

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31639

Exam Date: 9/28/2012

1. Current Owner: J R SIMPLOT CO
C/O TERRY UHLING
999 MAIN ST STE 1300
BOISE ID 83707
(208)336-2110
2. Accompanied by: Danny Stimpson
Phone No: 208-459-0777 (business number)
Address: 223 Rodeo Ave
Relationship to Permit Holder: Farm Supervisor

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SE1/4NW1/4

Sec. 1, Twp 03N, Rge 05W, B.M.

CANYON County

Method of Determination: Field exam and GPS The found POD was in a different tract than permitted. Also the permit carried two PODs in Section 10 that have nothing to do with this permit. They are associated with 63-31640.

2. PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
03N	05W	1	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
				38.0	16.0		7.0			15.0									76.0
				L 2			L 3												

Total Acres: 76

Method of Determination: Field exam and Arc Map. I found that there was a shift in the POU. The actual irrigated POU now includes NENW which was not a part of the permitted POU. Overall the total irrigated acreage is less than permitted.

3. X 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

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make
		60	6P1054988	

Pump Serial No. or Discharge Size

13 STAGE 9RCLC

Information provided by Layne Pump.

D. FLOW MEASUREMENTS

1. **Measurement**
Equipment Type Make Model No. Serial No. Size Calib. Date
 No measurement made. Motor and pump had been removed. Measurement data provided by Layne Pump.

2. Measurements:

Layne Pump indicated pumping rate = 300 gpm or 0.67 cfs.

E. FLOW CALCULATIONS

Measured Method:

The theoretical calculation shown here is from the attached worksheet dated Oct 9, 2012 titled "63-31639 bases for rate recommendation". See also Oct 10, 2012 analysis by John Westra.

X Additional Computation Sheets Attached

$$\frac{(\underline{60}) \text{ Hp} * 8.8 * 0.7}{(\underline{60}) \text{ PSI} * 2.31) + \underline{410} \text{ ft}} = \underline{0.67} \text{ cfs}$$

$$\text{Permit Rate (irr)} = \underline{2.18} \text{ cfs}$$

$$\text{Proof Pd (\$150.00) (max cfs)} = \underline{3.00} \text{ cfs}$$

$$\text{Found POU acres } \underline{76} * 0.02 \text{ cfs/ac} = \underline{1.52} \text{ cfs}$$

$$\text{Measured rate (theoretical)} = \underline{0.67} \text{ cfs}$$

Recommendation in Red

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$\begin{aligned} V &= (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 76 \text{ ac } 4.5 \text{ af} = 342 \text{ afa} \\ \text{I.R.} \\ V &= [\text{Div Rate (cfs)}] \times (\text{Days in Irr season}) \times 1.9835 = 0.67 \text{ cfs} * 260 \text{ days} * 1.9835 = 345.5 \text{ afa} \\ \text{D.R.} \end{aligned}$$

The recommended diversion rate can just produce a larger volume than the legal limit therefore the legal limit for the 76 acres is the recommended volume.

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

See the June 14, 2012 63-31639 Historical review that highlights multiple amendments to the parent right 63-11398 and the subsequent splits.

This shows the well with the motor and pump removed. Danny Stimpson (manager) stated that the well had not been used for some time as it pumped too much sand. He stated that they were not using this well and did not intend on using it.

Subsequent information received from Layne Pump and Idaho Power (through Simplot) shows that the system had been developed and used for the entire irrigation season for 2009 and some use in 2010. When developed and when proof of beneficial use was submitted, this well was the only source for irrigation purposes. Canal water was transferred to this property beginning in the 2010 irrigation season and has been continuously used since that time. Based upon the documentation received, I am recognizing this permit as a primary irrigation right and no overlap with canal water.

As the pump was gone when I conducted the field exam I was unable to document the pumping system but in reviewing the information provided the 300 gpm (0.67 cfs) supplied by Layne pump is reasonable and the basis for the recommendation. For a more detailed review see the October 9, 2012 63-31639 basis for rate recommendation. I also checked with John Westra regarding the Idaho Power data. He did a brief review of the information and found that the peak Hp value indicated a 75 HP system. Based upon the 75HP and the 600 ft head as indicated by Lane Pump the pumping rate would be 0.88 cfs.

