

MEMORANDUM

TO: File

FROM: Rick Collingwood

DATE: 2-28-14

RE: Water Right Permit No. 63-31298

The attached beneficial use field report was prepared in-office from data and information provided by SPF Water Engineering. No field examination was performed by the Department.

Scott King, P.E., SPF Water Engineering, conducted a field examination for Water Right Permit No. 63-31664 on December 9, 2011. The points of diversion and places of use are the same for Water Right Permit No. 63-31298 and Water Right Permit No. 63-31664. The beneficial use report for Water Right Permit No. 63-31298 was prepared from data and information provided by SPF Water Engineering, which included photographs, well identifications and locations, well pump and motor information, pump curves, flow measurements, and well logs.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31298

Exam Date: 12/9/2011

1. Current Owner: MANN FARMS
31801 MANN LN
PARMA ID 83660
(208)722-9039

2. Accompanied by:

Phone No: Same

Address: Same

Relationship to Permit Holder:

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 63-4261A, 63-21364, 63-31292, 63-31293, 63-31294, 63-31295, 63-31664
2. Other water rights with the same point of diversion: 63-21364, 63-31292, 63-31293, 63-31294, 63-31295, 63-31664

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SW1/4NE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	NW1/4SE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	SW1/4NE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	SE1/4NW1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	NW1/4SE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	NE1/4SW1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	NW1/4SE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		
GROUND WATER	SW1/4NE1/4	Sec. 25, Twp 06N, Rge 06W, B.M.
CANYON County		

Method of Determination: Arc Map (Aerial Photo)

2.

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	
06N	06W	25			X	X				X	X	X		X	X	X	X		

Method of Determination: Arc Map (Aerial Photo); Tax Lots

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>
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(SEE ATTACHMENT)

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>
Flowmeter	Ultrasonic	_GE_	_PT 878_	_07140_	_Variable_	_3/27/13_

2. Measurements:

(SEE ATTACHMENT)

E. FLOW CALCULATIONS

____Additional Computation Sheets Attached

Measured Method: (Ultrasonic Flow Meter)

(SEE ATTACHMENT)

Q(measured & estimated) = 491 gpm = 1.09 cfs

Appears that the current 8 well pumping system can attain the permit diversion rate of 0.55 cfs.

Recommend the permit diversion rate of 0.55 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (Replacement Dairy Cattle – 2,500 Head)

$$V_r = (2500 \text{ head} \times 12 \text{ gpd/head} \times 365 \text{ days/year}) / 325,850 \text{ gallons/AF} = 33.6 \text{ AFA}$$

$$V_d = 0.55 \text{ cfs} \times 365 \text{ days/year} \times 1.9835 = 398.2 \text{ AFA}$$

$$V_r < V_d \quad \quad \quad V = 33.6 \text{ AFA}$$

G. NARRATIVE/REMARKS/COMMENTS

Scott King, P.E., SPF Water Engineering, conducted a field exam for Water Right Permit No. 63-31664 on December 9, 2011. Since the same points of diversion and places of use exist for Water Right Permit No. 63-31298 and Water Right Permit No. 63-31664, the appurtenant data and attachments associated with Water Right Permit No. 63-31664 were used for Water Right Permit No. 63-31298. SPF Water Engineering provided photographs, well identifications and locations, well pump and motor information, pump curves, flow measurements, and well logs. This narrative is based on the data and information provided by SPF Water Engineering.

WATER SUPPLY SYSTEM:

Eight (8) ground water wells supply stock water to the Mann Farms dairy cow replacement facility. The capacity of the Mann Farms facility is 12,000 head of replacement dairy cattle. Although the eight (8) ground water wells are interconnected to allow any of the eight wells to fill the watering troughs throughout the facility, Well No. 2 and Well No. 6 were constructed under Water Right Permit No. 63-31298.

SUMMARY OF STOCK WATER RIGHTS:

1000 head – Decreed Water Right 63-21364, 0.24 cfs, 13.4 AFA
 1000 head – Decreed Water Right 63-31292, 0.31 cfs, 14.6 AFA
 1500 head – Decreed Water Right 63-31293, 0.23 cfs, 20.2 AFA
 1000 head – Decreed Water Right 63-31294, 0.23 cfs, 14.6 AFA
 1000 head – Decreed Water Right 63-31295, 0.23 cfs, 14.6 AFA
 4000 head – Permit Water Right 63-31664, 0.44 cfs, 53.8 AFA
 2500 head – Permit Water Right 63-31298, 0.55 cfs, 33.6 AFA

In compliance with the previous water right examiner's recommendations, Water Rights 63-21364, 63-31292, 63-31293, 63-31294, 63-31295, and Water Right Permits 63-31664 and 63-31298 shall have a combined diversion rate limit of 1.24 cfs.

OVERLAP ANALYSIS:

Point of Diversion: Water Right Permits 63-31298 and 63-31664 have overlapping points of diversion with Water Rights 63-21364, 63-31292, 63-31293, 63-31294, and 63-31295.

Place of Use: Water Right Permits 63-31298 and 63-31664 have overlapping places of use with ground water Water Rights 63-21364, 63-31292, 63-31293, 63-31294, 63-31295, and waste water Water Right 63-4261A.

Have conditions of permit approval been met? ☒ Yes ☐ No

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.55	&/or	N/A
Beneficial Use Limit	0.55	&/or	N/A
System Measurement	1.09	&/or	N/A
Proof Fee Amount	1.00	&/or	N/A
Recommended Amount	0.55	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.550 CFS	33.6 AFA
<u>Totals:</u>		0.550 CFS	33.6 AFA

