

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

AUG 01 2013

DEPARTMENT OF
WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-316641. Owner Mann FarmsPhone No. 208-722-9039Current address 31801 Mann Lane, Parma, ID 836602. Examiner's name Scott King, P.E. (Examiner No. 12-133)EXAM DATE 12/9/20113. Accompanied by Kent Mann & Salvador Rodriguez (operator)

Email _____

Address _____

Relationship to permit holder Owner

Phone No. _____

4. Source Ground Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use 63-2587B,-4261A,-21364,-31291 to -31295,-31298, -32395 & *2. Other water rights with the same source and point of diversion 63-21364, -31292 to -32195, -31298, -33528

*63-33528, Farmers Coop Ditch Co.

C. DIVERSION AND DELIVERY SYSTEM1. Point(s) of Diversion: See Attachment B

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks

2. Place(s) of Use: Method of determination Aerial photo, exam

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
6N	6W	25			S	S				S	S	S		S	S	S			

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" = _____

- ☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
See attached					

*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
Flowmeter	Ultrasonic	GE	PT878	07140	variable	3/27/2013

2. **Measurements:** _____

See attachment for measurements of Wells #3, 4, 6, 7 and 8. Due to small pipe sizes, discharge from wells 1, 2 and 5 could not be successfully measured.

E. NARRATIVE/REMARKS/COMMENTS

Eight wells with submersible pumps provide ground water for stockwater use at a dairy cow replacement facility. Mann Farms reports they have maintained at least 12,000 stock at this facility during this permit's development period.

The place of use for Pace-Nielsen Farms' irrigation right 63-2587A partially overlaps this permit's stockwater place of use. Kent Mann reports that Pace-Nielsen maintained ownership of overlapping portions of this right when Mann Farms purchased the land.

Examiner recommends 4000 more stock, per this permit, added to existing 8000 head feedlot.

Summary of facility stock water right coverage preceding this permit is as follows:

1000 head covered by decree 63-21364, 1944 priority date, 0.24 cfs, 13.4 afy (this w/w source not used)

1000 head covered by decree 63-31292, 1982 priority date, 0.31 cfs, 14.6 afy (at 13,000 gpd)

1500 head covered by decree 63-31293, 1963 priority date, 0.23 cfs, 20.2 afy

1000 head covered by decree 63-31294, 1976 priority date, 0.23 cfs, 14.6 afy (at 13,000 gpd)

1000 head covered by decree 63-31295, 1973 priority date, 0.23 cfs, 14.6 afy (at 13,000 gpd)

2500 head covered by permit 63-31298, 2001 priority date, 0.55 cfs. (Volume limit not yet determined)

This permit was amended in July, 2006, proposing up to eight new wells and three existing wells as shown on the map attached to the approved permit amendment (Attachment A). Proof of beneficial use was originally due in 6/1/2008, then extended to 6/1/2013 per an approved Request for Extension of Time.

Examiner recommends that when combined rights 63-21364, 63-31292, 63-31293, 63-31294, 63-31295, 63-31298, and 63-31664 be limited to 1.24 cfs, the combined use limit applied to the decreed water rights.

Water rights 63-21364, 63-31292, 63-31293, 63-31294, and 63-31295 provide a combined annual volume of 77.3 acre feet. Examiner recommends that permit 63-31298 receive a volume of 33.6 afy (for 2500 head), and permit 63-31664 receive a volume of 53.8 afy for 4000 head of stock developed during this permit's period.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

Permit 63-31664 was conditioned with a mitigation requirement. Right 63-2587B was changed to reflect this requirement and it appears that the mitigation requirements are being followed (the land is no longer irrigated).

F. FLOW CALCULATIONS☒ Additional computation sheets attached

Measured Method:

Flow from Wells 3, 4, 6, 7, and 8 was directly measured with a total discharge of 415 gpm or 0.92 cfs (see attached records). Flow for wells #3 and #8 were combined in the same measurement. Discharge from wells 1, 2 and 5, combined is estimated to total at least 0.17 cfs.

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Stockwater requirements for 12,000 head:

$$(12,000 \text{ head} \times 12 \text{ gpd/head} \times 365 \text{ days/yr}) / (325,850 \text{ gallons / af}) = 161 \text{ acre feet per year}$$
Well capacity: $1.09 \text{ cfs} \times 1.9835 \text{ af/day} \times 365 \text{ days/yr} = 792 \text{ acre feet per year}$.