Have conditions of permit approval been met? X Yes No

This permit was split from 63-11398 and some conditions that are applicable to 63-31640 were carried forward on this permit.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.670 CFS	342.00 AF
	<u>Totals:</u>	0.670 CFS	342.00 AF

2. Recommended Amendments

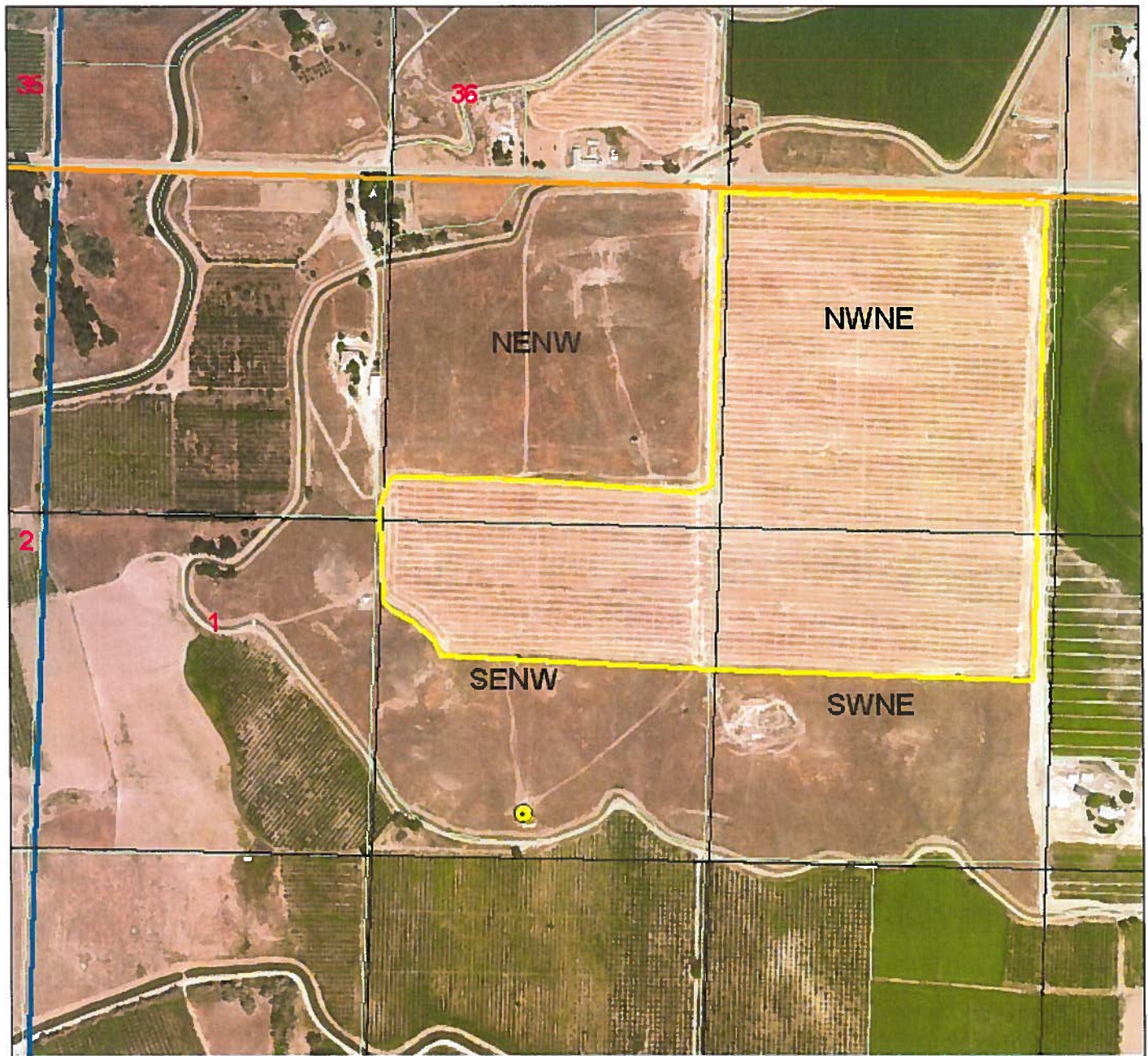
☒ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None