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

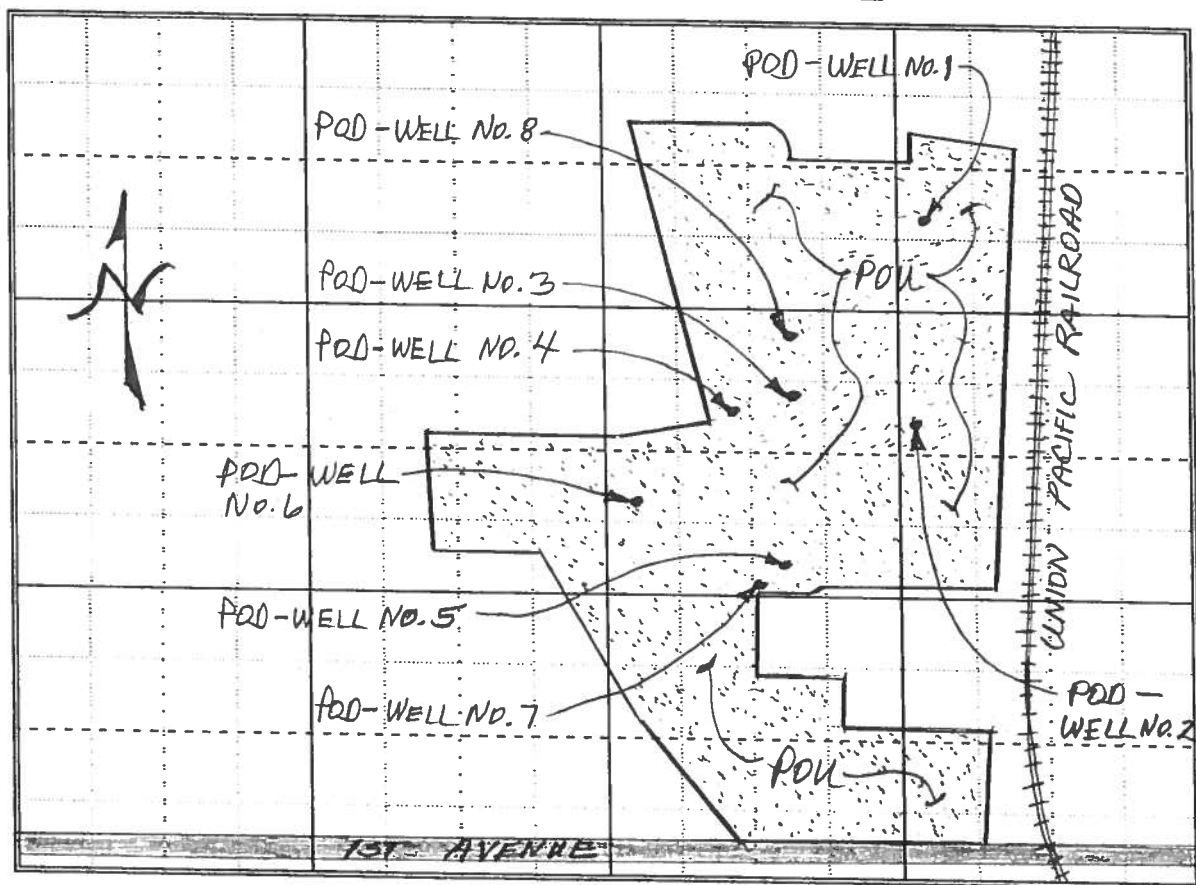
Field Examiner's Name Rick Collingwood Date 2/28/14

Reviewer _____ Date _____



0 275 550 1,100 1,650 2,200 Feet

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ 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



Figure 1: Well #1



Figure 2: Well 1 pump house.

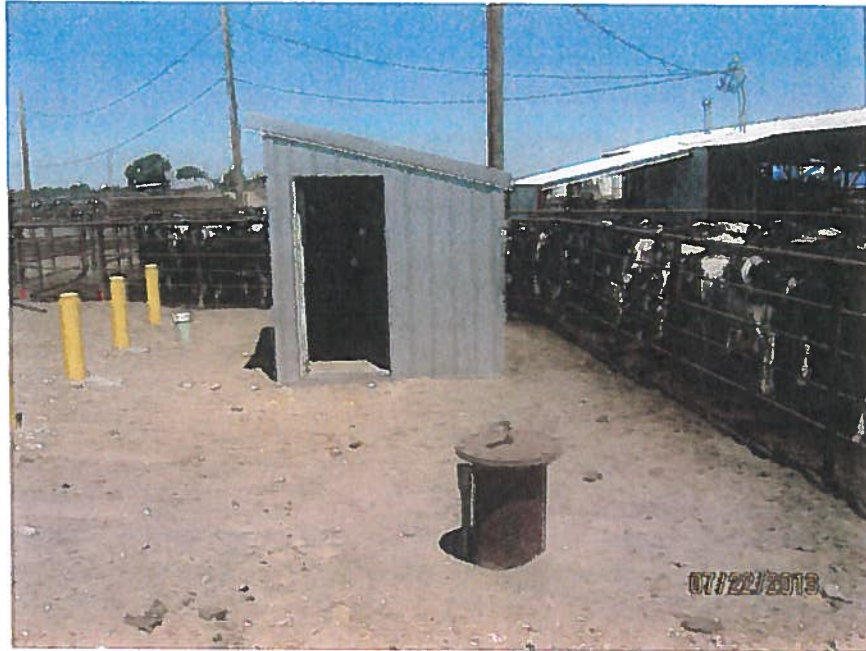


Figure 3: Well #2 (D0025278) and pump house.



Figure 4: Well #2 pump house plumbing.



Figure 5: Well #3 (D0046509) is in right foreground and Well #8 (D0048277) is in background along south (left) side of drain ditch.

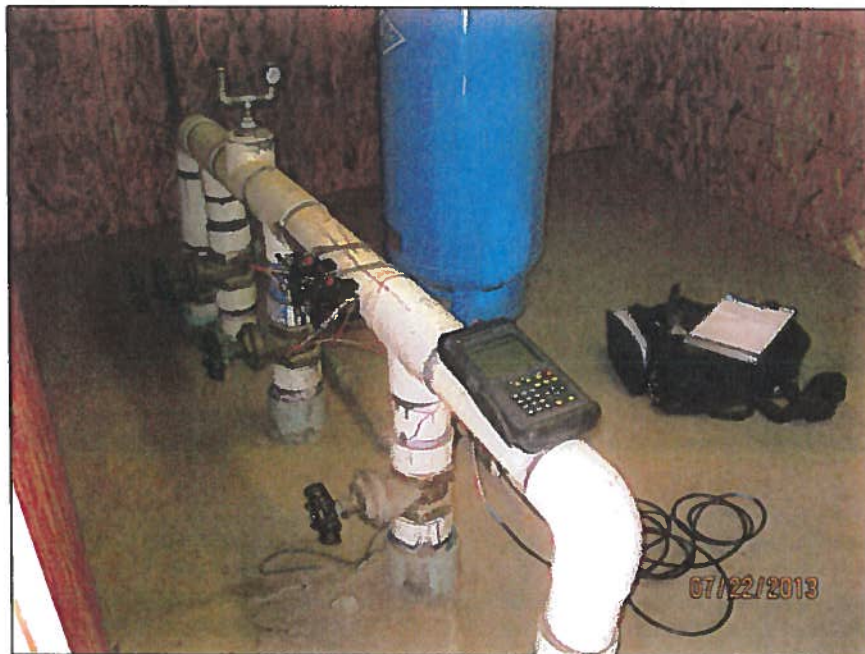


Figure 6: Wells #3 & #8 pump house plumbing. Valves were adjusted to measure all flow.



Figure 7. Well #4 (D0048279).



Figure 8. Well #4 pump house plumbing. Valves were adjusted to measure all flow.



Figure 9: Well #5 (D0019315) in foreground with pump house in background. The well next to the pump house (D0007831) is unused.



Figure 10: Well #5 pump house plumbing.

