

These notes below in caps are by Rachel Sommer & provide a good summary of the conference. I would only add:

- Applicant provided additional useful map information from SPF, attached. Protestant received a copy.
- Applicant existing wells to be used:
 - East Well originally Anderson, 63-7270 before splits etc.
 - West Well originally Pancheri, 63-8604
 - Now authorized for about 4.35 cfs, propose add 1.95 cfs.
- Estimated maximum drawdown at Worman Well if add more pumping, about 4 ft.
- Expect settlement from parties about 45 days but proceed with calendars for possible hearing as backup plan.

SL 7/2/13

PRE-HEARING NOTES

SNAKE RIVER DAIRIES LLC APPLICATION FOR PERMIT NO. 63-33639

THURSDAY JUNE 27, 2013

PRE-HEARING ATTENDIES:

DYLAN LAWRENCE
SCOTT KING
AL WORMAN
STEVE LESTER
RACHEL SOMMER

APPLICANTS:

OBJECTIVES

- IRRIGATE 26 ACRES OF NEW LAND.
- HELP SATISFY ACRES OF ALREADY IRRIGATED LAND (UP TO 1"/ACRE).

POINTS MADE

- THE 2 WELLS THAT WILL BE USED ARE EXISTING AND ARE BEING USED FOR OTHER WATER RIGHTS.
- WELLS ARE AT LEAST 1 MILE AWAY FROM WORMAN'S.
- TRENDS FROM MAPS PRESENTED SHOWED NO DECLINE OF WATER LEVELS. (ESSENTIALLY SHOWING ROOM FOR ADDITIONAL PUMPING)
- THE APPLICANTS WELL AND THE PROTESTANTS WELL ARE REPLENISHED FROM DIFFERENT AREAS.
- THE APPLICANT WOULD PUMP ON AVERAGE 54 GALLONS A MIN OVER A YEAR USING THE TYSON TABLE MINUTE.
- DEPTH OF WORMAN'S WELL IS 320 FT — 335 FT AND THE PUMP IS SET 280 FT DOWN. IF NEEDED HE WOULD HAVE ROOM TO LOWER THE PUMP.
- THIS AQUIFER DOES RECHARGE AND THE RECOVERY IS QUICK.

PROTESTANT:

CONCERNS

- OVER PUMPING.
- NO MONITORING WELLS.
- WELL DRAW DOWN.
- HAS TESTED THE WELL BEFORE AND SAW GREAT DRAW DOWN.
- ORIGINALLY WORMAN MADE A STATEMENT THAT HIS WELL WAS 320 FT DEEP AND THAT WAS BOTTOMED OUT WITH HIS PUMP SET AT 10 FT OR 12FT OFF THE BOTTOM. (HE LATER AGREED THAT WAS FALSE)
- HE HAS BEEN PUMPING SAND AND HAS ALWAYS BEEN BATTLING WITH THE SAND ISSUE.
- VERY CONCERNED WITH THE CONE OF DEPRESSION AFFECT.
- SPRINKLER SYSTEMS DO NOT ALLOW RECHARGE AND THIS NEW APPOSED WATER RIGHT WILL BE APPROPRIATED USING A SPRINKLER SYSTEM.
- BELIEVES THERE IS A "HIDDEN WELL" ON THE APPLICANTS PROPERTY.

OUTCOME OF PRE-HEARING

THE DEPARTMENT WILL PREPARE FOR A HEARING BY SENDING OUT CALENDARS FOR MONTHS SEPTEMBER, OCTOBER AND NOVEMBER.

IF THE PARTIES COME TO AN AGREEMENT THEY WILL NOTIFY THE DEPARTMENT WITHIN 45 DAYS.

WORMAN WOULD POSSIBLY DROP HIS PROTEST IF MONITORING DEVICES WERE PRESENT ON THE WELLS AND IF HE WAS ABLE TO RECEIVE YEARLY MONITORING REPORTS FOR THEM.