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

I. AUTHENTICATION

Field Examiner's Name Kelly K. Christensen Date Oct 10, 2012
Reviewer _____ Date _____

63-31639 LICENSING PLACE OF USE



★ LOCATION IN BASIN

PLACE OF USE
TWP 03N, RNG 5W Sec 1
Data Entry on October 10, 2012



- Found point of diversion
- Found place of use
- Township lines
- Section lines
- Quarter/quarter lines

**GIS PLACE OF USE PRESENTATION
2011 AERIAL PHOTOGRAPHY
BY KELLY K CHRISTENSEN**

Basin 63



63-31639 Permit

Field exam date 9-28-2012

3N, 5W, Sec 1 SENW

You are looking southwest in this photo
Homedale

By Kelly K Christensen



This shows the well with the motor and pump removed. Danny Stimpson (manager) stated that the well had not been used for some time as it pumped too much sand. He stated that they were not using this well and did not intend on using it.

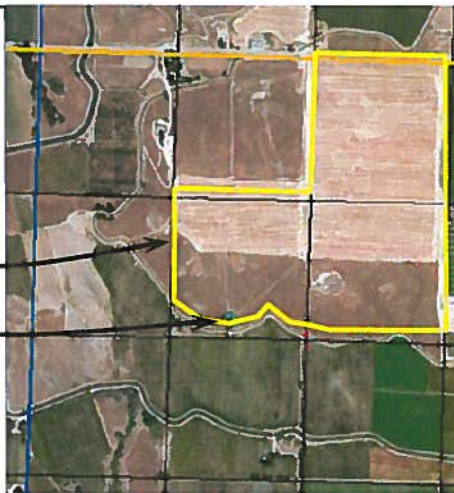