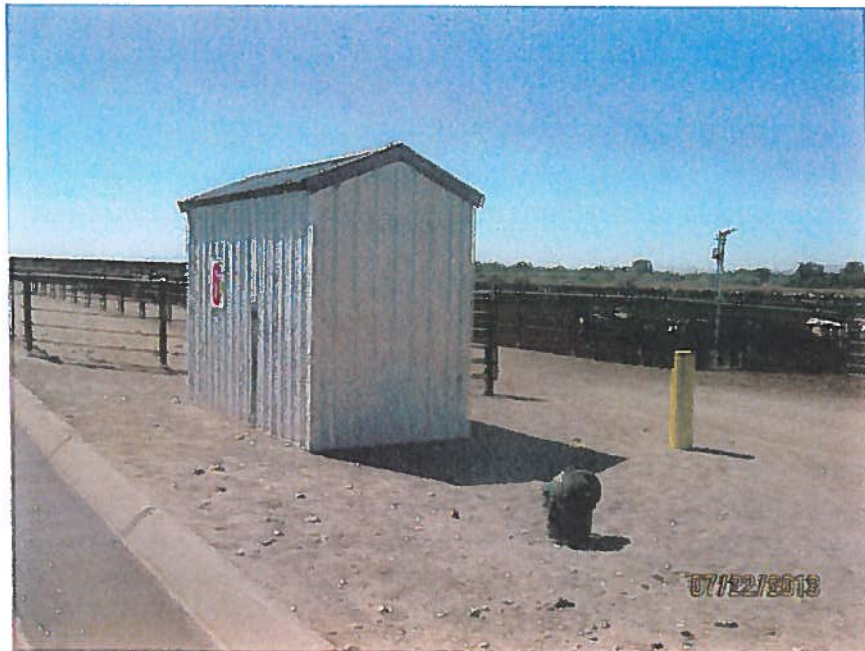


Figure 11: Well #6 (D0031063).

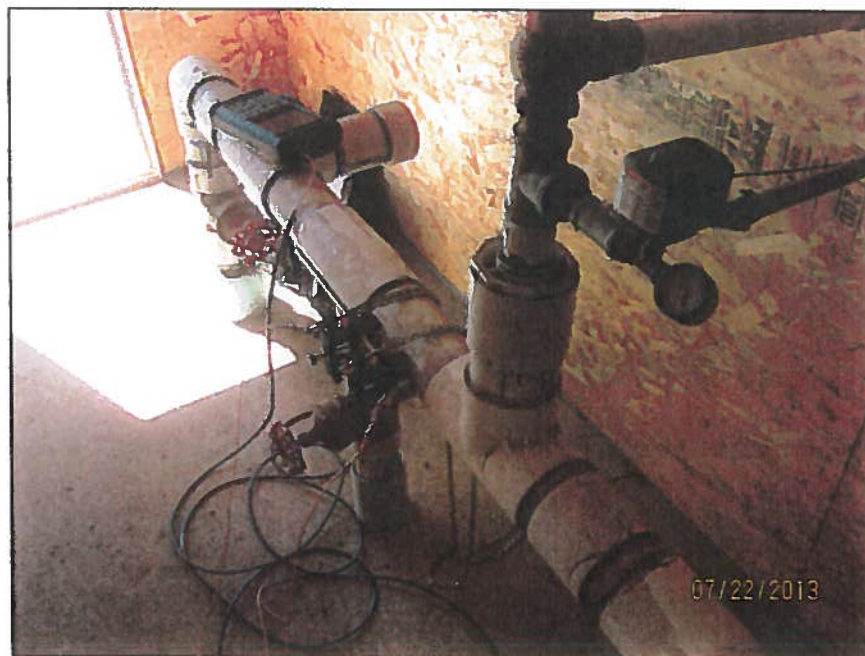


Figure 12: Well #6 pump house plumbing.



Figure 13: Well #7 (00048278).



Figure 14: Well #7 pump house plumbing.

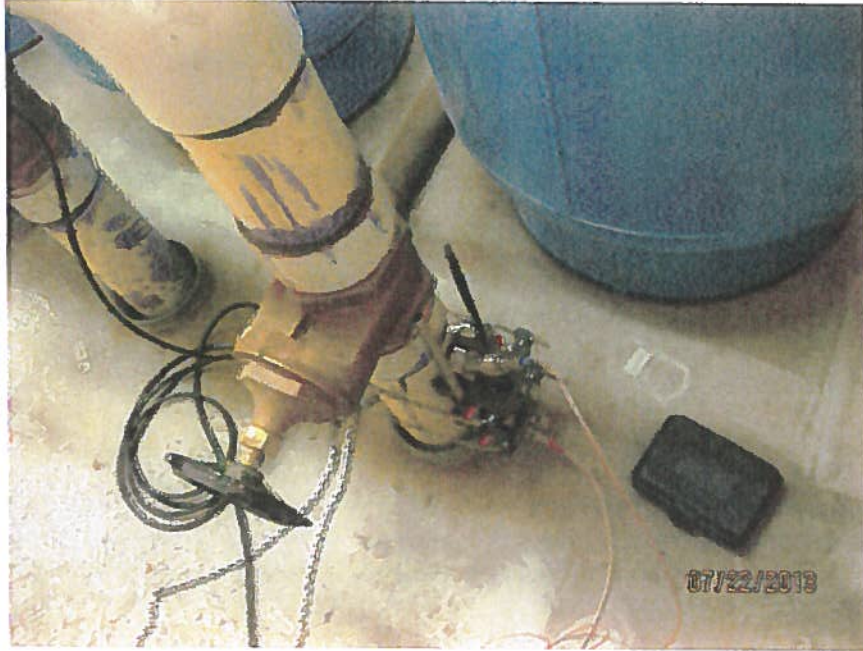


Figure 15: Well #7 measurement location (flow in from well).

Exam Item C.1. Points of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination
Well 1 D0009401			SW	NE	25	6N	6W	Canyon	Exam
Well 2 D0025278			NW	SE	25	6N	6W	Canyon	Exam
Well 3 D0046509			SW	NE	25	6N	6W	Canyon	Exam
Well 4 D0048279			SE	NW	25	6N	6W	Canyon	Exam
Well 5 D0019315			NW	SE	25	6N	6W	Canyon	Exam
Well 6 D0031063			NE	SW	25	6N	6W	Canyon	Exam
Well 7 D0048278			NW	SE	25	6N	6W	Canyon	Exam
Well 8 D0048277			SW	NE	25	6N	6W	Canyon	Exam

Well No.	Tag No.	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size	BUFE Measurement (gpm)
1	D0009401	Franklin	1.5	unknown	Goulds	18GS15	18
2	D0025278	Franklin	1.5	unknown	Goulds	18GS15	18
3	D0046509	not confirmed	not confirmed	unknown	not confirmed	not confirmed	116
4	D0048279	not confirmed	not confirmed	unknown	not confirmed	not confirmed	104
5	D0019315	Franklin	5	unknown	Goulds	40GS50	40
6	D0031063	not confirmed	not confirmed	unknown	not confirmed	not confirmed	100
7	D0048278	not confirmed	not confirmed	unknown	not confirmed	not confirmed	95
8	D0048277	not confirmed	not confirmed	unknown	not confirmed	not confirmed	see Well 3; both running together
Total Measured and Estimated							491

note: pump data and discharges for Wells #1, #2, and #5 are per Riverside Inc. See further explanation included.