Recommend the smaller of 161 acre feet per year.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Stockwater	1/1	12/31	0.44 cfs	53.8
Totals:			0.44 cfs	53.8

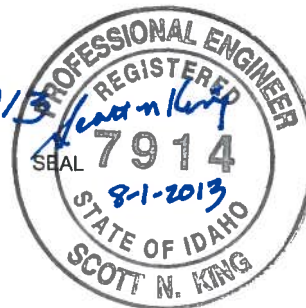
2. Recommended Amendments

- ☒ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☐ None
☐ Change P.U. as reflected on page 1 ☒ Add P.U. as reflected on page 1 ☐ Other

I. AUTHENTICATIONField Examiner's Signature Scott N. KingDate August 1, 2013

Reviewer _____

Date _____



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Amendment of Permit

NO. 63-31664

Priority: February 20, 2003

Maximum Diversion Rate: 0.44 CFS

This is to certify, that **MANN FARMS**
31801 MANN LN
PARMA ID 83660

has applied for an amendment of a permit and the amendment is APPROVED for development of water as follows:

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
STOCKWATER	01/01 to 12/31	0.44 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER	SW¼NE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	SW¼NE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NE¼SW¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NE¼SW¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SW¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SW¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	NW¼SE¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County
GROUND WATER	SE¼NW¼	Sec. 25, Twp 06N, Rge 06W, B.M. CANYON County

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			

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **June 01, 2008**.
2. Subject to all prior water rights.
3. Stockwater use is for 2000 dairy cattle.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.

State of Idaho
Department of Water Resources
Amendment of Permit

NO. 63-31664

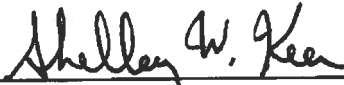
5. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to determine the amount of water diverted from power records and shall annually report the information to the Department.
6. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
7. To mitigate for the depletion of water resulting from the use of water under this right and to prevent injury to senior water right holders, the right holder shall cease diverting and using water as authorized by the following water rights for the purposes and amounts specified below. Moreover, the official record for the following water right will be changed to show that diversion and use of water is not authorized because the rights, or portion thereof, are being dedicated to mitigation purposes.

Right No.	Use Changed to Mitigation	Mitigation Rate (cfs)	Mitigation Volume (AF)	Mitigation Acres
63-2587B	Irrigation	0.18	40.5	9.0

The land that will no longer be irrigated under this right is located within the NWSE and NESW, Section 25, Township 06N, Range 06W, B.M.

If the specified mitigation right, or portion thereof, is sold, transferred, leased, used on any place of use, or is not deliverable due to a shortage of water or a priority call, then the amount of water authorized for diversion under this permit approval shall be reduced by the same proportion as the reduction to the mitigation rights.

This amendment of permit is issued pursuant to the provisions of Section 42-211, Idaho Code. Witness the signature of the Director, affixed at Boise, this 16th day of May, 2007.


for DAVID R. TUFHILL, JR., Director

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY

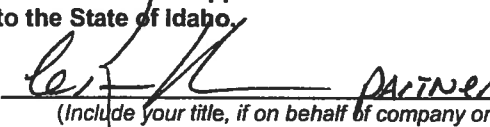
Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed** and that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No.: 63-31664 Telephone No.: 208-722-9039
2. Name of Permit Holder(s): Mann Farms
3. Mailing Address: 31801 Mann Ln. City: Parma
State: ID Zip: 83660 Email: _____
4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. _____ / yr. _____
Well Driller: see attached list Drilling Permit Number: _____
5. Extent of use(s) completed (as authorized by the water right permit):
Domestic (No. of households): _____ Stockwater (No. and type of stock): 2000 dairy cattle
Irrigation (No. of acres): _____ Other: _____
6. Total rate of diversion or storage volume for which proof is submitted: 0.44 cfs OR _____ acre-feet.
7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit: **Refer to the approval conditions on your permit and respond accordingly. The Department will not issue a license if permit conditions are not met.**
Measuring Device: Is a measuring device required? Yes ☐ No ☒
If yes, has the measuring device been installed? Yes ☐ No ☐
Lockable Controlling Device: Is a lockable device required to control the diversion? Yes ☐ No ☒
If yes, has the lockable device been installed? Yes ☐ No ☐
Other Conditions of Permit: Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

Completed? Yes ☐ No ☒
8. Fee Enclosed: \$_____ See fee schedule on back of the instructions for filing proof of beneficial use.
Proofs filed without an appropriate fee, will be considered incomplete.
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: _____ Telephone Number: _____
Mailing Address: _____ City: _____
State: _____ Zip: _____ Email: _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder:  Date: 7-22-13
(Include your title, if on behalf of company or organization)