63-31639

Field exam date 9-28-2012

3N, 5W, Sec 1 SENW

Permitted POU

Point of diversion



Exam date Sept 28, 2012
Agent KKC

FIELD EXAM MAP

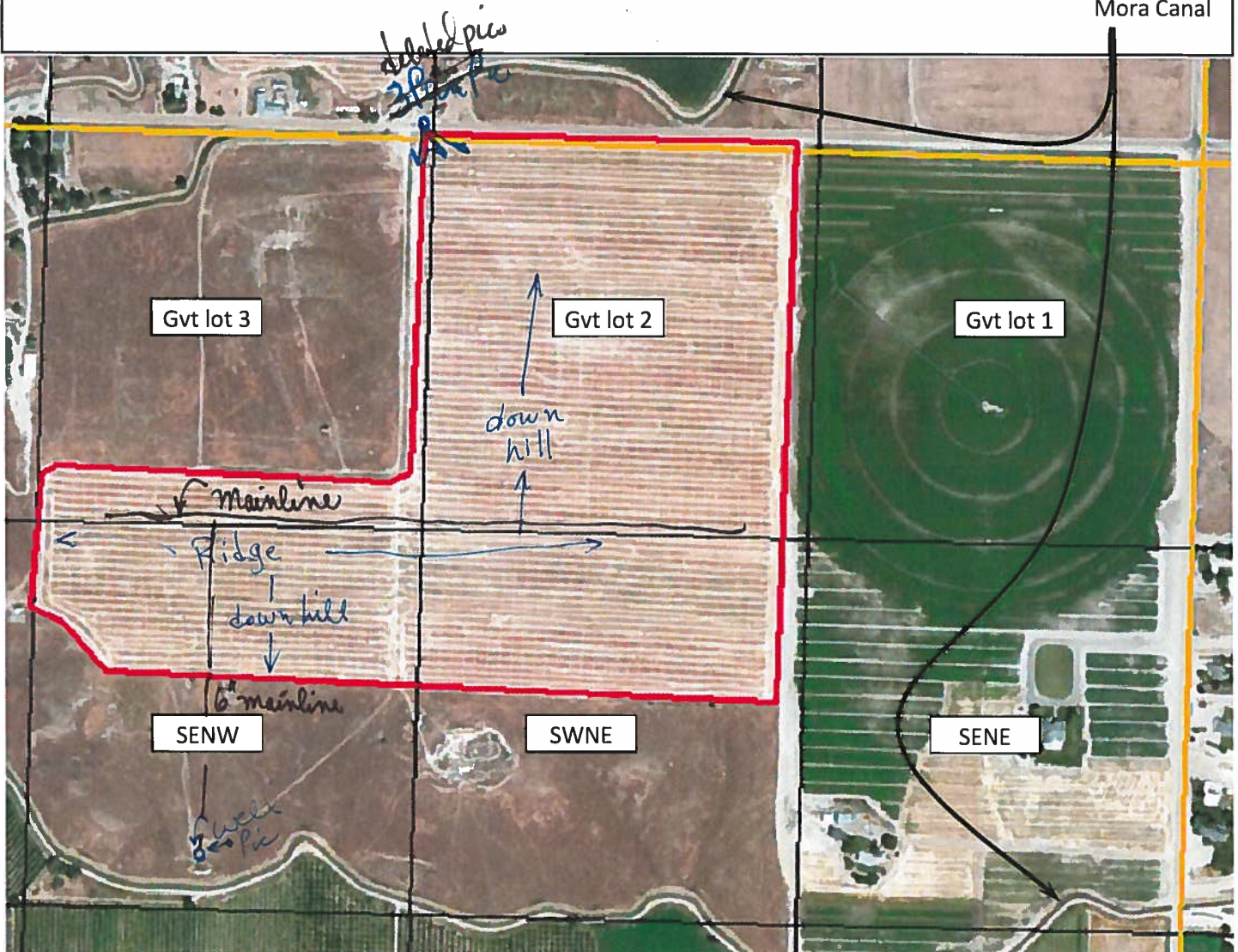
Aerial photo date 2011

Twp	Rng	Sec	QQ
3N	05W	1	

3N 05W 1

2011 aerial photo

Mora Canal



Wheel line

weather lec 10-30
9/64"

Rain Gerd 30
9/64 single
7033al

Wade Rain
WR-37
1/8

Field Exam date 9-28-2012



LAND & LIVESTOCK
GRAND VIEW FARMS

J.R. SIMPLOT COMPANY
223 RODEO AVE
CALDWELL, IDAHO 83605
BUS 208/459-0777
FAX 208/455-4805
CELL 208/249-7221

DANNY STIMPSON
FARM SUPERVISOR

danny.stimpson@simplot.com

Bringing Earth's Resources to Life

Accompanied me on the field exams for

63-31639 & 63-11756

63-31639 basis for rate recommendation

ANALYSIS OF INFORMATION PROVIDED BY SIMPLOT (LAYNE PUMP DATA) (SEE Oct 4, 2012 e-mail from Vic Conrad (Simplot) to Kelly K Christensen (IDWR))

