

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10877

Exam Date: 9/18/2015

1. Current Owner: SYLTE RANCH LLC
8626 W SYLTE RANCH RD
RATHDRUM ID 83858-6820
(208) 687-1213

2. Accompanied by: Gordon Sylte

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

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

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

GROUND WATER SE1/4SE1/4 Sec. 30, Twp 52N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS and maps. POD location at 47° 49.174, 116° 52.352 (A0015459)

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	
52N 04W 30													4.2			3.4	7.6

Total Acres: 7.6

PLACE OF USE: STOCKWATER

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
52N 04W 30													X			X	

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>
96-77-N-5	UNKNOWN				

*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>
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N/A

2. Measurements:

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

Measured Method: UNABLE TO PERFORM FLOW MEASUREMENT. FLOW WAS DETERMINED BASED UPON SPRINKLER SIZE AND NUMBER OF SECTIONS. 5/32 SIZE HEAD IS RATED AT 30 PSI AT 3.90 GPM. APPLICANT HAD 9 SECTIONS OF WHEEL LINE. $3.90 \text{ GPM} \times 9 = 35.1 \text{ GPM}$ OR 0.08 CFS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 7.6 \text{ AC} \times 3 \text{ AF} = 22.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \times 246 \times 1.9835 = 39 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 22.8 \text{ AF}$$

2. Volume Calculations for Other Uses: 20 HEAD OF MIXED STOCK X 12 GPD X 365 DAYS / 325,850 GAL/AF = 0.3 AF

G. NARRATIVE/REMARKS/COMMENTS

FIELD EXAM SHOWED APPLICANT HAD WELL DRILLED IN 1977 THAT HAD UNKNOWN PUMP SIZE. APPLICANT WAS RUNNING 9 SECTIONS OF WHEEL LINE WITH 5/32 HEADS AT 30 PSI. FIELD EXAMINER WAS UNABLE TO FIND PROPER PLACE TO CONDUCT FLOW MEASUREMENT. BASED UPON NUMBER AND SIZE OF HEADS, APPLICANT WAS RUNNING AT 35.1 GPM OR 0.08 CFS. LICENSE WILL BE ISSUED FOR 7.6 ACRES AND NOT 10 BECAUSE THERE IS NO DOCUMENTATION ALLOWING THE APPLICANT TO IRRIGATE ON RAILROAD PROPERTY. APPLICANT DOES HAVE AGREEMENT THAT ALLOWS FOR THE THE IRRIGATION OF CITY PROPERTY WHICH WILL BE LICENSED FOR 7.6 ACRES WITH AN ANNUAL VOLUME OF 22.8 AF. PERMIT WAS ISSUED FOR 0.08 CFS FOR STOCKWATER BUT WILL BE REDUCED TO A DIVERSION RATE OF 0.02 CFS FOR 20 HEAD OF MIXED STOCK WHICH WERE GRAZING AT A DIFFERENT LOCATION AT TIME OF 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	03/15 to 11/15	0.080 CFS	22.80 AF
STOCKWATER	01/01 to 12/31	0.020 CFS	0.30 AF
<u>Totals:</u>		0.080 CFS	23.10 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