Mail to: Idaho Department of Water Resources, PO Box 83720, Boise, ID 83720-0098

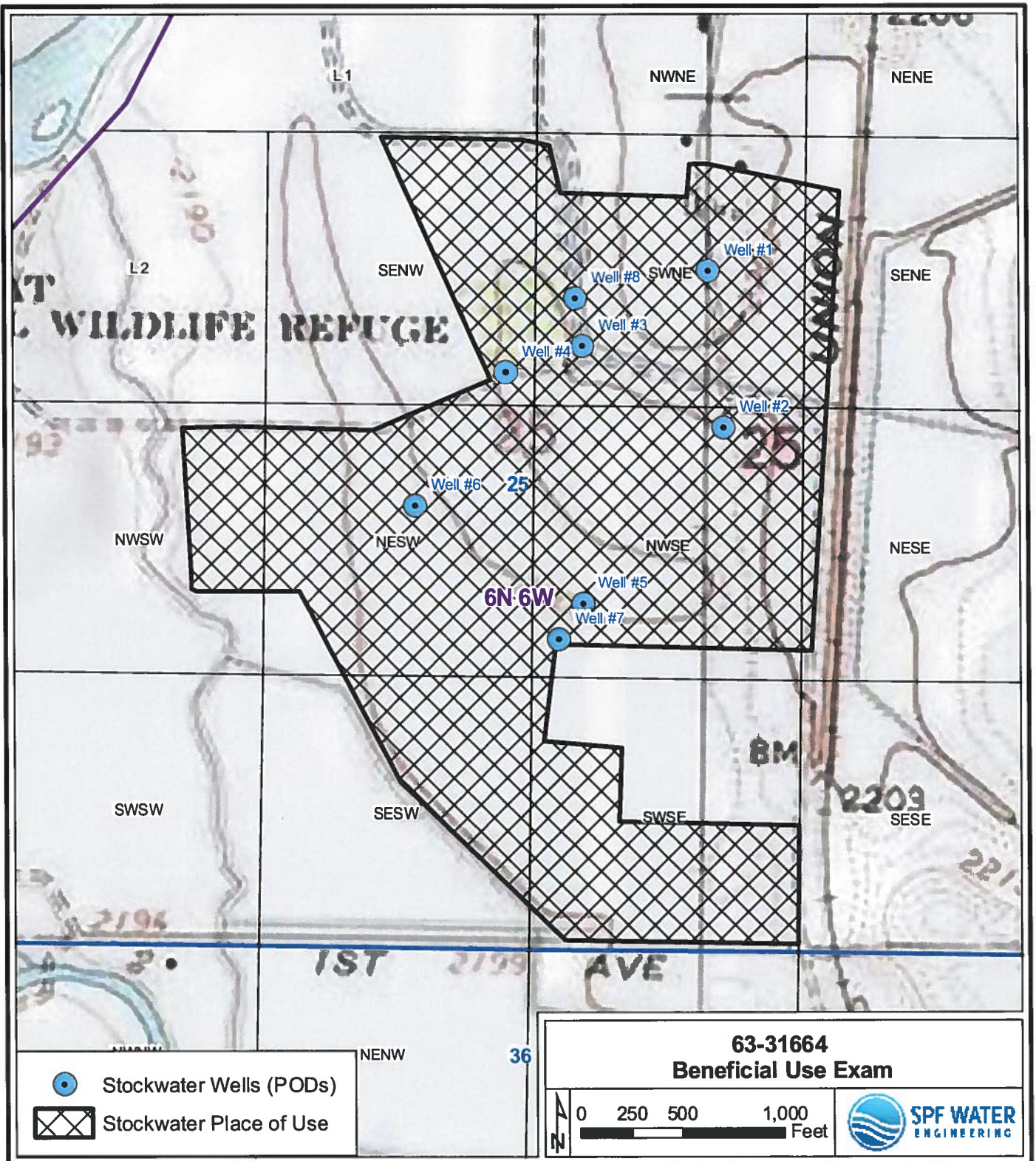
ATTACHMENT B

EXAM ITEM C.1. POINTS OF DIVERSION

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

ATTACHMENT C
TOPO MAP AND 2011 AERIAL PHOTO





ATTACHMENT D
PHOTOS



Figure 1: Well #1

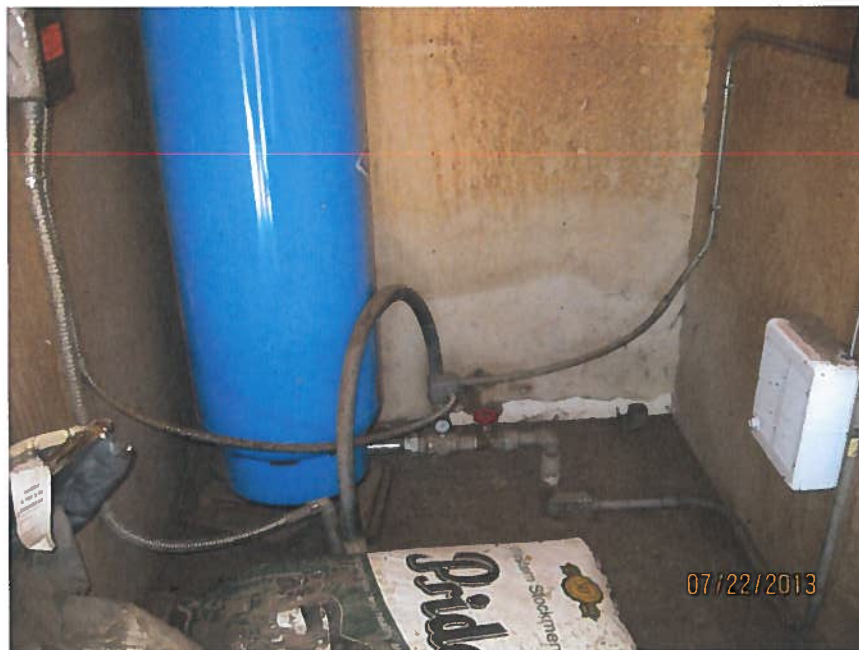


Figure 2: Well 1 pump house.



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.

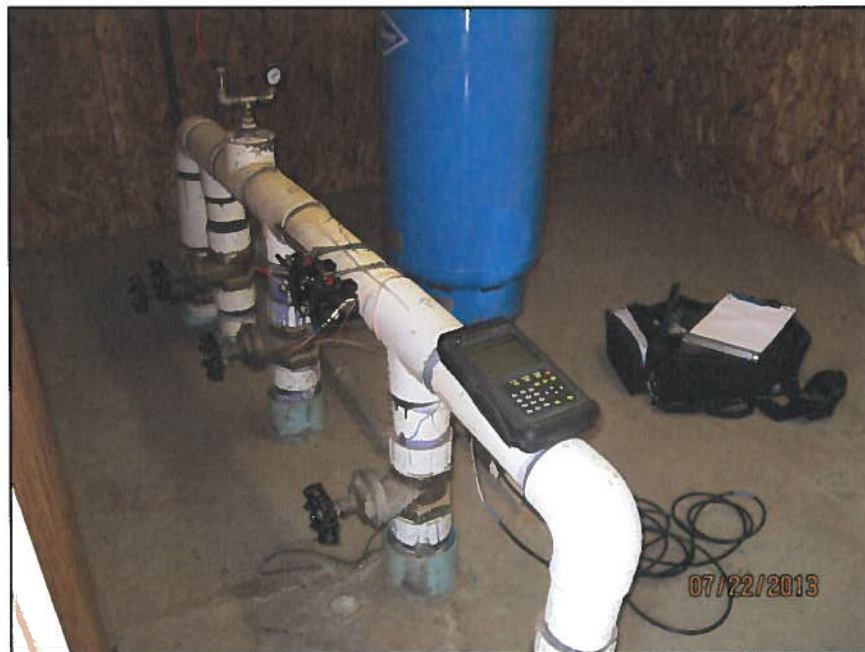


Figure 6: Wells #3 & #8 pump house plumbing. Valves were adjusted to measure all flow.



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 (D0048278).



Figure 14: Well #7 pump house plumbing.



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

ATTACHMENT E

EXAM ITEM C.4. MOTOR AND PUMP DATA

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.

ATTACHMENT F
DISCHARGE MEASUREMENTS

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).