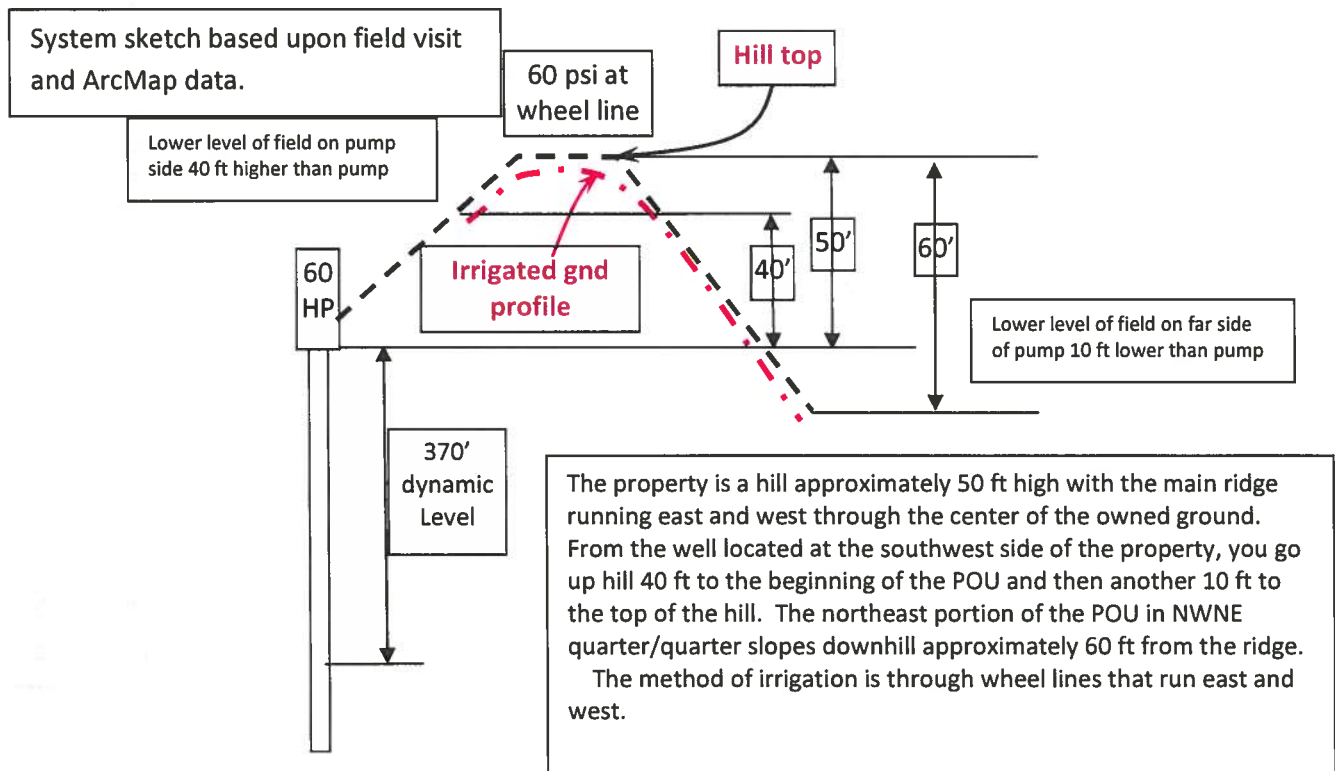
Layne Pump data

300 GPM (0.67 cfs) @ 600' TDH
60 HP with pump set at 400'
Well size 16" depth 594'
Static Level = 228'

$$\frac{(\frac{60}{60})\text{Hp} * 8.8 * 0.7}{(\frac{60}{60})\text{PSI} * 2.31 + 410 \text{ ft}} = \underline{0.67} \text{ cfs}$$

60 HP from Lane Pump, 60 psi estimated for wheel lines,
0.67 cfs based upon Layne pump data.
Head value backed into to get the reported rate.

In comparing the information submitted by Layne pump with the system physical characteristics their pumping rate of 300 GPM is a reasonable rate. That value appears to be relatively conservative. The system layout when Layne Pump made the measurement is not known. I am accepting their pumping rate as the best information as the assumption is that that rate was based upon a measurement.



Oct 10, 2012

Calculations by John Westra old power billing records
for 3N 5W 106/Wilder dd. 83676

$$HP = \frac{Q \times H}{3960 \times EFF}$$

$$HP = KW \times 1.34$$

$$Q = \frac{HP(3960) \times EFF}{H}$$

Q = Flow gallons/min

H = Total Head (Feet)

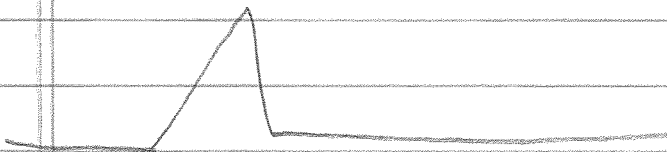
EFF = EFFICIENCY in decimal 80% = .8

56 = Peak KW during the 2009 irr season.

