

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW of FIELD REPORT

A. GENERAL INFORMATIONPermit No: 57-7577

Exam Date: 04/09/13

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? Y X N
- Irrigation of 5 acres or less
 - Storage of up to 14.6 AF for stockwater purposes only
 - Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - Other : Field Exam Conducted by Lori Graves 11/20/1998

2. Current Owner: Name: Donald Holloway
Owner of Record Correct? Y X N
Address of Record Correct? Y X N
If No: Address RAUSCH FARMS, LLC
C/O RAUSCH, KELLY
PO BOX 15392
SCOTTSDALE, AZ 85267

3. Beneficial Use Fees have been paid: X Y N Receipt No: C034626

4. **SOURCE** **TRIBUTARY**

Ground Water

Method of Determination: Field Exam

Change in Source: Y X N**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
2-10416	Snake River	Irrigation	Permit
2-64	Snake River	Irrigation	Decreed
2-65	Snake River	Irrigation	Decreed

Comments: 2-64, 2-65, & 2-10416 LPOU Of Gem Irrigation District. 57-10306 stockwater to SE of POU. 57-10305 domestic to SE of POU. 57-10887 stockwater to north of POU. 57-10337 domestic/stockwater to NE of POU. 57-4100 north of POU.

Field Exam indicates that Gem Irrigation District Water is used on this acreage.

2. Other water rights with the same point of diversion: X NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments:

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

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Ground Water			SE	SE	15	02N	05W	B.M.	Owyhee
								B.M.	
								B.M.	

Method of Determination: Field Exam and Well Log

Change in POD? X N Amendment Required? N 2. **PLACE OF USE:** Use: Irrigation

TW P	RGE	Sec	NE				NW				SW				SE				Total s
			NE	N W	S W	SE	NE	N W	SW	SE	NE	N W	S W	SE	NE	N W	S W	SE	
02N	05W	15																22.0	22.0
		Lot #																	
Total Acres =																		22.0	

Method of Determination: Field Exam. Less than permitted because of low well water yield.

Change in POU? Y N Amendment Required? N N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

 X Aerial Photo Attached (required for irrigation of 10+ acres). X 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
WellID 308282		7.5		Goulds	Model 70L

*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

2. Measurements: Pump Curve Supplied by Riverside Inc.

Upon review, Field Examiner read pump curve at 300 instead of 360. See attached theoretical calculations sheet.

E. FLOW CALCULATIONS Additional Computation Sheets Attached

Measured Method:

0.02 cfs = 1 inch per acre (IDWR standard) 22.0 acres(0.02 cfs) = 0.44 cfs at 1 inch per acre

Per pump curve: 0.10

Measurement = 0.10 cfs**Permit allowed = 1.5 cfs****License recommend for 0.10 cfs.**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 22 \times 4.5 = 99$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \times 246 \times 1.9835 = 49$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 49$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Irrigated field visible on GIS Imagery.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

- 01G -Prior to the diversion of water under this permit a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department. Drop at licensing.
- Supplemental to Gem Irrigation District Water.

Have conditions of permit approval been met? ☒ X Yes ☐ No**I. 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	0.10 CFS	49 AF
<u>Totals:</u>		0.10 CFS	49 AF

2. Recommended Amendments

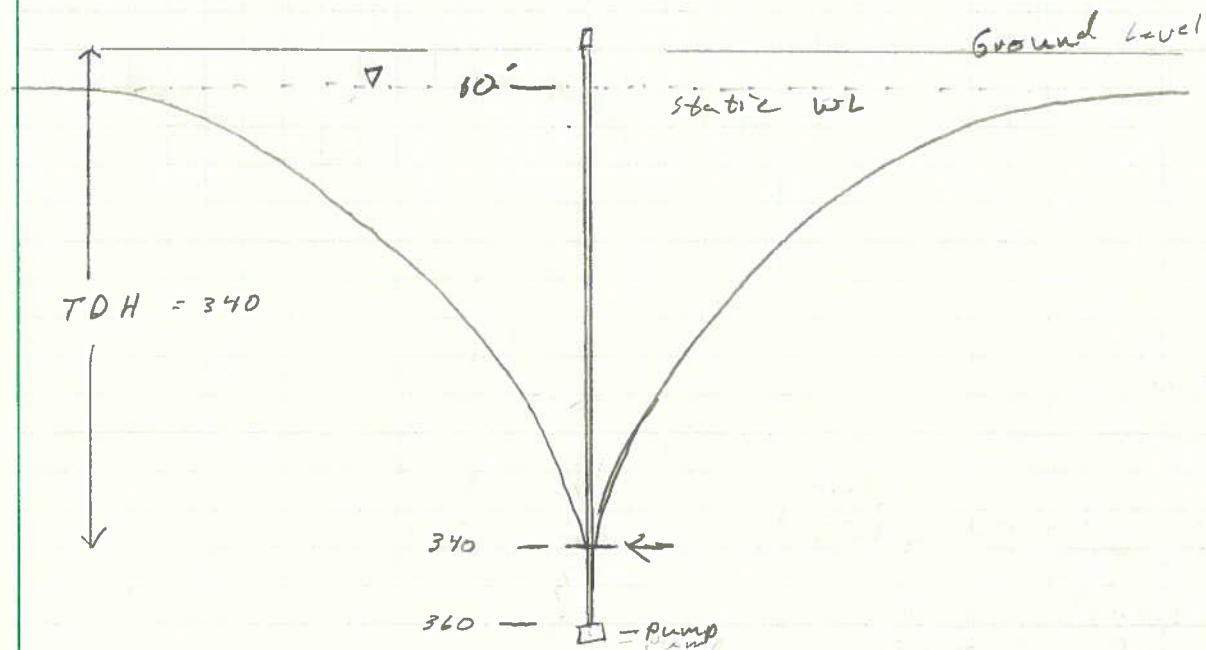
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ X None☒ X Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ None