ATTACHMENT G
WELL LOGS AND PUMP CURVES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

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

1. DRILLING PERMIT NO. 63-98-W-0245-000
Other IDWR No. D001703

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. 036 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

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

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Perma Plug Bentonite	1	20	675#		In annular space

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 52
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	1'9"	52	.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:

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

11. WELL TESTS:

☐ Pump ☒ Bailer

Yield gal./min.	Drawdown	Pumping Level	Time
20	23	36	1
22	23	36	3

Water Temp. 61 Bottom hole temp. _____

Water Quality test or comments: 25 grains

Depth first Water Encountered 20

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10	0	2	Soil		X
10	2	5	Brown Sandy Clay		X
10	5	6	Hardpan		X
10	6	10	Brown Sandy Clay		X
10	10	13	Multicolor Gravel & Sand		X
10	13	20	Brown Sandy Clay		X
6	20	37	Multicolor Gravel & Sand	X	
6	37	40	Multicolor Gravel & Sand	X	
6	40	47	Multicolor Gravel & Sand	X	
6	47	50	Black Gravel & sand	X	
6	50	52	Black Gravel & Sand		X
6	52	54	Black Sand & Pea Gravel	X	

RECEIVED

MAY 11 1998

WATER RESOURCES
WESTERN REGION

Completed Depth 54 (Measurable)
Date: Started 23 April 1998 Completed 25 Apr 98

13. DRILLER'S CERTIFICATION

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

Gary Duspiva Well Drilling & Development Firm No. 395

Firm Official [Signature] Date 8 May 98

Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

25278

1. WELL TAG NO. D

DRILLING PERMIT NO. 872216 779640

Other IDWR No. W 6331298 6321364

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 ☒ or South ☐
 Rge. 6 East ☐ or West ☒
 Sec. 25 $\frac{1}{4}$ N/W $\frac{1}{4}$ S/E $\frac{1}{4}$
 Gov't Lot County Parma
 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
☐ 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 _____

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	Lines
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]

RECEIVED

~~SEP 25 2002~~

WATER RESOURCES
WESTERN REGION

Completed Depth 94' (Measurable)
Date: Started 8/20/02 Completed 9/5/02

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 _____ Date 9/6/02

and
Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. 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
 (Give at least name of road + Distance to Road or Landmark)

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	.200	STEEL	☒	☐	☒	☐
REDUCER 7x8 @ 41'					☐	☐	☐	☐

Length of Headpipe N/A Length of Tailpipe N/A

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
41	61	.030		7"	S.S.	☒	☐
						☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
#8-12 SAND	30	65	8.000	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	GREEN 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		

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JUN 22 2006

WATER RESOURCES
WESTERN REGION

Completed 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. 333

Principal 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.

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

PAGE 1003

847845

Well #4

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

Lat: 43:49:770 Long: 117:00:275Address 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 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 PO</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>+2</u>	<u>138</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>6"</u>	<u>149</u>	<u>175</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>6"</u>	<u>181</u>	<u>201</u>	<u>.250</u>	<u>STEEL</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>175</u>	<u>181</u>	<u>.030</u>		<u>6"</u>	<u>S.S.</u>	☒	☐
<u>201</u>	<u>201</u>	<u>.030</u>		<u>6"</u>	<u>S.S.</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 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)

Water

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>30</u>	<u>46</u>	<u>SAND</u>	☒	
	<u>46</u>	<u>52</u>	<u>BLUE CLAY</u>		☒
	<u>52</u>	<u>56</u>	<u>FINE SAND</u>	☒	
	<u>56</u>	<u>57</u>	<u>HARD SANDSTONE</u>		☒
	<u>57</u>	<u>139</u>	<u>BLUE CLAY w/SM SAND STREAKS</u>		☒
	<u>139</u>	<u>145</u>	<u>FINE SAND</u>	☒	
	<u>145</u>	<u>147</u>	<u>BLUE CLAY</u>		☒
	<u>147</u>	<u>148</u>	<u>FINE SAND</u>	☒	
	<u>148</u>	<u>172</u>	<u>BLUE CLAY</u>		☒
	<u>172</u>	<u>177</u>	<u>GREEN CLAY</u>		☒
	<u>177</u>	<u>181</u>	<u>FINE SAND</u>	☒	
	<u>181</u>	<u>200</u>	<u>GREY CLAY</u>		☒
<u>19</u>	<u>200</u>	<u>202</u>	<u>GREY CLAY w/SANDSTONE STREAK</u>	☒	
	<u>202</u>	<u>249</u>	<u>GREY CLAY</u>		☒
	<u>249</u>	<u>253</u>	<u>FINE- COARSE SAND</u>	☒	
	<u>253</u>	<u>282</u>	<u>GREY CLAY</u>		☒
	<u>282</u>	<u>286</u>	<u>FINE SAND</u>	☒	
	<u>286</u>	<u>325</u>	<u>GREY CLAY</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 ROVERSTEAD 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
6/02IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT1. WELL TAG NO. D 0031063
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name Mann Farms
Address 31801 Mann Lane
City Prima 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 _____ 10 acres County Carson 40 acres 160 acresLat: _____ Long: _____
Address of Well Site 31801 Mann Lane
Mann Feed lot City Prima