$$56 \text{ KW} = 75.04 \text{ hp}$$

$$\underline{GPM} = \frac{(75 \text{ hp})(3960) \times .8}{\text{Head}} = \underline{237,600}$$

$$\frac{237,600}{600} = 396 \text{ GPM} \approx \underline{0.88 \text{ cfs}}$$





Premise Billing History

RE: 03n05w0106/Wilder,Id 83676

Simplot Land & cattle

3/11/2011	EA-IR	28	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
2/11/2011	EA-IR	27	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
1/15/2011	EA-IR	30	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
12/16/2010	EA-IR	30	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
11/16/2010	EA-IR	32	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
10/15/2010	EA-IR	30	R	\$3.57	0.00 KWH	0.00 KW	Simplot Land & Cattle
9/15/2010	EA-IR	30	R	\$18.77	0.00 KWH	0.00 KW	Simplot Land & Cattle
8/16/2010	EA-IR	31	R	\$18.77	0.00 KWH	0.00 KW	Simplot Land & Cattle
7/16/2010	EA-IR	30	R	\$18.77	0.00 KWH	0.00 KW	Simplot Land & Cattle
6/16/2010	EA-IR	30	R	\$17.71	0.00 KWH	0.00 KW	Simplot Land & Cattle
5/17/2010	EA-IR	31	R	\$95.00	1410.00 KWH	59.00 KW	Simplot Land & Cattle
4/16/2010	EA-IR	30	R	\$274.50	4165.00 KWH	65.00 KW	Simplot Land & Cattle
3/17/2010	EA-IR	29	L	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
2/16/2010	EA-IR	28	L	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
1/19/2010	EA-IR	33	L	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
12/17/2009	EA-IR	30	L	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
11/17/2009	EA-IR	32	L	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
10/16/2009	EA-IR	30	R	\$3.14	0.00 KWH	0.00 KW	Simplot Land & Cattle
9/16/2009	EA-IR	30	R	\$16.50	0.00 KWH	0.00 KW	Simplot Land & Cattle
8/17/2009	EA-IR	31		\$1,007.53	12616.00 KWH	55.00 KW	Simplot Land & Cattle
7/17/2009	EA-IR	30	R	\$1,597.24	23185.00 KWH	56.00 KW	Simplot Land & Cattle
6/17/2009	EA-IR	30	R	\$2,173.49	35874.00 KWH	56.00 KW	Simplot Land & Cattle
5/18/2009	EA-IR	31	R	\$2,282.59	40079.00 KWH	55.00 KW	Simplot Land & Cattle
4/17/2009	EA-IR	30		\$1,512.27	26535.00 KWH	55.00 KW	Simplot Land & Cattle
3/18/2009	EA-IR	29	R	\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
2/17/2009	EA-IR	32		\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
1/16/2009	EA-IR	30	R	\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
12/17/2008	EA-IR	30		\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
11/17/2008	EA-IR	32	R	\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
10/16/2008	EA-IR	30	R	\$3.08	0.00 KWH	0.00 KW	Simplot Land & Cattle
9/16/2008	EA-IR	32		\$23.05	64.00 KWH	1.00 KW	Simplot Land & Cattle

Christensen, Kelly

From: Conrad, Vic [Vic.Conrad@simplot.com]
Sent: Thursday, October 04, 2012 10:54 AM
To: Christensen, Kelly
Subject: FW: Turkey Farm Pump data

Kelly,
Below is the information from Layne that I provided to you verbally yesterday. Thanks.

From: Cass Cook [mailto:cass@layneofidaho.com]
Sent: Thursday, October 04, 2012 9:15 AM
To: Conrad, Vic
Subject: Turkey Farm Pump data

Vic,
As requested I have listed below the data on the Turkey Farm pump located approximately on south Allendale to Ustick, west to pump.

Conditions: 300 gpm @ 600 tdh
60 HP motor, s/n 6P1054988
Pump - 13 stage 9RCLC
Set - 400' - 6" X 2" X 1-3/16"
Well size - 16"
Depth of well - 594'
Static - 228'
Last worked on by Layne of Idaho - August 24, 2010

600
- 92. = sprinkler hd @ 60 PSI
508

Please note that Layne of Idaho is providing this information based on our last work date of August 24, 2010. Layne of Idaho cannot be held responsible for changes or conditions that have occurred since that date.

If we can be of further assistance, please do not hesitate to contact me.