Riverside, Inc., has installed most or all of the submersible pumps at this facility. Rory Walund with Riverside Inc. reports that their records indicate installation of the following submersible well pumps:

- 5 HP Franklin Electric with a Goulds 70L05 pump
- 1.5 HP Franklin Electric with a Goulds 18GS15 pump
- 5 HP Franklin Electric with a Goulds 40GS50 pump
- 10 HP Franklin Electric with a Grundfos 150S100 pump
- 15 HP Franklin Electric with a Jacuzzi 15NS6M6 pump
- 5 HP Franklin Electric with a B6T5-115 Franklin pump
- 20 HP Franklin Electric, no valid pump data

Unfortunately, Riverside Inc. records do not indicate a match between pumps and wells. Therefore, this examiner assumes that the larger pumps are installed in the wells where flow was measured, and that the smaller pumps are installed in wells that could not be measured (Wells 1, 2, and 5). The list above includes seven pumps and eight wells are in operation. Therefore, this examiner assumes the smallest Goulds 18GS15 pump is installed in Well 2, an equivalent size pump is installed in Well 1, and the next smallest Goulds 40GS50 pump is installed in Well 5.

The rated discharge of the Goulds 18GS15 pump is 18 gpm at approximately 260 feet of head. Given the high ground water table in this area, relative high well capacity, and low discharge pressures observed during the exam (from approximately 5 to 10 psi discharge pressure), capacities of 18 gpm for these two wells are conservative estimates.

The rated discharge of the Goulds 40GS50 pump is 40 gpm at approximately 240 feet of head. For the same above regarding water levels, well capacity and observed discharge pressure, the estimated capacity of 40 gpm is a conservative estimate for this Well #5 production capacity.

Permit: 63-31664
 Owner: Mann Farms
 Site Name: Well #3 & #8 combined
 POD Location: 6N 6W 25 SWNE
 Tag No: D0046509 & D0048277
 Meter: GE TransPort PT878
 Operator: Scott King

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #
7/22/2013 10:55:03	118	1519530	969	0
7/22/2013 10:56:02	117	1519648	969	0
7/22/2013 10:57:02	117	1519766	969	0
7/22/2013 10:58:02	116	1519881	969	0
7/22/2013 10:59:02	116	1519998	969	0
7/22/2013 11:00:03	116	1520114	969	0
7/22/2013 11:01:02	116	1520229	969	0
7/22/2013 11:02:03	116	1520346	969	0
7/22/2013 11:03:02	116	1520456	969	0
7/22/2013 11:04:03	116	1520578	969	0
7/22/2013 11:05:02	114	1520690	969	0

volume 1160 gallons
 time 10 minutes
 rate 116 gpm
 rate 0.26 cfs

Permit: 63-31664
 Owner: Mann Farms
 Site Name: Well #4
 POD Location: 6N 6W 25 SENW
 Tag No: D0048279
 Meter: GE TransPort PT878
 Operator: Scott King

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #
7/22/2013 11:25:03	115	1521385	969	0
7/22/2013 11:26:04	120	1521500	969	0
7/22/2013 11:27:03	115	1521619	969	0
7/22/2013 11:28:03	110	1521726	969	0
7/22/2013 11:29:03	105	1521841	969	0
7/22/2013 11:30:03	97	1521944	969	0
7/22/2013 11:31:03	108	1522048	969	0
7/22/2013 11:32:03	107	1522156	969	0
7/22/2013 11:33:03	105	1522265	969	0
7/22/2013 11:34:03	113	1522367	969	0
7/22/2013 11:35:03	130	1522425	969	0

Time	10 minutes
Volume	1040 gallons
Rate	104 gpm
Rate	0.23 cfs

Permit: 63-31664
 Owner: Mann Farms
 Site Name: Well #6
 POD Location: 6N 6W 25 NESW
 Tag No: D0031063
 Meter: GE TransPort PT878
 Operator: Scott King

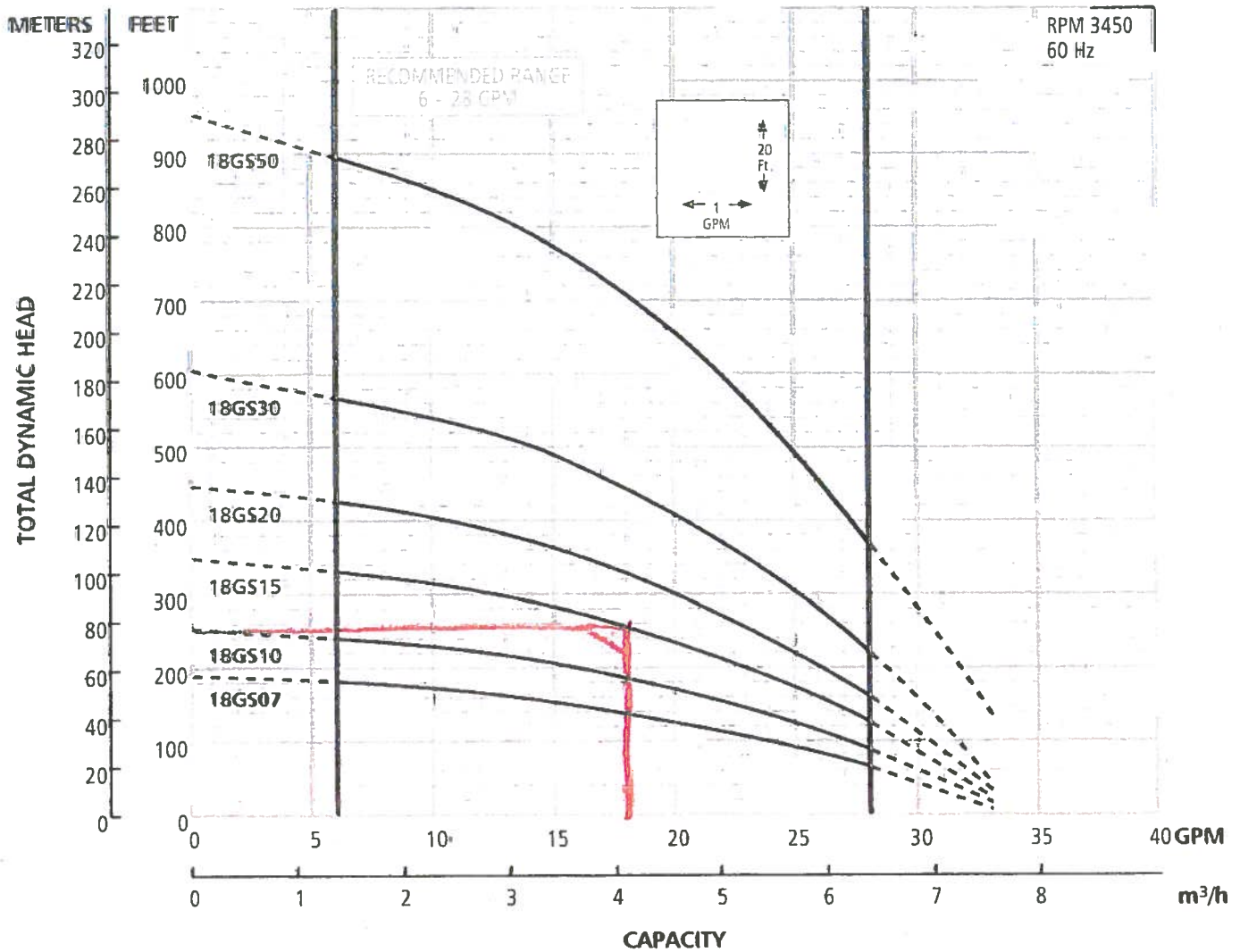
Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #	Ten-Minute Average
7/22/2013 11:55:13	104	1523405	969	0	
7/22/2013 11:56:14	103	1523508	969	0	
7/22/2013 11:57:13	104	1523612	969	0	
7/22/2013 11:58:13	103	1523713	969	0	
7/22/2013 11:59:14	103	1523819	969	0	
7/22/2013 12:00:13	103	1523917	969	0	
7/22/2013 12:01:13	102	1524024	969	0	
7/22/2013 12:02:13	102	1524124	969	0	
7/22/2013 12:03:13	0	1524130	969	1	
7/22/2013 12:04:15	104	1524149	969	0	
7/22/2013 12:05:13	98	1524251	969	0	85
7/22/2013 12:06:13	96	1524348	969	0	84
7/22/2013 12:07:13	94	1524443	969	0	83
7/22/2013 12:08:13	94	1524539	969	0	83
7/22/2013 12:09:13	95	1524633	969	0	81
7/22/2013 12:10:13	95	1524729	969	0	81
average	94 gpm (all records)				
average	100 gpm (excluding 12:03:13 record)				
average	0.22 cfs (excluding 12:03:13 record)				

