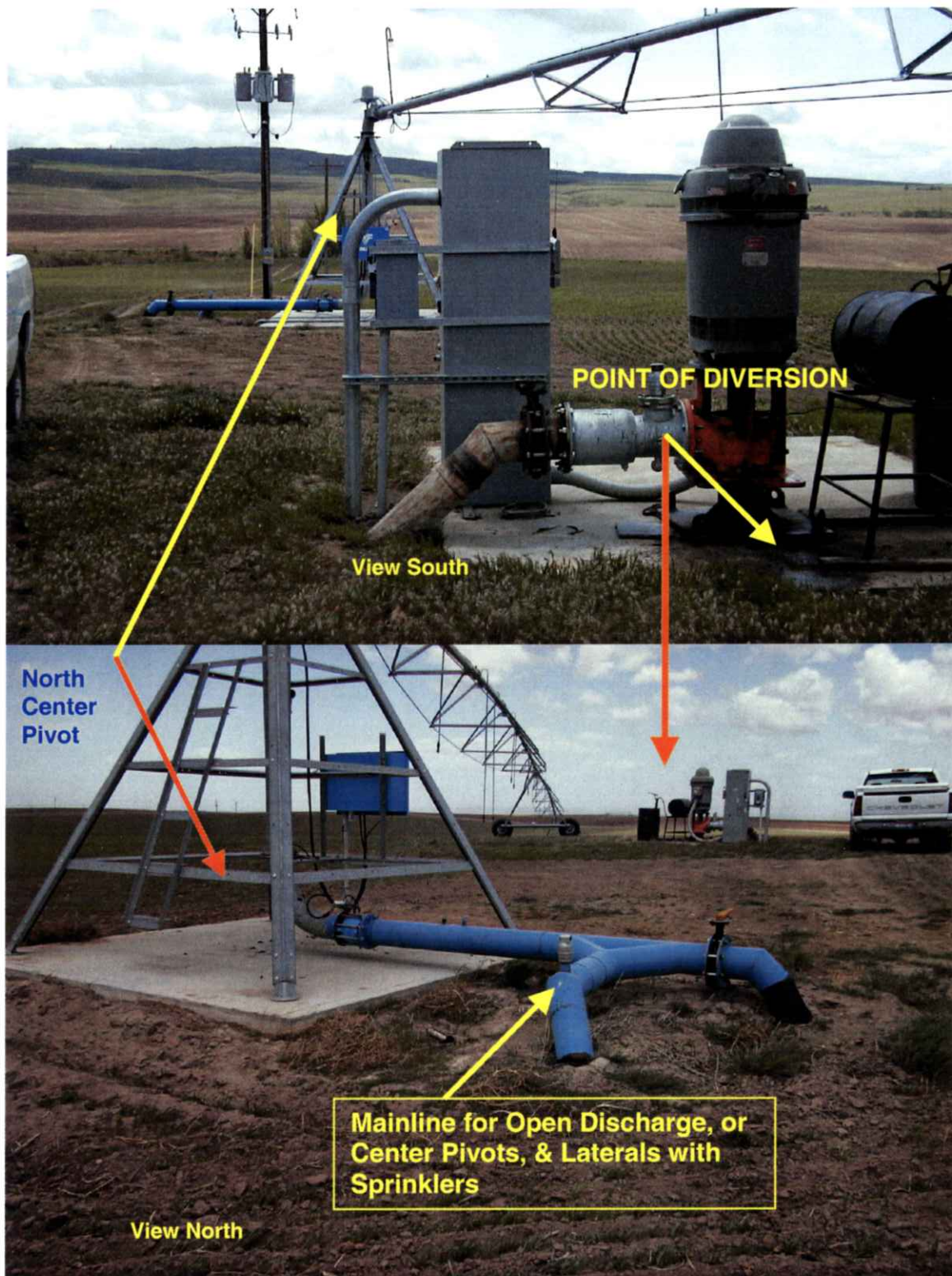
Legend

- Point of Diversion
 - ▢ Place of Use
 - ▢ Townships
 - ▢ PLS Sections
 - ▢ Quarter Quarters