--

Cass Cook
Layne of Idaho, Inc.
PO Box 1005
700 Northside Blvd. (83687)
Nampa ID 83653
Ph: 208.466.7376
Fax: 208.466.5078
email: cass@layneofidaho.com

Christensen, Kelly

From: Christensen, Kelly
Sent: Monday, October 01, 2012 3:17 PM
To: 'Conrad, Vic'
Subject: 63-31639 premit subject to licensing review

Vic,

Based upon Arc Map the developed POU is 75 acres which would be 1.50 cfs at one inch per acre. When I was told that the delivery system had been removed and that the well produced too much sand to be usable I did not gather any additional information.

While it is not unreasonable to expect that the system was developed at one inch per acre the recommendation of a permit for licensing needs to be based upon the actual development. I got the impression in the field that the system was never put to beneficial use or that the viability of the system was determined to be unacceptable shortly after development and no effort to establish a working system was pursued. Based upon that assumption I did not pursue any additional information for licensing purposes.

I visited with John Westra regarding this permit and to move forward to licensing the department does need to have documentation of the actual development. Documentation of the pumping system including the pump curves, the system HP, and delivery system needs to be provided. Power records would also be beneficial for the analysis. Was the system developed to be used only when canal water was not available or was the system designed to be able to be co-mingled with canal water and then delivered to the POU?

The well log indicates that the well was completed 11-5-1997 and proof of beneficial use was received November 30, 1999 but those documents do not provide any information regarding the developed system.

I will not move forward with the recommendation for this permit until I receive additional information one way or the other.

Kelly

From: Conrad, Vic [<mailto:Vic.Conrad@simplot.com>]
Sent: Friday, September 28, 2012 4:05 PM
To: Christensen, Kelly
Subject: RE:

How about we go with the number of acres irrigated x .02 cfs/acre?

From: Christensen, Kelly [<mailto:Kelly.Christensen@idwr.idaho.gov>]
Sent: Friday, September 28, 2012 4:04 PM
To: Conrad, Vic
Subject: RE:

To be able to license this permit I will need additional information.

With no pumping system there is no way to determine what the system capacity might have been. As this permit was amended many times moving it from one place to another and eventually splitting it between industrial and irrigation, the permit file does not provide any help.

What documentation do you have regarding the system as historically developed, pumping HP, system pressure, and what was the system capacity?

I am not sure what else might be necessary as there is nothing available at this time.

Kelly

From: Conrad, Vic [mailto:Vic.Conrad@simplot.com]
Sent: Friday, September 28, 2012 3:26 PM
To: Christensen, Kelly
Subject: RE:

I want to proceed with licensing the permit. I think it is too premature to rely totally on the canal source yet. If it turns out this becomes reliable, I may transfer the water right elsewhere.

From: Christensen, Kelly [mailto:Kelly.Christensen@idwr.idaho.gov]
Sent: Friday, September 28, 2012 3:00 PM
To: Conrad, Vic
Subject:

http://www.idwr.idaho.gov/RulesStatutesForms/WaterRights/PDFs/RELINQUISHMENT_OF_PERMIT.pdf

Vic,

Above is a link to a relinquishment of permit form. Danny Stimpson stated that the well was not being used as it pumped too much sand and that you were not planning on doing anything with the well.

If this is correct then the easiest way to resolve the permit would be for you to complete the relinquishment form. Also if you go this way then the well should also be physically abandoned.

Let me know which way you want to go.