The 12:03:13 record is inconsistent with the other records and appears to be an anomaly. Examiner recommends excluding the 12:03:13 measurement and using an average flow of 100 gpm.

Permit: 63-31664
 Owner: Mann Farms
 Site Name: Well #7
 POD Location: 6N 6W 25 NWSE
 Tag No: D0048278
 Meter: GE TransPort PT878
 Operator: Scott King

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #	Observed Flow (gpm)	Ten-Minute Average (gpm)
7/22/2013 12:40:09	0	1525374	969	1		
7/22/2013 12:41:09	0	1525393	969	1		
7/22/2013 12:42:10	85	1525403	969	0	88	
7/22/2013 12:43:09	0	1525425	969	2	86	
7/22/2013 12:44:09	88	1525482	969	1	91	
7/22/2013 12:45:11	125	1525553	969	1	124	
7/22/2013 12:46:09	53	1525639	969	0	98	
7/22/2013 12:47:09	0	1525678	969	1	84	
7/22/2013 12:48:09	0	1525690	969	1	90	
7/22/2013 12:49:10	0	1525708	969	1	93	
7/22/2013 12:50:10	105	1525733	969	0	101	36
7/22/2013 12:51:09	73	1525784	969	0	77	39
7/22/2013 12:52:10	0	1525822	969	1	91	42
7/22/2013 12:53:09	0	1525859	969	1	100	43
7/22/2013 12:54:09	0	1525885	969	1	103	40
7/22/2013 12:55:09	102	1525922	969	1	100	37
average	39 gpm, all records				95	40
average	90 gpm, non-zero records					
average	0.20 cfs, non-zero records					

During this flow measurement, examiner could hear air in the discharge piping which is reflected in the "low signal" flowmeter errors. Examiner wrote down observed flows every minute. These observed rates are consistent with the logged instantaneous flow rates. Examiner recommends the average of the observed flows (95 gpm).

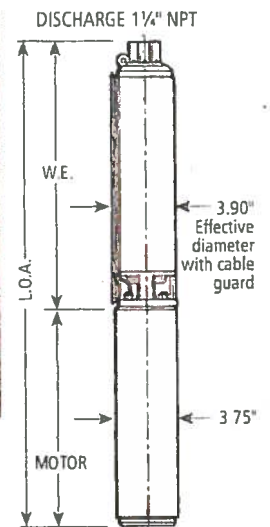


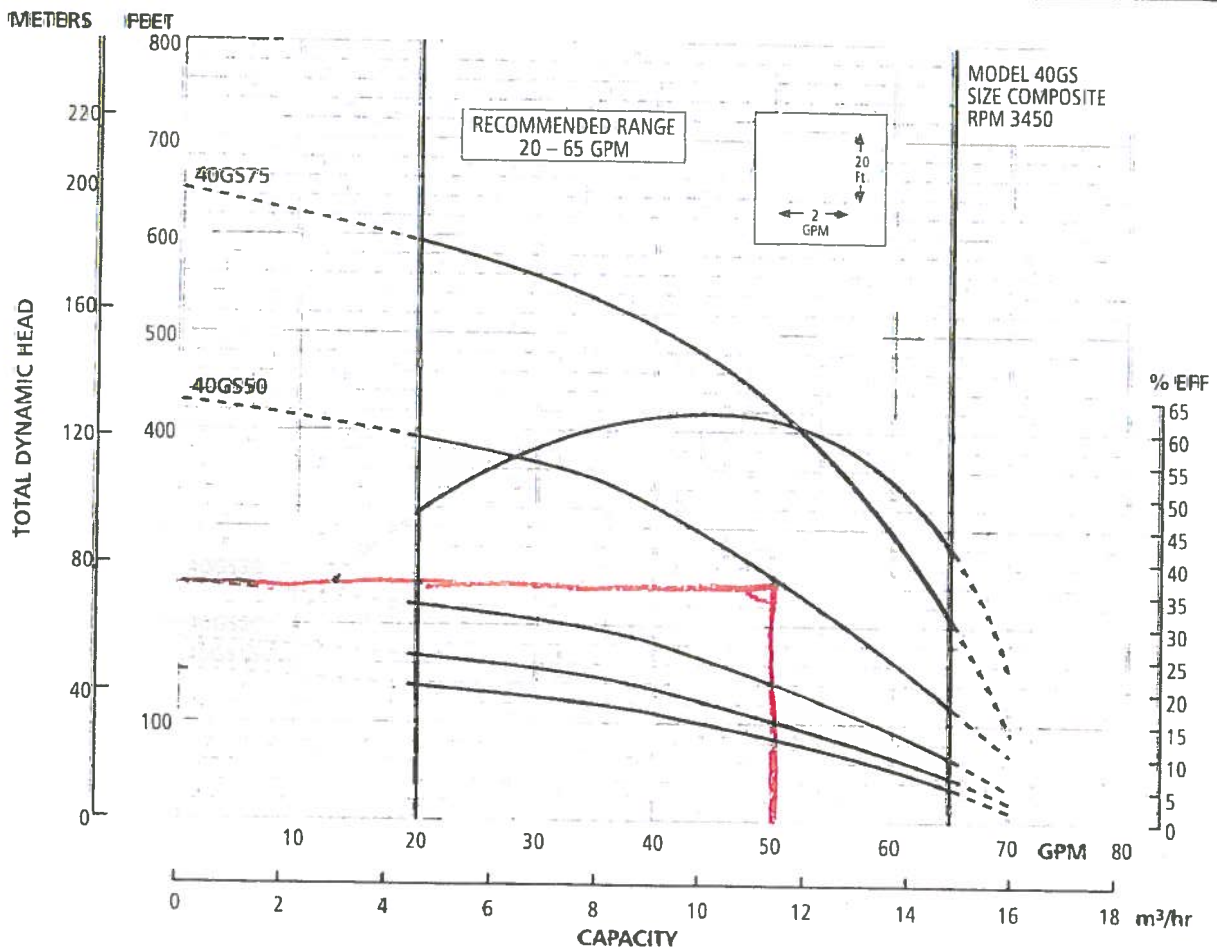
DIMENSIONS AND WEIGHTS

Model	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.②	Motor	L.O.A.③	W.E.	Motor	Total
18GS07412,22	¾	1	6	11.3	10.7	22.0	6	21	27
18GS10412,22	1	1	8	13.0	11.8	24.8	7	24	31
18GS15412	1½	1	11	15.5	13.6	29.1	9	28	37
18GS15422	1½	1	11	15.5	15.1	30.6	9	31	40
18GS15432,34	1½	3	11	15.5	11.8	27.3	9	24	33
18GS20412	2	1	14	18.1	15.1	33.2	10	33	43
18GS20432,34	2	3	14	18.1	13.6	31.7	10	28	38
18GS30412	3	1	19	22.4	19.1	41.5	12	41	53
18GS30432,34	3	3	19	22.4	16.1	38.5	12	35	47
18GS50412	5	1	30	32.9	28.2	61.1	17	70	87
18GS50432,34	5	3	30	32.9	22.2	55.1	17	55	72