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 Pour</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>1.5</u>	<u>127</u>	<u>.365</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. Wire way

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 pour</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

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

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>310 gpm</u>	<u>76</u>	<u>45'</u>	<u>5 HRS</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>15</u>	<u>0</u>	<u>2</u>	<u>top Soil</u>		
	<u>2</u>	<u>10</u>	<u>gravel w/ some clay</u>		
	<u>10</u>	<u>39</u>	<u>Sand, gravel</u>		
	<u>39</u>	<u>49</u>	<u>Blue Clay</u>		
	<u>49</u>	<u>52</u>	<u>fine Blue Sand</u>		
	<u>52</u>	<u>91</u>	<u>Blue Clay w/ layers of hard sandstone</u>		
	<u>91</u>	<u>128</u>	<u>Blue Clay w/ fine sand</u>		
	<u>128</u>	<u>130</u>	<u>fine to coarse sand, gravel</u>		
	<u>130</u>	<u>132</u>	<u>Blue Clay</u>		
	<u>132</u>	<u>177</u>	<u>fine sand w/ gravel layers, and Blue clay</u>		

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 Riverside & Inc Firm No. 333Principal Driller _____ Date _____
and Driller or Operator _____ 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

63

Form 238-7
6/02IDAHO 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 CANLONLat: 43:49:550 Long: 114:0:219Address of Well Site NEAR 31801 MANN LNCity PARMA

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

Lt. _____ 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 CHIA	0	80	10,000	DRY POUR
1" BENTONITE CHIA	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	+2	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
#8-12CSSTSWA	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	Drawdown	Pumping Level	Time
250	64	91	7 hrs

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

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

RECEIVED

JAN 28 2008

WATER RESOURCES
WESTERN REGIONCompleted 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. 333Principal Driller [Signature] Date 1-23-08and 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. 63-81664

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 or NE 1/4
Gov't Lot 10 County CANYON

Lat: 43:49:835 Long: 117:0:202
Address of Well Site NEAR 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
☐ 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
BENTONITE	0	18	800	Dry Pour

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
10	+2	37	.250	STEEL	☒	☐	☒	☐
8	32	37	.250	STEEL	☒	☐	☒	☐

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
37	47	.018		7"	S.S.	☒	☐
47	57	.010		7"	S.S.	☐	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
N/A				

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

Office Use Only
Well ID No. 417614
Inspected by
Twp Rge Sec
1/4 1/4 1/4
Lat: Long:

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

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

Water Temp. 64° 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	Water	Y	N
16	0	3	TOP SOIL			X
"	3	18	GRAVEL			X
10	18	27	GRAVEL w/ BLUE SAND		X	
	27	36	BLUE CLAY STREAK of GRAVEL		X	
	36	42	GRAVEL w/ BLUE SAND		X	
	42	60	BLUE CLAY w/ SAND LAYER		X	