2011 Photo

Worman Domestic Well
Ground Elevation = 2605
Ground Water Level Elevation = 2402

Tlucek North Well
Ground Elevation = 2620
Ground Water Level Elevation = Unknown

Tlucek West Well
Ground Elevation = 2550
Ground Water Level Elevation = 2397

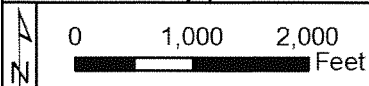
Tlucek East Well
Ground Elevation = 2780
Ground Water Level Elevation = 2374

*Well between?
being used?
no records?*

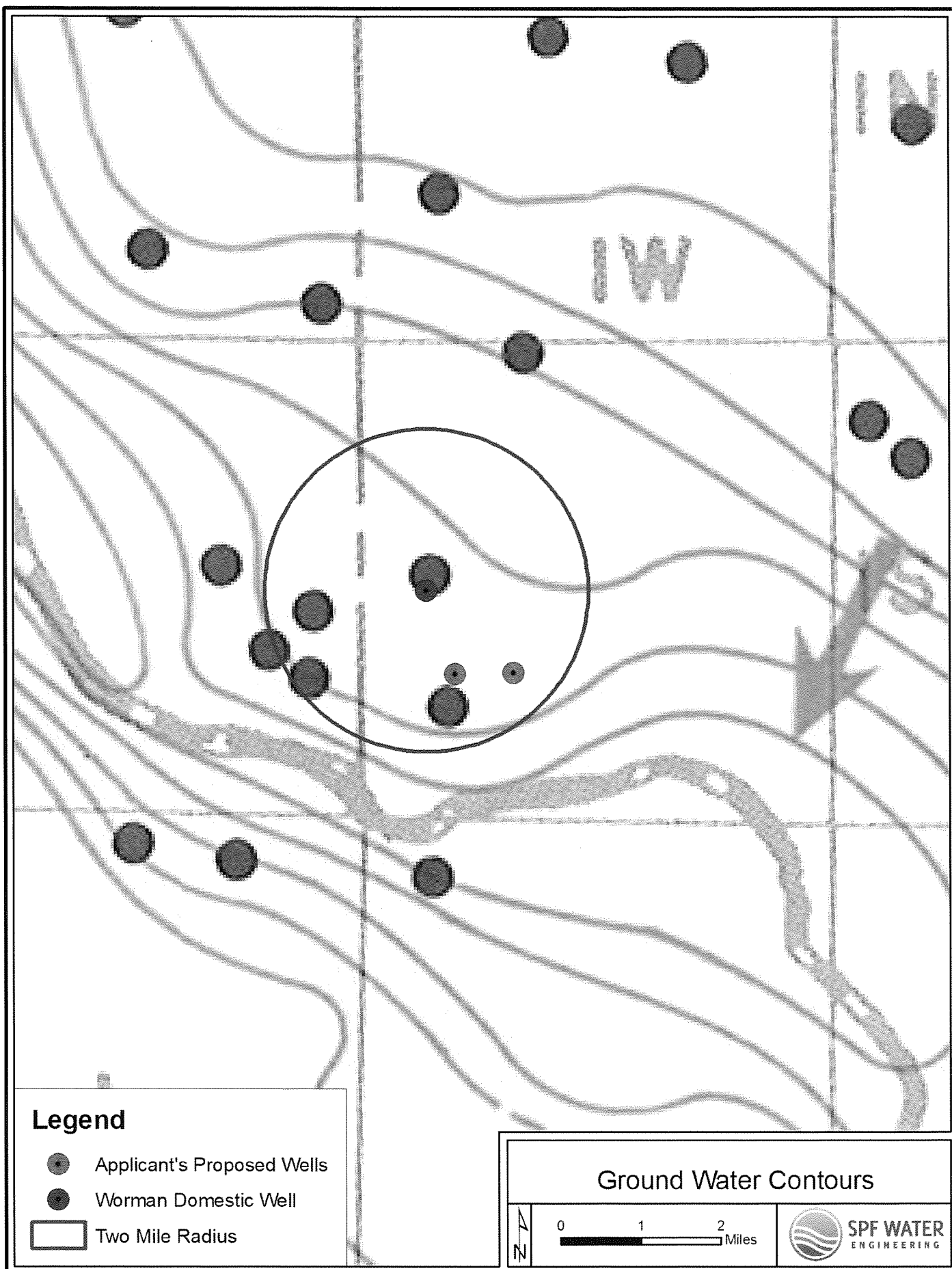
Legend

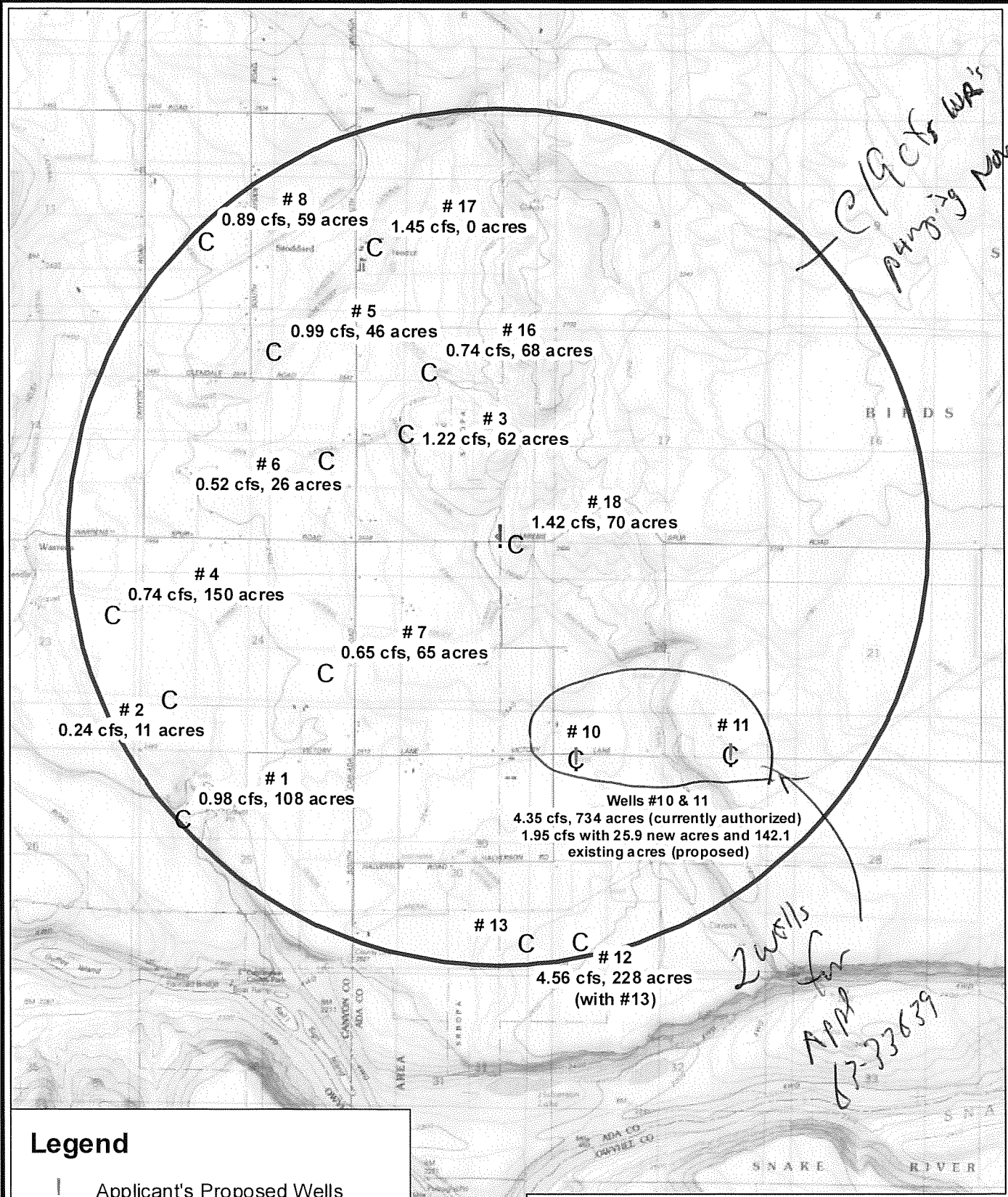
● Points of Diversion

**Snake River Dairies
Application for Permit**