② W.E. = water end or pump without motor.

③ L.O.A. = length of assembly - complete pump - water end and motor.





DIMENSIONS AND WEIGHTS

HP	Stages	W.E. Order No.	Motor Order No.	PH	Motor Volts	Motor Length	W.E.① Length	L.O.A.②	W.E. and Motor Weight
1½	5	40GS15	S07940	1	230	13.6	13.0	26.6	36
			S07978		200				
			S07970	3	230	11.8	13.0	24.8	31
			S07975		460				
			S07979		575				
2	6	40GS20	S08940	1	230	15.1	14.2	29.3	37
			S08978		200				
			S08970	3	230	13.6	14.2	27.8	35
			S08975		460				
			S08979		575				
3	8	40GS30	S09940	1	230	19.1	16.6	35.7	51
			S09978		200				
			S09970	3	230	16.1	16.6	32.7	45
			S09975		460				
			S09979		575				
5	14	40GS50	S10940	1	230	28.2	24.0	52.2	78
			S10978		200				
			S10970	3	230	22.2	24.0	46.2	61
			S10975		460				
			S10979		575				
7½	21	40GS/5	S119784		200				
			S119704	3	230				
			S119754		460				
			S119794		575				

NOTES:

For complete pump, order water end and motor.

① W.E. = water end or pump without motor.

② L.O.A. = length of assembly - complete pump - water end and motor.

25278

1. WELL TAG NO. D

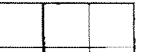
DRILLING PERMIT NO. 872216 779640

Other IDWR No. with 63-31298 63-21364

2. OWNER: Mann Farms
Name
Address 31801 Mann Lane
City Parma State ID Zip 83660

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 6 North ~~XX~~ or South ☐
 Rge. 6 East ☐ or West ~~XX~~
 Sec. 25 1/4 **N/W** 1/4 **S/E** 1/4
 Gov't Lot _____ 10 acres County **Canyon** 10 acres 150 acres
 Lat. : : : Long. : : :
 Address of Well Site 31801 Mann Ln.
 City Parma

(Give at least name of road + Distance to road or Landmark)

Lt.	Blk.	Sub.	Name
-----	------	------	------

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation stock
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

	SEAL/FILTER PACK			AMOUNT	METHOD
	Material	From	To	Sacks or Pounds	
bentonite chips	0	15	10 sk	poured	
bentonite grout	15	38	13 sk	pumped	
#10-20 sand	38	94	13,000#	poured	

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Y ☐ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
20	0	30	375	steel	XX	☐	XX	☐
14	+2	64	250	steel	☐	XX	XX	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type **Johnson 304**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
64	94	20		10	stnls	☐	XX
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

13 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or
control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments:

Depth first Water Encounter

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

[illegible]

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Stevens & Sons Firm No. 153

Firm Official [Signature] Date 9/6/02

and
Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0046509
DRILLING PERMIT NO. 894201-839564
Water Right or Injection Well No. 63-21364

2. OWNER:

Name MANN FARMS
Address 31801 MANN LANE
City PARMA State ID Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 6 North ☒ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 25 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County CANYON
Lat: _____ Long: _____Address of Well Site M+M FEEDLOT, 31801
MANN LANE City PARMA

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other LIVESTOCK

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other REPLACEMENT (Replacement etc.)

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight	Volume	Seal Placement Method
BENTONITE	0	30	2.800		DRY POUR
BENTONITE	65	220	15.000		

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8"	+2	41	.220	STEEL	☒	☐	☒	☐

REDUCER 7X8" @ 41'Length of Headpipe N/A Length of Tailpipe N/APacker ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
41	61	.030		7"	S.S.	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
#8-12 SAND	65	65	5.000	DRY POUR

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

12 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____SANITARY WELL CAP

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
125 gpm	25'	37'	6 hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
15"	0	4	TOP SOIL		
	4	28	SAND, GRAVEL, RIVER COBBLES		
	28	37	CLAY		
	37	61	FINE-COARSE SAND (BLUE)		
	61	77	DARK GREY SANDSTONE		
	77	80	GREY SILTSTONE		
	80	102	GREY CLAY		
	102	104	FINE BLACK SAND		
	104	116	GREY CLAY		
	116	120	FINE BLACK SAND		
	120	135	GREY CLAY		
	135	153	FINE BLACK SAND w/SM CLAY LAYERS		
	153	179	GREY CLAY		
	179	190	FINE BLACK SAND w/SM CLAY LAYER		
	190	194	GREY CLAY		
	194	195	GREY SANDSTONE		
	195	196	FINE BLACK SAND		
	196	220	GREY CLAY		

RECEIVED

JUN 22 2006

WATER RESOURCES
WESTERN REGIONCompleted Depth 61' (Measurable)Date Started 5-10-06 Completed 6-16-06

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name RIVERSIDE INC Firm No. 333Principal Driller [Signature] Date 6-20-06
and Driller or Operator II [Signature] Date 6-20-06
Operator I [Signature] Date 6-20-06

Principal Driller and Rig Operator Required.

Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
6/02IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTOffice Use Only
Well ID No. 417821
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____1. WELL TAG NO. D 0048279
DRILLING PERMIT NO. 900896-847845
Water Right or Injection Well No. 63-31664

2. OWNER:

Name MANN FARMS
Address 31801 MANN LN
City PARMA State ID Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub or Directions to well.