Other: < >

J. AUTHENTICATIONField Examiner's Name Danielle Dena Turner Date 6/5/01/13

Reviewer _____ Date _____

57-7577 - Theoretical Calculations



① Theoretical

$$Q = \frac{(8.8)(\text{efficiency})(HP)}{(\text{Depth to H}_2\text{O level}) + [(2.31)(\text{PSI})]}$$

$$Q = \frac{(8.8)(.7)(7.5)}{340 + [(50)(2.31)]} = \frac{49.5}{455.5} = 0.10 \text{ cfs}$$

Ex: Efficiency = 70% = 0.7
 Hp = 7.5 per Field Exam
 *Depth to Water = 340
 per well log
 PSI = 50
 per Well Inspection Form

② Well log:

$$100 \text{ gpm} \approx 0.22 \text{ cfs} \rightarrow \text{do not use as we don't know parameters of system when pumped.}$$

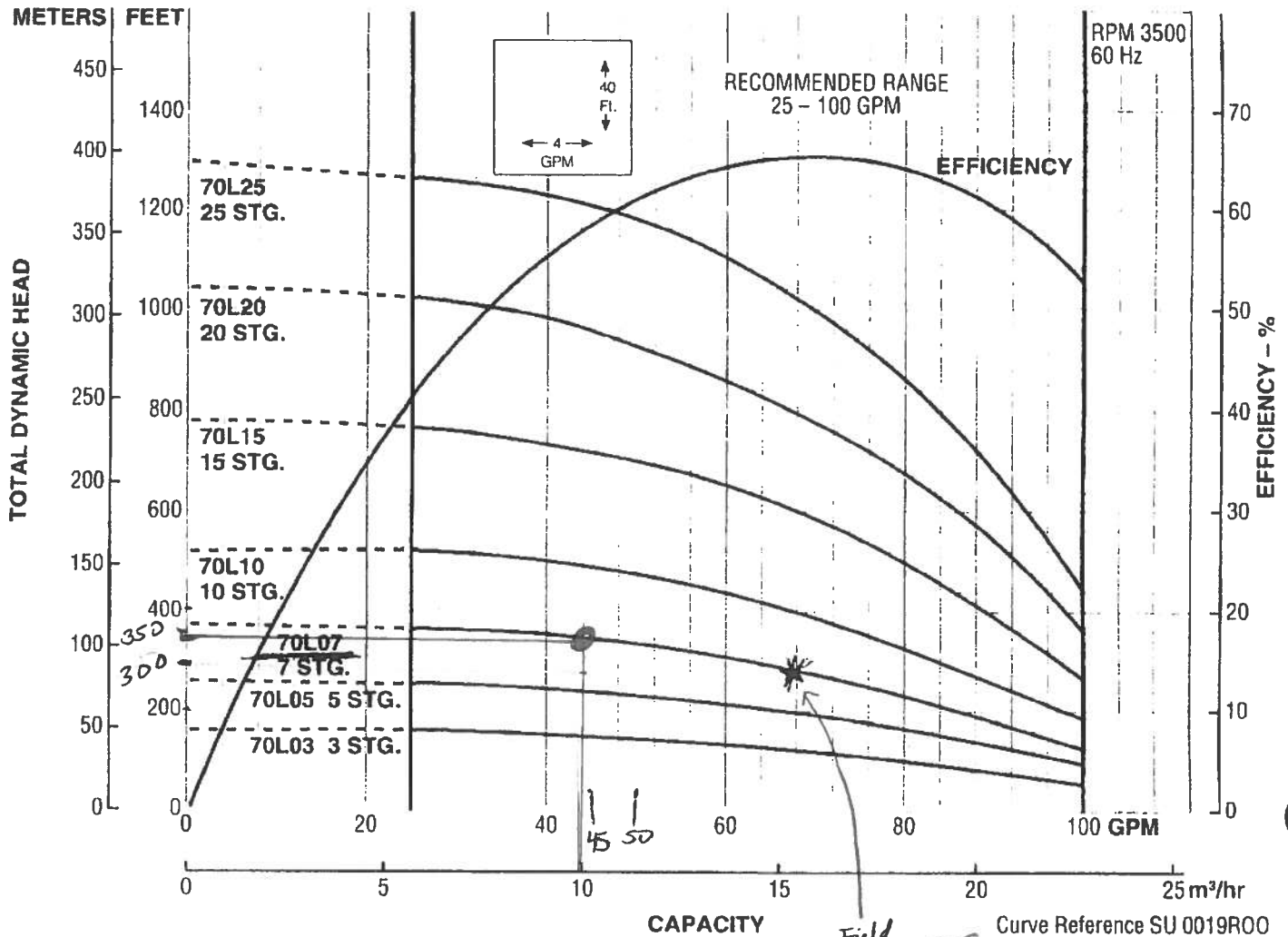
③ Pump Curve = 0.10 cfs

44 gpm
 10 m³/hr

* Depth to Water level is not the pump depth or static water level, rather it is the stabilized water level when pumping.

Model 70L

GOULDS PUMPS, INC.

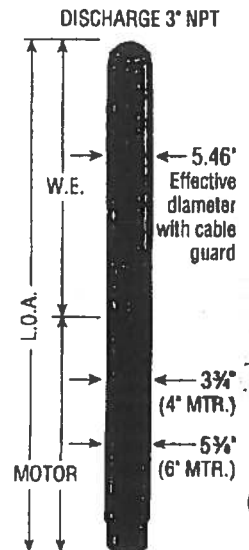


1.6 f/s = 101.94 m³/h

DIMENSIONS AND WEIGHTS

HP Stages	W.E. Order No.	Motor Order No.	PH	Motor Volts	Motor Length	W.E. Length	L.O.A.	Wt. (lbs.)
3	3	70L03	1	230	23.5	22.6	46.1	65
			3	200				
			3	230				
			3	460	20.6	22.6	43.2	65
			3	575				
5	5	70L05	1	230	29.5	25.8	55.3	81
			3	200				
			3	230				
			3	460	23.5	25.8	49.3	81
			3	575				
7.5	7	70L07	1	230	28.0	29.0	57.0	155
			3	200				
			3	230				
			3	460	24.2	29.0	53.2	130
			3	575				