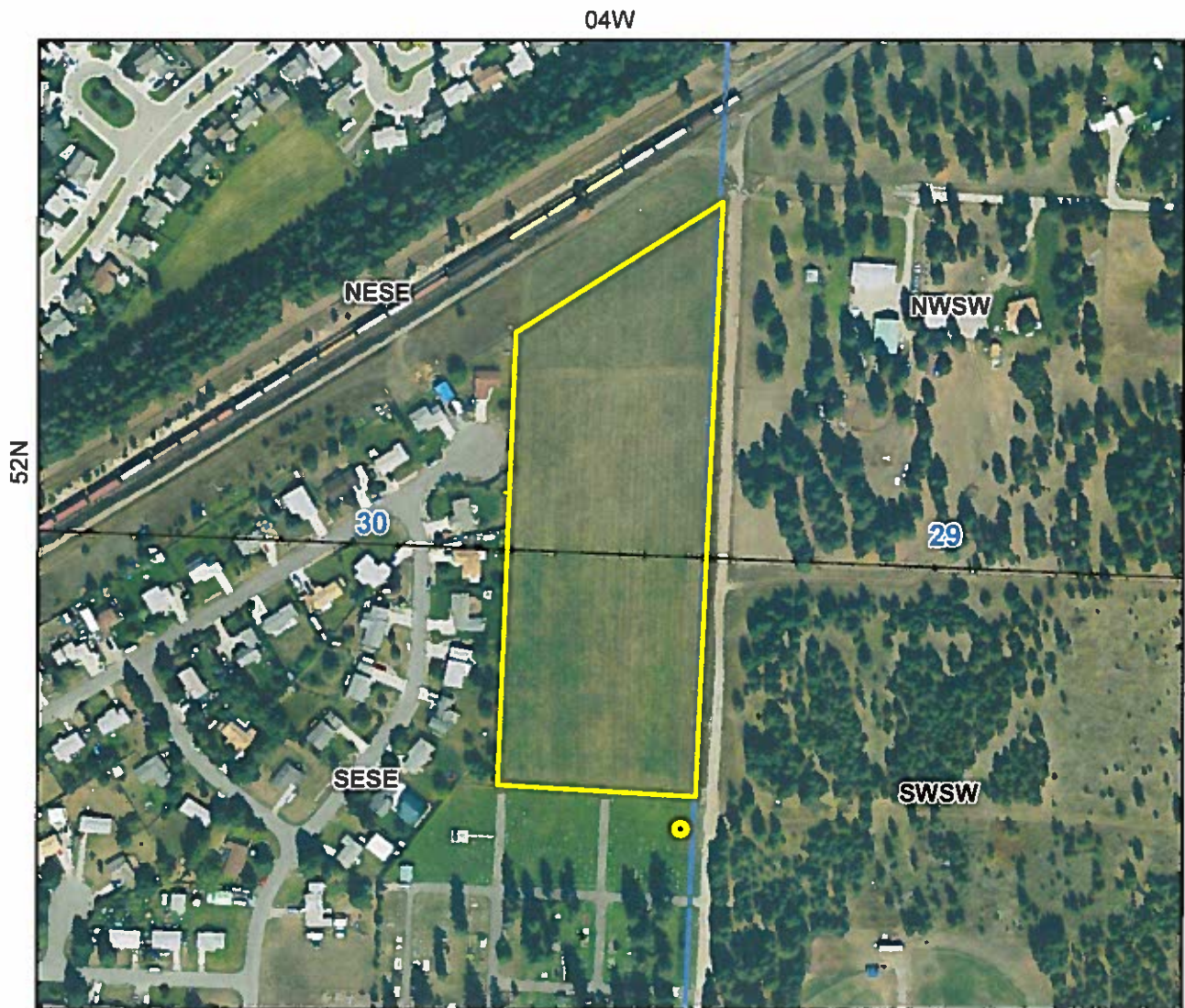
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam F. Fowler Date 1-14-2016

Reviewer [Signature] Date 1-20-2016

State of Idaho
Department of Water Resources
Water Right License
95-10877



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.0375 0.075 0.15 Miles





PERFORMANCE DATA

35A-TNT/35A-PJ

35A-TNT 35A-PJ

3/4" Full or Part Circle,
Brass Impact Sprinklers

Bearing: 3/4" Male NPT, Brass
Trajectory Angle: 27°
Operating Range: 30-60 psi
Flow Rate: 3.9-7.8 GPM
Radius: 42-51 ft.

FEATURES

- "Precision jet" (P.J) arm (35A-PJ)
- Standard spoon style arm also available (35A-TNT)
- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- ADJ-3 Nozzles include integral break-up pin
- DAN-3 Nozzles include break-up pin and distance flap
- Full or Part Circle operation
- Two-year warranty

BENEFITS

- PJ arm reduces side splash
- Many options provide design and application flexibility
- Corrosion and grit resistant
- Built to last

Brass Straight Bore Nozzle
(ADJN-3) or (DAN-3) (Stream Height: 9 ft.)