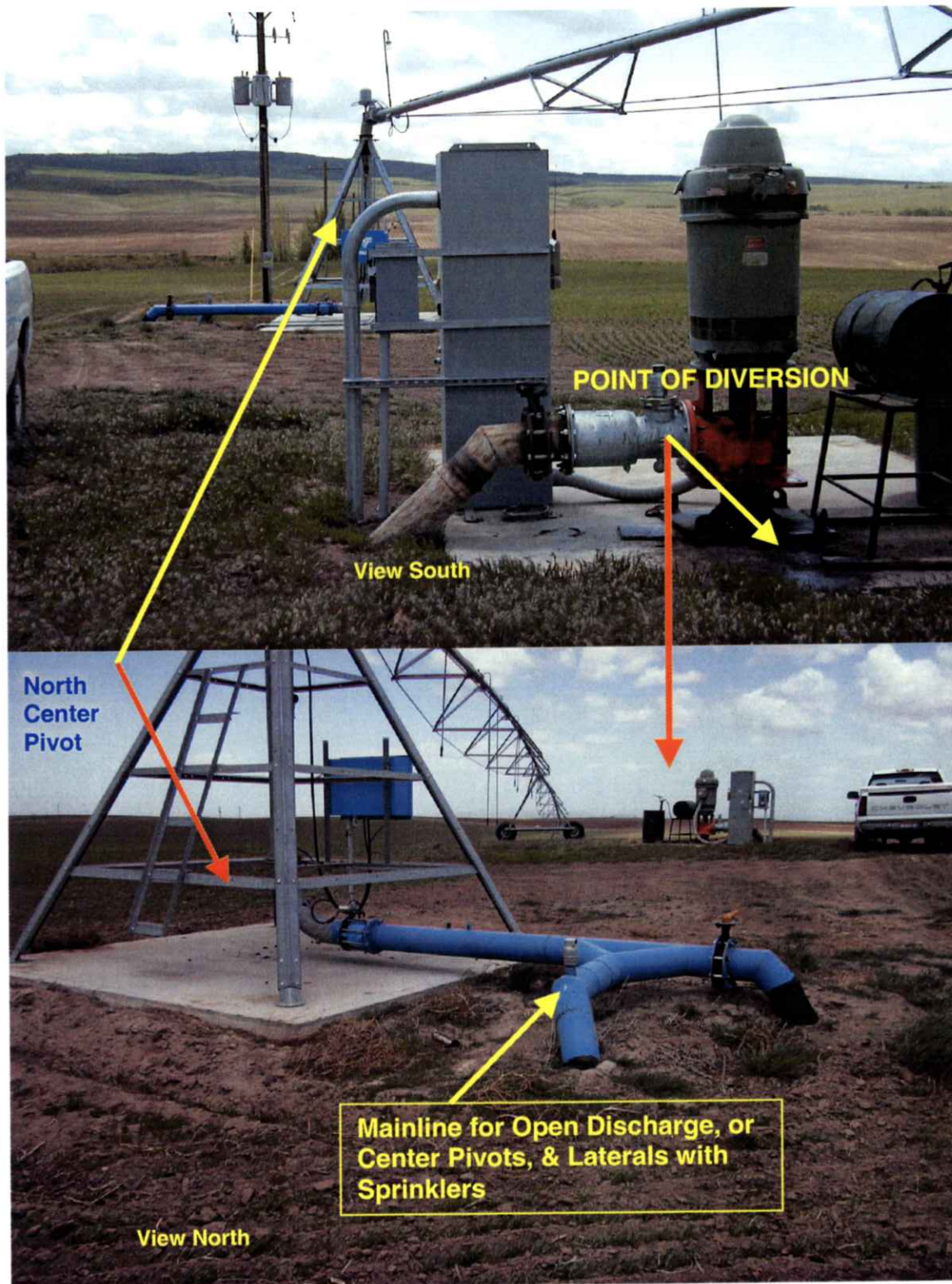
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22-07528P

22-13670



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