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 Date 7-25-07

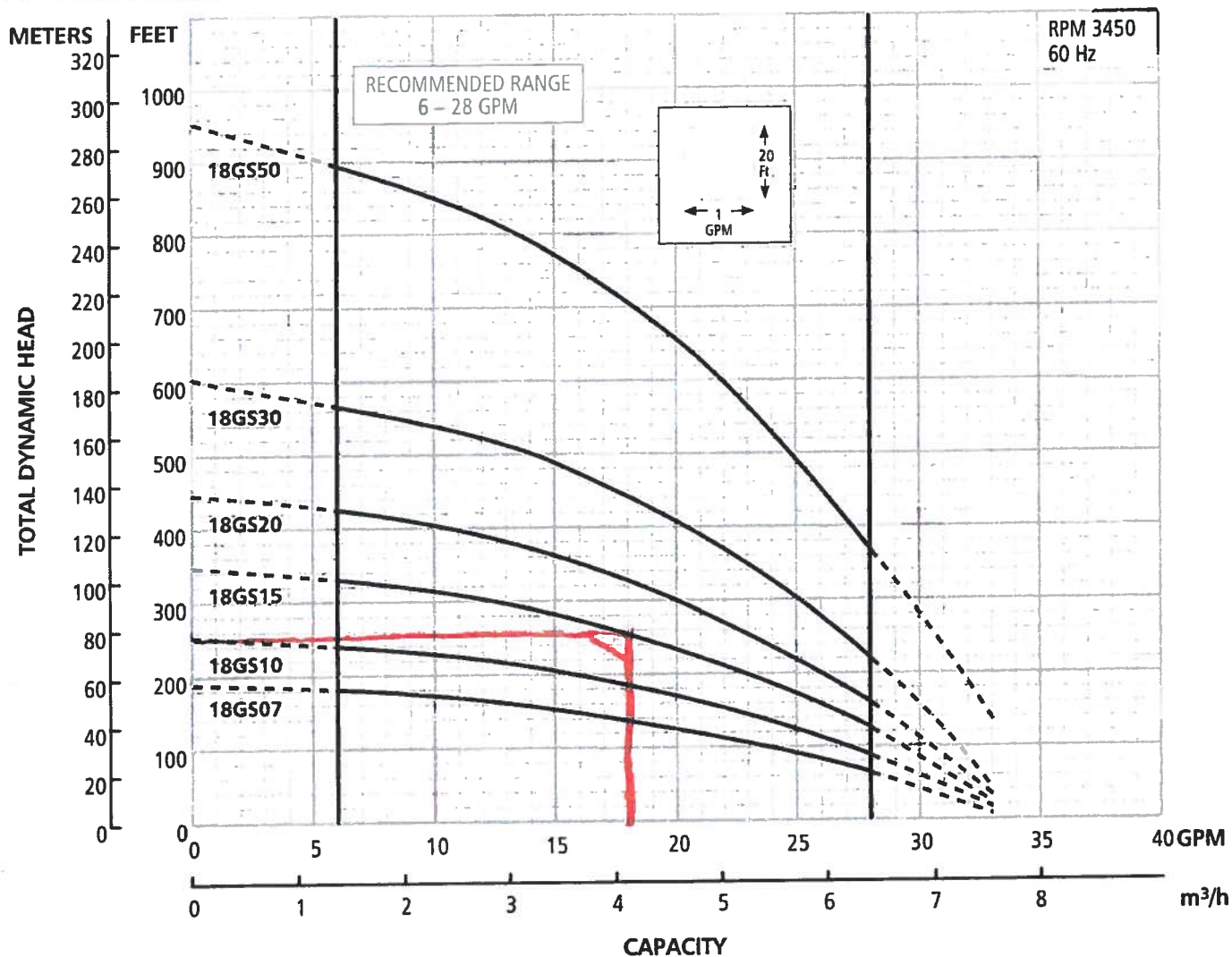
and Driller or Operator II Date 7-25-07

Operator I Date

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

Model 18GS

GOULDS PUMPS

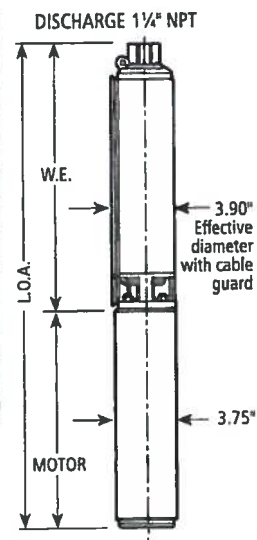


DIMENSIONS AND WEIGHTS

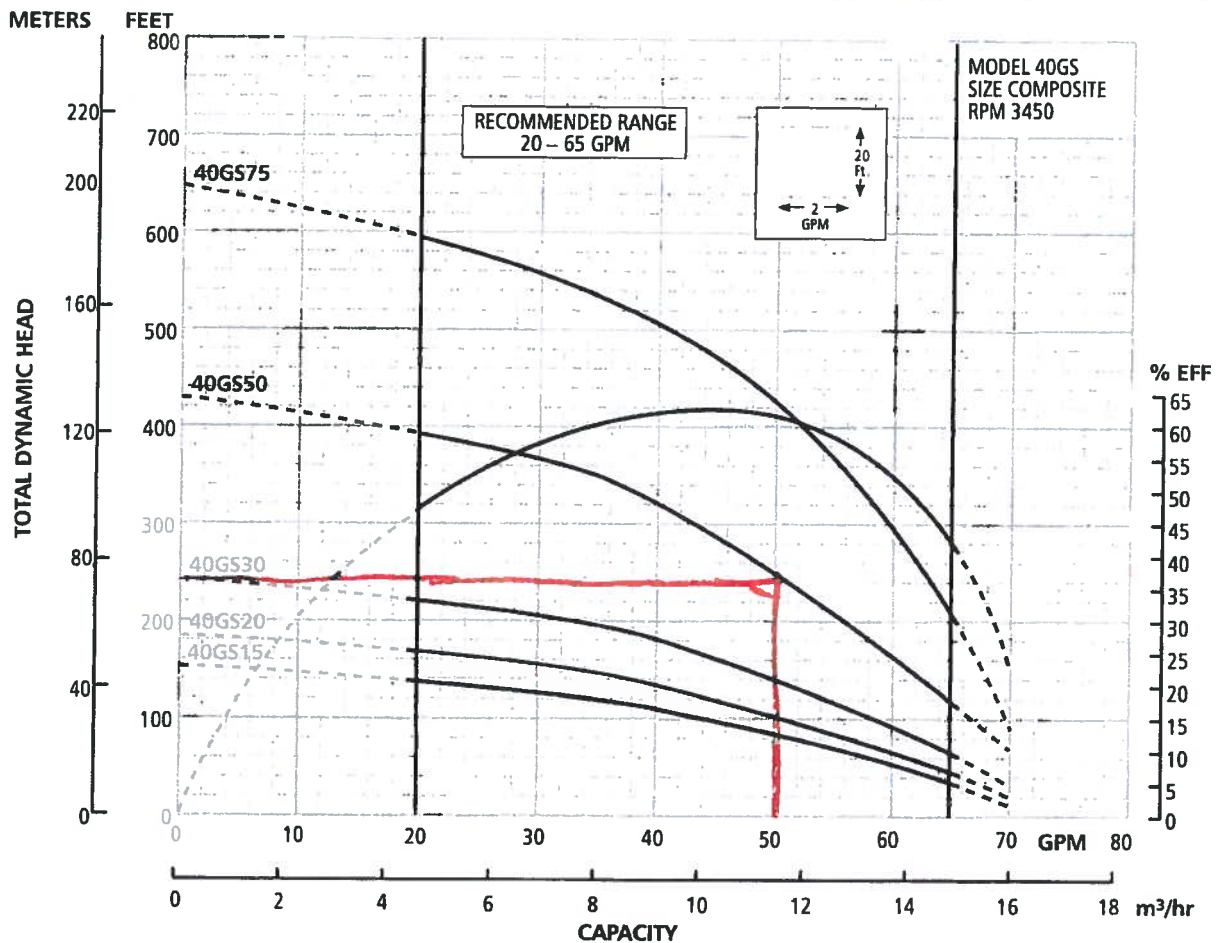
Model	HP	Phase	Stages	Length (inches)			Weight (lbs.)		
				W.E.②	Motor	L.O.A.③	W.E.	Motor	Total
18GS07412,22	¾	1	6	11.3	10.7	22.0	6	21	27
18GS10412,22	1	1	8	13.0	11.8	24.8	7	24	31
18GS15412	1½	1	11	15.5	13.6	29.1	9	28	37
18GS15422	1½	1	11	15.5	15.1	30.6	9	31	40
18GS15432,34	1½	3	11	15.5	11.8	27.3	9	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.

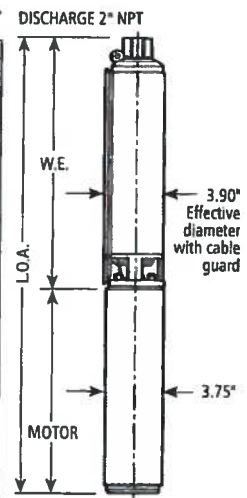


Model 40GS



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	3	200	11.8	13.0	24.8	31
			S07970		230				
			S07975		460				
			S07979		575				
2	6	40GS20	S08940	1	230	15.1	14.2	29.3	37
			S08978	3	200	13.6	14.2	27.8	35
			S08970		230				
			S08975		460				
			S08979		575				
3	8	40GS30	S09940	1	230	19.1	16.6	35.7	51
			S09978	3	200	16.1	16.6	32.7	45
			S09970		230				
			S09975		460				
			S09979		575				
5	14	40GS50	S10940	1	230	28.2	24.0	52.2	78
			S10978	3	200	22.2	24.0	46.2	61
			S10970		230				
			S10975		460				
			S10979		575				
7½	21	40GS/5	S119784	3	200	28.2	34.0	62.2	80
			S119704		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.