* RECEIVED 6/27/2013 from Applicant
at ADKHEMINE CONFERENCE w/ CC to protestant





Legend

- ! Applicant's Proposed Wells
- C Surrounding Wells (≥ 0.24 cfs)
- ! Worman Domestic Well
- Two Mile Radius

Ground water rights within two-miles of Worman well with combined diversion rate ≥ 0.24 cfs

1 0 0.5 1 Miles

SPF WATER ENGINEERING

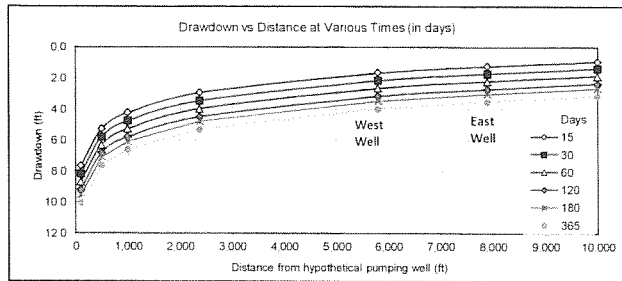
Theis Worksheet

Project: Tlucek application for permit
Project Number: 63-33639

Assumed Parameter Values

Q=	54	(gpm)
T=	8,260	(gpd/ft)
S=	0.00013	(dimensionless)