Twp. 6 North X or South _____
Rge. 6 East _____ or West X
Sec. 25 SE 1/4 SE 1/4 NW 1/4
Gov't Lot _____
Lat: 43:49:770 Long: 117:00:275
Address of Well Site NEAR 31801 MANN LN
City PARMA

Li _____ Blk _____ Sub Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other LIVESTOCK

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight	Volume	Seal Placement Method
<u>BENTONITE</u>	<u>0</u>	<u>120</u>	<u>20,000</u>		<u>Dry Pour</u>

Was drive shoe used? Y ☒ N Shoe Depth(s) _____Was drive shoe seal tested? Y ☐ N How? _____8. CASING/LINER: REDUCER 10"x6" @ 138' to 139'

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>10"</u>	<u>128</u>	<u>138</u>	<u>.250</u>	<u>STEEL</u>	<u>X</u>		<u>X</u>	
<u>6"</u>	<u>149</u>	<u>175</u>	<u>.250</u>	<u>STEEL</u>	<u>X</u>		<u>X</u>	
<u>6"</u>	<u>181</u>	<u>201</u>	<u>.250</u>	<u>STEEL</u>	<u>X</u>		<u>X</u>	

Length of Headpipe N/A Length of Tailpipe N/APacker ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>139</u>	<u>149</u>	<u>.030</u>		<u>6"</u>	<u>S.S.</u>	<u>X</u>	
<u>175</u>	<u>181</u>	<u>.020</u>		<u>6"</u>	<u>S.S.</u>	<u>X</u>	
<u>201</u>	<u>201</u>	<u>.030</u>		<u>6"</u>	<u>S.S.</u>	<u>X</u>	

10. FILTER PACK

Filter Material	From	To	Weight	Volume	Placement Method
<u>#10-20 SAND</u>	<u>120</u>	<u>290</u>	<u>30,000</u>		<u>Dry Po</u>
<u>BACK FILL</u>	<u>290</u>	<u>325</u>	<u>DRILL</u>		<u>CUTTINGS</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

14 ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

2" PIPE ON SIDE

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min	Drawdown	Pumping Level	Time
<u>145</u>	<u>77.6</u>	<u>91.6</u>	<u>4 HRS</u>

Water Temp. _____

Bottom hole temp _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>19</u>	<u>0</u>	<u>30</u>	<u>SAND, GRAVEL, RIVER ROCK</u>		<u>X</u>
	<u>30</u>	<u>46</u>	<u>SAND</u>	<u>X</u>	
	<u>46</u>	<u>52</u>	<u>BLUE CLAY</u>		<u>X</u>
	<u>52</u>	<u>56</u>	<u>FINE SAND</u>	<u>X</u>	
	<u>56</u>	<u>57</u>	<u>HARD SANDSTONE</u>		<u>X</u>
	<u>57</u>	<u>139</u>	<u>BLUE CLAY w/SM SAND STREAKS</u>		<u>X</u>
	<u>139</u>	<u>145</u>	<u>FINE SAND</u>	<u>X</u>	
	<u>145</u>	<u>147</u>	<u>BLUE CLAY</u>		<u>X</u>
	<u>147</u>	<u>148</u>	<u>FINE SAND</u>	<u>X</u>	
	<u>148</u>	<u>172</u>	<u>BLUE CLAY</u>		<u>X</u>
	<u>172</u>	<u>177</u>	<u>GREY CLAY</u>		<u>X</u>
	<u>177</u>	<u>181</u>	<u>FINE SAND</u>	<u>X</u>	
	<u>181</u>	<u>200</u>	<u>GREY CLAY</u>		<u>X</u>
<u>19</u>	<u>200</u>	<u>202</u>	<u>GREY CLAY w/SANDSTONE STREAK</u>	<u>X</u>	
	<u>202</u>	<u>249</u>	<u>GREY CLAY</u>		<u>X</u>
	<u>249</u>	<u>253</u>	<u>FINE- COARSE SAND</u>	<u>X</u>	
	<u>253</u>	<u>282</u>	<u>GREY CLAY</u>		<u>X</u>
	<u>282</u>	<u>286</u>	<u>FINE SAND</u>	<u>X</u>	
	<u>286</u>	<u>325</u>	<u>GREY CLAY</u>		<u>X</u>

RECEIVED

JUN 18 2008

WATER RESOURCES
WESTERN REGIONCompleted Depth 286' (Measurable)
Date Started 4-17-08 Completed 5-19-08

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name RIVERSIDE INC Firm No. 333Principal Driller [Signature] Date 6-16-08and Driller or Operator II [Signature] Date 6-16-08

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Office Use Only		
Well ID No.	811487	
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat:	:	Long:
:	:	:

1. WELL TAG NO. D CO31063
 DRILLING PERMIT NO. _____
 Water Right or Injection Well No. _____

2. OWNER:

Name Mann Farms
 Address 31801 Mann Lane
 City Perma State ID Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp 6 North ☒ or South ☐
 Rge 6 East ☐ or West ☒
 Sec. 25 1/4 NE 1/4 SW 1/4
 Gov't Lot _____ County Canyon

Lat: _____ Long: _____
 Address of Well Site 31801 Mann Lane
M/m Feed lot City Perma
 (Give at least name of road + distance to road or landmark)
 Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Stock

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other Reverse

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 Bentonite</u>	<u>0</u>	<u>115</u>	<u>3.75 yds</u>	<u>Dry Pow</u>

Was drive shoe used? ☐ Y ☐ N Shoe Depth(s) _____
 Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>10"</u>	<u>115</u>	<u>127</u>	<u>3/16</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____
 Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
 Screen Type & Method of Installation SS. Wirewrap

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>127</u>	<u>157</u>	<u>.025</u>		<u>10"</u>	<u>SS</u>	☒	☐
<u>157</u>	<u>177</u>	<u>.035</u>		<u>10</u>	<u>SS</u>	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>Sand</u>			<u>3 yds</u>	<u>dry pow</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

A' ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Describe access port or control devices:
Sanitary Well Cap

12. WELL TESTS:

☒ Pump	☐ Bailor	☐ Air	☐ Flowing Artesian
Yield gal./min.	Drawdown	Pumping Level	Time
<u>300 gpm</u>	<u>76</u>	<u>95'</u>	<u>5 Hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore No.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
15	0	2	top Soil		
	2	10	Gravel w/ some clay		
	10	39	Sand, gravel		
	39	49	Blue Clay		
	49	52	fine Blue Sand		
	52	91	Blue Clay w/ layers of hard sandstone		
	91	128	Blue Clay w/ fine sand		
	128	130	fine to coarse sand, gravel		
	130	132	Blue Clay		
	132	177	fine sand w/ gravel layers, and Blue clay		

RECEIVED

MAY 21 2004

WATER RESOURCES
WESTERN REGION

Completed Depth _____ (Measurable)
 Date: Started 4-19-04 Completed 5-7-04

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Liverside & Inc Firm No. 333

Principal Driller _____ Date _____
 and
 Driller or Operator [Signature] Date 5-19-04
 Operator I _____ Date _____

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Well #7

1. WELL TAG NO. D 0048278
 DRILLING PERMIT NO. 903220-850207
 Water Right or Injection Well No. 63-31664

2. OWNER:
 Name MANN FARMS
 Address 31801 MANN LN
 City PARMA State ID Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 6 North ☒ or South ☐
 Rge. 6 East ☐ or West ☒
 Sec. 25 SW 1/4 NW 1/4 SE 1/4
 Gov't Lot _____ County CANYON

Lat: 43:49:550 Long: 114:0:219

Address of Well Site NEAR 31801 MANN LN

City PARMA

Li. _____ Blk. _____ Sub. Name Well #7

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other LIVESTOCK

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
1" BENTONITE CHIPS	0	80	10,000	DRY POUR
1" BENTONITE CHIPS	165	200	4,500	DRY POUR

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER: 10"X6" REDUCER @ 110'