PSI @ Nozzle	NOZZLE SIZE					
	5/32"		11/64"		3/16"	
	Rad.	GPM	Rad.	GPM	Rad.	GPM
30	42	3.90	43	4.60	44	5.50
35	43	4.20	44	5.00	46	6.00
40	44	4.50	45	5.40	47	6.40
45	44	4.70	46	5.70	48	6.80
50	45	5.00	47	6.00	49	7.20
55	45	5.20	48	6.30	50	7.50
60	46	5.40	48	6.60	51	7.80

PART NUMBERS AND ORDERING INFORMATION

Ordering Example

To order a 35A-TNT sprinkler with a 3/16" Brass Straight Bore Adjustable Nozzle the part number would be:

MAKE YOUR SPRINKLER
CHOICE FROM CHART 1

A38820-

CHOOSE NOZZLE SIZE(S)
FROM CHART 2

12

ADD THEM TOGETHER TO
CREATE THE PART NUMBER

= A38820-12

Chart 1: 35A-TNT

PART NUMBER:
FIRST HALF

SPRINKLER ONLY

Sprinkler without
Nozzle A39200

SPRINKLER WITH SINGLE NOZZLE INSTALLED

Sprinkler with
ADJN-3 A38820-

Sprinkler with
KHN-3 A38810-

Chart 2

PART NUMBER: SECOND HALF

NOZZLE

Brass Straight Bore
Adjustable Nozzle (100328-) ADJN-3 10 11 12

Brass Adjustable
Do-All Nozzle (100332-) DAN-3 10 - 12

Brass Keyhole
Nozzle (106353-) KHN-3 10 11 12

Bold nozzle size numbers denote the most common nozzle choices.

Chart 1: 35A-PJ

PART NUMBER:
FIRST HALF

SPRINKLER WITH NOZZLE INSTALLED

Sprinkler with
ADJN-3 A40613-

Sprinkler with
DAN-3 A40614-

USE TYPEWRITER OR
BALL POINT PEN

State of Idaho
Department of Water Resources

ENT'D

WELL DRILLER'S REPORT

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.

RECEIVED
MAY 4 1977
Department of Water Resources
Northern District Office

1. WELL OWNER
Name SYLITE RANCH INC
Address RT 1 BOX 670
RATHDRUM IDAHO
Owner's Permit No. _____

7. WATER LEVEL
Static water level 216 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

2. NATURE OF WORK 96-77-N-5
☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

8. WELL TEST DATA
☐ Pump ☒ Bailer ☐ Other
Discharge G.P.M. 33 Draw Down 0 Hours Pumped 4

3. PROPOSED USE
☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water Yes
	From	To		
8"	0	1	TOP SOIL	
	1	19	LARGE GRAVEL	
	19	28	MEDIUM "	
	28	31	BOULDER	
	31	39	MEDIUM GRAVEL	
	39	64	BOULDERS	
	64	71	BOULDERS	
	71	136	CLAY + GRAVEL	
	136	154	SAND GRAVEL + CLAY	
	154	167	BOULDERS + CLAY	
	167	228	SAND GRAVEL + CLAY	X
	228	231	DECOMPOSED GRANITE	
	231	272	SAND GRAVEL + CLAY	X
	272	286	SAND + GRAVEL	X
	286	296	SAND VERY LITTLE WATER	X

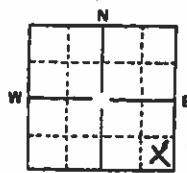
4. METHOD DRILLED
☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION
Diameter of hole 8" inches Total depth 296 feet
Casing schedule: ☐ Steel ☐ Concrete
Thickness _____ Diameter _____ From _____ To _____
380 inches 8 inches 1 feet 296 feet
380 inches 8 inches 256 feet 296 feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ feet
_____ inches _____ inches _____ feet _____ 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 1 1/2 inches by 4/8 inches
Number _____ From _____ To _____
42 perforations 271 feet 291 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 _____
Placed from _____ feet to _____ feet

Surface seal depth 20 Material used in seal ☐ Cement grout
☒ Pudding clay ☒ Well cuttings
Sealing procedure used ☐ Shurry pit ☒ Temporary surface casing
☐ Overbore to seal depth

6. LOCATION OF WELL 95
Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____

County KOOTENAI
SE 1/4 SE 1/4 Sec. 30 T 83 N 1/4 R 4 E

10. Work started APRIL finished MAY 3-77

11. DRILLERS CERTIFICATION
Firm Name BROAD X WATER WELLS Firm No. 28
Address RATHDRUM IDA Date 5-3-77
Signed by (Firm Official) Lindson Cordon
and
(Operator) Lindson Cordon

CD3719

OFFICE USE ONLY
Inspected by R G H
Twp 52N Rge 4W Sec 30
1/4 SE 1/4 SE 1/4



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