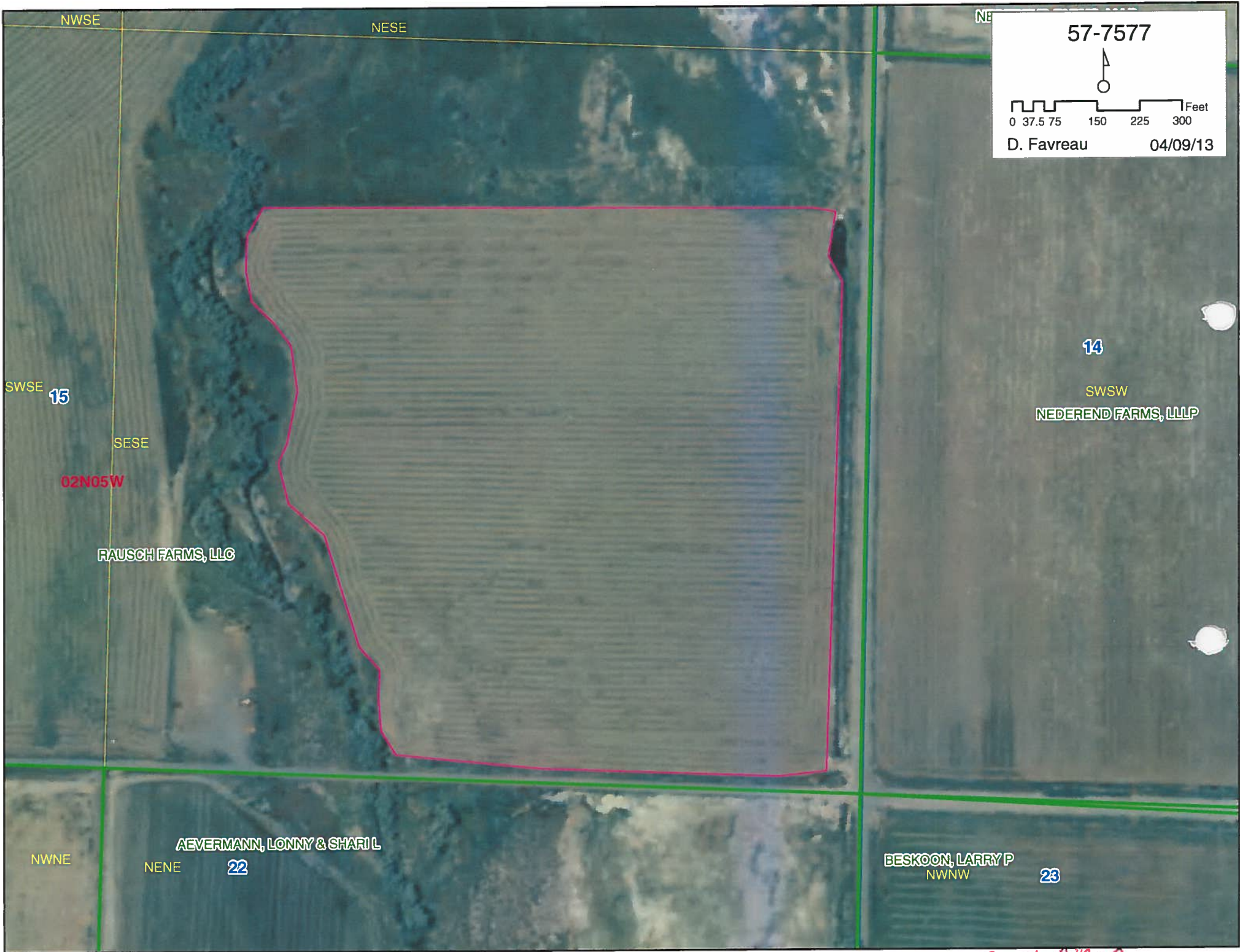
HP Stages	W.E. Order No.	Motor Order No.	PH	Motor Volts	Motor Length	W.E. Length	L.O.A.	Wt. (lbs.)
10	10	70L10	1	230	30.6	33.5	64.1	177
			3	200				
			3	230				
			3	460	25.5	33.5	59.0	147
			3	575				
15	15	70L15	1	230	33.1	41.3	74.4	201
			3	200				
			3	230				
			3	460	28.0	41.3	69.3	175
			3	575				
20	20	70L20	1	230	30.6	45.0	75.6	201
			3	200				
			3	230				
			3	460	30.6	45.0	75.6	201
			3	575				
25	25	70L25	1	230	33.2	56.6	89.8	225
			3	200				
			3	230				
			3	460	33.2	56.6	89.8	225
			3	575				



(All dimensions are in inches and weights in lbs. Do not use for construction purposes.)

*Non-stock motors have a six (6) week lead time.

Water end and motor must be ordered separately and are packaged separately.

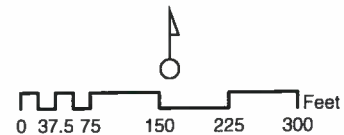


NWSE

NESE

NE

57-7577



D. Favreau

04/09/13

SWSE 15

SESE

02N05W

RAUSCH FARMS, LLC

14

SWSW

NEDEREND FARMS, LLLP

NWNE

NENE

22

AEVERMANN, LONNY & SHARIL

BESKON, LARRY P

NWNW

23

2004 11/24/13

Process	Basin Sequence	Draft	Owner	Source	POD/POU	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
Water Permit	2-10416	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Water Permit	57-7577	N	HOLLOWAY, DONALD W	GROUND WATER	POD																X	0
Water Permit	57-7577	N	HOLLOWAY, DONALD W	GROUND WATER	POU				25.0									20.0			30.0	75
Water Right	2-64	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Water Right	2-65	N	GEM IRRIGATION DISTRICT	SNAKE RIVER	POU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0
Water Right	57-10887	N	THE FRANK VANNOY FAMILY TRUST	UNNAMED STREAM	POD	X																0
Water Right	57-10887	N	THE FRANK VANNOY FAMILY TRUST	UNNAMED STREAM	POU	X																0
Water Right	57-2252	N	LANDA, JULIAN	GROUND WATER	POD											X						0
Water Right	57-2252	N	LANDA, JULIAN	GROUND WATER	POU					38.0	24.0	38.0			33.0							133
Water Right	57-4100	N	HOLLOWAY, DONALD W; HOLLOWAY, LOU	SPRING	POD													X				0
Water Right	57-4100	N	HOLLOWAY, DONALD W; HOLLOWAY, LOU	SPRING	POU		16.0	40.0	10.0				40.0					10.0	30.0			146