Kelly

Pc doc	date	Backfile document description for permit 63-11398
pg		
37-38	12-6-1990	63-11398 permit approved, Irr 158 ac in 3N, 5W, Sec 1
	2-4-1993	Proposed amendment to move permit to Columbia Village golf course. Protested. 11-17-1993 amendment submitted to satisfy protest.
171	4-1-1993	Advertisement of amendment to move permit to Columbia Village golf course.
34-35	11-17-1993	Amendment to move irr of 158 ac to 5N, 5W, Sec 30 & 31
33	1-21-1994	Department order set aside denied order of ext of time, Approval of Amendment to move irr of 158 ac to 5N, 5W, Sec 30 & 31
73	12-1-1994	Proof of beneficial use submitted on system for 5N, 5W, Sec 30 & 31 additional info PC doc pg 98
105 – 109	2-15-1996	Beneficial use Field exam for permit at 5N, 5W, Sec 30 & 31
103	11-15-1996	Application for amendment of a permit to move POU to 5N, 5W, Sec 30 & 31 Withdrawn prior to advertising.
93	4-18-1997	Withdrawal of application for amendment (11-15-1996)
29	7-11-1997	Extension of time to submit Beneficial use approved to December 1, 1998
28	8-18-1997	Amendment to move irr of 158 ac to 3N, 5W, Sec 1
23	11-9-1998	Amendment to change use of a portion of the irrigation to industrial use in 4N, 5W, Sec 8, 10, and 17
22	11-30-1998	Proof of beneficial use for 63-11398
16-17	3-1-2001	Amendment to add 2 PODs missed in previous amendment approved

Assignment of the Industrial portion of 63-11398

See scanned documents for either 63-31638 or 63-31639

63-11398 split into  63-31638 irrigation of 109 ac in 3N, 5W, Sec 1
63-31639 industrial use in 4N, 5W, Sec 8, 10, and 17

63-31639 HISTORICAL REVIEW

This right is a split from 63-11398. That right has a long history as a permit going through several attempts to change the POU via at least 5 different amendments. The February 1993 amendment was protested and was ultimately withdrawn. Another amendment in November of 1993 was approved but ultimately withdrawn in 1994.

In 1994 Proof of Beneficial use was submitted followed by a field exam for the POU as identified in the November 1993 amendment. Ultimately Simplot withdrew the 1994 Proof of Beneficial use and filed for an extension of time to file proof which was eventually granted with a new Proof of Beneficial use date of Dec 1, 1998. Another amendment was filed in August of 1997 to change the POU back to the original permitted POU in 3N, 5W, Sec 1. This was followed by an amendment in November of 1998 to change a portion of the irrigation use to industrial use (ultimately to be licensed as 63-3140 the other split from the original right). Proof of Beneficial use was again filed in November of 1998.

In March of 2001 another amendment was filed to add PODs to the permit for the same POU as approved in the November of 1998 amendment.

In February of 2001 an assignment of permit was filed splitting the permit into the two independent uses. This was ultimately processed by 2003 resulting in the creation of 63-31639 for irrigation and 63-31640 for industrial use.

FIELD EXAM FOR LICENSING PURPOSES FOR 63-31639

This review is beginning with the assumption that the permit as shown on the database as of June 13, 2012 represents the system that is to be reviewed. Any historical changes have been resolved to the department's satisfaction and need no further review. The permit is recorded as follows.

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
IRRIGATION	03/01	to 11/15	2.180 CFS	
<u>Total Diversion:</u>			2.180 CFS	
<u>Location of Point(s) of Diversion</u>				
GROUND WATER	L3 (NE1/4NW1/4)	Sec. 1, Twp 03N,	Rge 05W, B.M.	CANYON County
GROUND WATER	NE1/4SE1/4	Sec. 10, Twp 04N,	Rge 05W, B.M.	CANYON County
GROUND WATER	NE1/4SE1/4	Sec. 10, Twp 04N,	Rge 05W, B.M.	CANYON County
<u>Place of Use</u> IRRIGATION				
Twp Rge Sec	NE			
	NE	NW	SW	SE
03N 05W 1	41.0	30.0	38.0	109.0
	L 2			
Total Acres: 109				
<u>Conditions of Approval:</u>				
1.	R65	This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the lands above.		
2.	X01	Industrial use is for meat processing purposes.		
3.	046	Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.		
4.	WD8	The waste water from this industrial process may be land-applied anywhere within the places of use identified under this right,		

The two PODs in Sec 10 are approximately 6 miles away from the irrigation POU. Probably they are not used with this system. Conditions 2 & 4 WD4 applied to the other side of the split and should not be associated with this permit.

Based upon the 2000 through the 2011 available aerial photos it appears that there are approximately 74 irrigated acres which includes ~ 5.3 acres in the NENW which is not a part of the permitted POU.