Time (days)	Time (minutes)	Radius (ft)						
		100	500	1,000	2,376	5,800	7,900	10,000
0.01	14	2.22	0.26	0.01	0.00	0.00	0.00	0.00
0.1	144	3.92	1.57	0.59	0.05	0.00	0.00	0.00
0.2	288	4.44	2.06	1.11	0.22	0.00	0.00	0.00
0.4	576	4.96	2.57	1.57	0.51	0.02	0.00	0.00
0.8	1152	5.47	3.08	2.06	0.89	0.10	0.02	0.00
1.0	1440	5.64	3.24	2.22	1.03	0.17	0.04	0.01
2.0	2880	6.16	3.76	2.73	1.49	0.42	0.19	0.07
7.0	10080	7.09	4.69	3.66	2.38	1.13	0.75	0.50
15.0	21600	7.66	5.26	4.23	2.94	1.65	1.23	0.92
30.0	43200	8.18	5.78	4.74	3.45	2.14	1.70	1.37
60.0	86400	8.70	6.29	5.26	3.97	2.65	2.19	1.86
120.0	172800	9.22	6.81	5.78	4.49	3.16	2.70	2.36
180.0	259200	9.52	7.11	6.08	4.79	3.46	3.00	2.65
365.0	525600	10.05	7.64	6.61	5.32	3.98	3.52	3.17



Agricultural Pumping Rates		
Acreage	168	acres
Per-acre application rate		cfs/acre
Max aggregate diversion rate	0	cfs
Max aggregate diversion rate	0	gpm
Assumed application volume	0.51	AF
Annual volume	86	AF
Annual vol delivered over X mos	12	months
Div rate to deliver annual vol in X mos	54	gpm

Note 142 1 existing + 25 9 new

Note 142 1 @ 0.15 afa + 25 9 @ 2.5 afa

Pumping Rate Worksheet	
average domestic use	gpm
low irrigation	gpm
high irrigation	gpm
Domestic + low irrigation	0 gpm
Domestic + high irrigation	0 gpm

		Chart Data					
		Time					
Distance	Days	15	30	60	120	180	365
100		7.66	8.18	8.70	9.22	9.52	10.05
500		5.26	5.78	6.29	6.81	7.11	7.64
1,000		4.23	4.74	5.26	5.78	6.08	6.61
2,376		2.94	3.45	3.97	4.49	4.79	5.32
5,800		1.65	2.14	2.65	3.16	3.46	3.98
7,900		1.23	1.70	2.19	2.70	3.00	3.52
10,000		0.92	1.37	1.86	2.36	2.65	3.17

Assumptions

Assumptions inherent to the use of the non-equilibrium well equation (Theis, 1935) are that the aquifer is homogeneous and isotropic, uniform in thickness and areal extent, the aquifer receives no recharge, the pumping well penetrates the full aquifer thickness, water removed by discharge is removed instantaneously, the pumping well is 100 percent efficient, laminar flow exists throughout the aquifer, and that the water table or potentiometric surface has no slope. These assumptions are rarely completely satisfied under field conditions, but this method will often provide an indication of possible well interference.

Reference:

Theis, C.V., 1935. The relation between the lowering of the piezometric surface and the rate and duration of a well using ground-water storage. Transactions, American Geophysical Union, 16: 519-524.

* Estimated draw down e. horizon well
e. Theis analysis re Appl. wells
max. ~ 4' ±

IDAHO DEPARTMENT OF WATER RESOURCES
ROSTER OF ATTENDANCE

Pre-hearing Conference
Snake River Dairies LLC
Application for Permit No: 63-33639

✓ Steve Lester &
Rachel Sommer

Place: IDWR – Western Region Conference Room

Date: Thursday, June 27, 2013

Time: 9:30 a.m.

NAME

ORGANIZATION

1. AL Worman	Individual
2. Dylan Lawrence	Moffatt Thomas
3. SCOTT KING	SPF Water Engineering
4.	
5.	
6.	
7.	
8.	
9.	
10.	