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
10	12	110	.250	STEEL	☒	☐	☒	☐
6	120	153	.250	STEEL	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
110	120	.030		6	S.S.	☒	☐
153	163	.030		6	S.S.	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
#8-12 CSSISAND	80	165	12,000	DRY POUR

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

27' ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

1 1/2" PIPE ON SIDE

12. WELL TESTS:

☒ Pump	☐ Bailor	☐ Air	☐ Flowing Artesian
Yield gal./min. <u>250</u>	Drawdown <u>64</u>	Pumping Level <u>91</u>	Time <u>7 hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
18.5	0	1	TOP SOIL		☒
	1	12	ROCK		☒
	12	21	SAND		☒
	21	41	ROCK	☒	
	41	68	BLUE CLAY w/ SOME SAND	☒	
	68	79	FINE SAND	☒	
	79	110	BLUE CLAY		☒
	110	112	FINE - COARSE SAND	☒	
	112	113	SANDSTONE		☒
	113	121	FINE - COARSE SAND	☒	
	121	122	BLUE CLAY		☒
	122	123	FINE SAND	☒	
	123	130	BLUE CLAY		☒
	130	132	FINE SAND	☒	
	132	153	BLUE CLAY		☒
	154	158	FINE - COARSE SAND w/ PEA GRAVEL		
	158	159	BLUE CLAY		☒
	159	161	FINE - MED. SAND	☒	
	161	175	BLUE CLAY		☒
	175	177	FINE SAND	☒	
	185	177	200 BLUE CLAY		☒

RECEIVED

JAN 28 2008

WATER RESOURCES
WESTERN REGION

Completed Depth 163' (Measurable)

Date: Started 11-26-08 Completed 1-11-08

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name RIVERSIDE INC Firm No. 333

Principal Driller [Signature] Date 1-23-08

and Driller or Operator II [Signature] Date 1-23-08

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

847630

Well #8

1. WELL TAG NO. D 0048277
DRILLING PERMIT NO. 900721-847630
Water Right or Injection Well No. 63-31664

2. OWNER:
Name MANN FARMS
Address 31801 MANN LN
City PARMA State ID Zip 83660

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 6 North ☒ or South ☐
Rge. 6 East ☐ or West ☒
Sec. 25 SW 1/4 SW 1/4 NE 1/4
Gov't Lot CANYON

Lat: 43:49:835 Long: 117:0:202
Address of Well Site NEAR 31801 MANN LN
City PARMA

Lt. Blk. Sub. Name

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other LIVESTOCK

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>BENTONITE</u>	<u>0</u>	<u>18</u>	<u>800</u>	<u>DRY POUR</u>

Was drive shoe used? ☒ N ☐ Shoe Depth(s) 37'

Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>10</u>	<u>+2</u>	<u>37</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>8</u>	<u>32</u>	<u>37</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe 5' Length of Tailpipe

Packer ☒ N ☐ Type K-PACKER

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>37</u>	<u>47</u>	<u>.018</u>	<u></u>	<u>7"</u>	<u>S.S.</u>	☒	☐
<u>47</u>	<u>57</u>	<u>.010</u>	<u></u>	<u>7"</u>	<u>S.S.</u>	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>	<u></u>	<u></u>	<u></u>	<u></u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

11 ft. below ground Artesian pressure lb.
Depth flow encountered ft. Describe access port or control devices: SANITARY WELL CAP

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>40-50</u>	<u></u>	<u>37</u>	<u>1 hr</u>

Water Temp. 64° Bottom hole temp.

Water Quality test or comments:

13. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>16</u>	<u>0</u>	<u>3</u>	<u>TOP SOIL</u>	☐	☒
<u>"</u>	<u>3</u>	<u>18</u>	<u>GRAVEL</u>	☐	☒
<u>10</u>	<u>18</u>	<u>27</u>	<u>GRAVEL w/ BLUE SAND</u>	☒	☐
<u>(</u>	<u>27</u>	<u>36</u>	<u>BLUE CLAY STREAK of GRAVEL</u>	☒	☐
<u>36</u>	<u>42</u>	<u>42</u>	<u>GRAVEL w/ BLUE SAND</u>	☒	☐
<u>42</u>	<u>60</u>	<u>60</u>	<u>BLUE CLAY w/ SAND LAYER</u>	☒	☐

RECEIVED

AUG - 1 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 57' (Measurable)

Date: Started 7-11-07 Completed 7-13-07

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name RIVERSIDE INC Firm No. 333

Principal Driller [Signature] Date 7-25-07

Driller or Operator II [Signature] Date 7-25-07

Operator I [Signature] Date

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

733261

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
_____ 1/4 _____ 1/4 _____ 1/4
Lat: : : Long: : :
☒ Pump ☒ Bailer ☒ Air ☐ Flowing Artesian

1. WELL TAG NO. D 0009401 Original# D0001703
DRILLING PERMIT NO. 6399 W-0376-100
Other IDWR No. _____

2. OWNER:

Name Mann Ranch
Address 31801 Mann Lane
City Parma State Id Zip 83660

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 06 North ☒ or South ☐
Rge. 086 East ☐ or West ☒
Sec. 25 1/4 SW 1/4 NE 1/4
Gov't Lot _____ County Canyon
Lat: 43:49.850 Long: 117:0.0167
Address of Well Site same as above
City _____
(Give at least name of road + Distance to Road or Landmark)

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☒ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD D0009401 D0001703 org.

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Perma Plug					In annular
Bentonite	2	?	50#		space added
to existing seal already in place					

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 180'

Was drive shoe seal tested? ☒ Y ☐ N How? Bailed Down

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2'	180	.25	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____

Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

12 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: Well Cap

11. WELL TESTS:

☐ Pump ☒ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
45	24	36	1
55	26	38Est	2.8

Water Temp. 62 Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 56

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
6	0	56	Existing Tag# D0001703	X	
6	56	70	Brown Clay		X
6	70	146	Blue Sandy Clay		X
6	146	146	Black Sand	X	
6	146	182	Blue Clay		X
6	182	?	Black Sand	X	
This Well was deepen & also used to replace a 6" well in a pit with no record to my knowledge					
RECEIVED					
JUN 15 1999					
WATER RESOURCES WESTERN REGION					

Completed _____ Depth 180' (Measurable)

Date: Started 24 May 1999 Completed 27 May 99

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Gary Duspiwa Well Drilling
Company Name & Development Firm No. 395

Firm Official [Signature] Date 13 June 99

and
Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

(Sign once if Firm Official & Operator)



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

March 19, 2014

MANN FARMS
31801 MANN LN
PARMA ID 83660

RE: Water Right Permit No. 63-31298

Dear Permit Holders:

The Department of Water Resources is reviewing the permit referenced above prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit. The examiner who verified your water use reported that certain elements of the permit have been developed differently than described on your permit. Changes that do not increase the authorized use of water under the permit can be requested and approved in accordance with Section 42-211, Idaho Code. Before a license can be issued, your permit must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit:

☒ **Points of Diversion**

☒ **Places of Use**

The enclosed Application for Amendment form depicts the elements of the water right as they will appear on the license when it is issued. Please review the amendment form carefully. If you concur with the information presented, please sign the form and return it with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208)334-2190.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure