

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

JAN 11 2010

WATER RESOURCES
WESTERN REGION

A. GENERAL INFORMATION

Permit No. 63-12329

1. Owner: Diller Miller Land Company LLC c/o Stephen J Miller Phone No.: (602) 230-7518

Current Address: 451 E Glendale Ave Phoenix, AZ 85020

2. Accompanied by: Stephen Miller, Diller Miller Land Company EXAM DATE: July 30, 2009

Address: same as above Phone No. same as above

Relationship to Permit Holder: same

3. Source: Ground Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Surface water from Wilder Irrigation District fully overlaps the place of use; water right 63-2397 partially overlaps the place of use. See narrative part E for further discussion.

2. Other water rights with the same point of diversion: 63-11698

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
1			SE	SW	10	04N	05W	CANYON	VISUAL INSPECTION, GPS, NAIP AERIAL PHOTO AND USGS QUADRANGLE MAP

2. Place(s) of Use:

Indicate Method of Determination GPS, 2004 & 2006 NAIP IMAGE

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N	05W	11													37	3.3		27	67.3
		12									38	37							75.0

Total: 142.3

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe id as applicable.

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
1 – Point of Diversion	General Electric	150	DJJ418106	Aurora Vertiline	16" Mainline
Relift Pump	Unknown	20	U12056	Parma Water Lifter	

*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
N/A						

2. **Measurements:** _____ The pump was not operating at the time of the exam. Flow rate based on theoretical capacity estimates.

E. NARRATIVE/REMARKS/COMMENTS

See also the narrative prepared for 63-11698, which describes the same point of diversion and discharge system. The well pump discharge manifold supplies three different mainlines, including one that discharges into the Paine Lateral, which runs east along Red Top Road to the place of use described by this permit. Ground water discharged into the Paine Lateral is conveyed to the fields located in the E ½ SE ¼ Section 11. Also, a Parma Water Lifter re-lift pump conveys water from the Paine Lateral into the Drew Lateral where it supplies fields in the N½ SW¼ Section 12.

Overlapping Rights: Water right 63-2397, a surface water right diverted from Mammen Gulch and owned by this permit holder, overlaps the 63-12329 place of use located in Section 11, but does not overlap the place of use in Section 12. Wilder Irrigation District water overlaps and is used on the entire place of use. Permit 63-11698 is diverted from the same point of diversion (well) as this permit (63-12329) and per the Beneficial Use Field Report for 63-11698 (dated 11/3/1999), the place of use for 63-11698 does not overlap this permit.

This permit describes Section 12 SWSW as a place of use, but this tract is owned by another party (Clayton Tree Farm LLC) and covered by another ground water right (63-10578) and is not served or overlapped by this permit.

Analysis: This examination finds irrigation of 142.3 acres under this permit. Pumping capacity is estimated at 4.24 cfs (see attached Estimated Pumping Rate Flow Analysis). The examination for 63-11698 found irrigation of 133 acres which do not overlap acres under this permit, resulting in a total of 275.3 acres for both permits.

The exam of 63-11698 also describes an estimated diversion capacity of 2.93 cfs, which is significantly lower than the 4.24 cfs estimated by this examiner. The reasons for this discrepancy in estimated pumping capacity are based on estimates of Total Dynamic Head (TDH) and pumping efficiency.

Based on analysis of pumping water levels and discharge rates from test pumping documented in the Well Driller's Report, this examiner estimates that pumping lift is approximately 235 feet at a discharge of 1900 gpm (see analysis, table, and curve provided in the Estimated Pumping Rate Flow Analysis). This examiner also estimates an effective discharge pressure of 2 psi at the discharge head which is consistent with his experience of measured discharge pressures on other open-discharge systems operating with a wafer style check valve and fully-open control valve(s). Friction losses in 350 feet of column pipe and a discharge head are estimated to be equivalent to 7 psi, yielding a total estimated TDH of 256 feet.

Pumping efficiency is estimated at 82%. Riverside Inc.'s records include a job estimate for
BENEFICIAL USE FIELD REPORT, 63-12329

a 150-hp, 3-stage pump with 14-inch bowls with a designed operating point of 2000-gpm at 252-ft TDH, and pump set at 350-feet for this well (personal communication with Steve Smith at Riverside Inc., July 30, 2009). The estimate did not indicate the specific make and model for the described pump, but review of pump curves shows that an Aurora/Layne pump model 14TLC with three stages would operate at the same specified design point and with a pumping efficiency slightly above 82% (copy of curve included). In addition, a pumping efficiency of 82% is consistent with other large turbine-style pumps typically used for ground water irrigation wells in Idaho.

The system is capable of supplying a full 0.02 cfs per acre to the place of use.

Recommendations: Permit 63-12329 is recommended for a diversion rate of 2.85 cfs and annual volume of 640.4 afa to irrigate 142.3 acres. When combined with all other rights, this permit should be limited to 0.02 cfs per acre and 4.5 acre-feet per acre annual volume. Permits 63-12329 and 63-11698 together shall be limited to a maximum diversion rate of 4.24 cfs.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS X Additional Computation Sheets Attached

Measured Method:

Well 1 Estimated Pumping Capacity = 4.24 cfs**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 142.3 \text{ acres} \times 4.5 \text{ acre-feet/acre/year} = 540.4 \text{ afa}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 2.85 \text{ cfs} \times 260 \text{ days} \times 1.9835 = 1,469.8 \text{ afa}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 540.4$ *640.4 AFA M Van Bursum
3/4/2010*

2. Volume Calculations for Other Uses: none

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	3/15	11/15	2.85 cfs	641.3 afa

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above None X Change P.U. as reflected above Add P.U. as reflected above Other**I. AUTHENTICATION**Field Examiner's Name Scott N. King, P.E. Date 10/20/2009Field Examiner's Signature *Scott N. King*

Reviewer _____ Date _____



ATTACHMENT A
MAPS & PHOTOGRAPHS

63-12329
Beneficial Use Field Exam Attachments

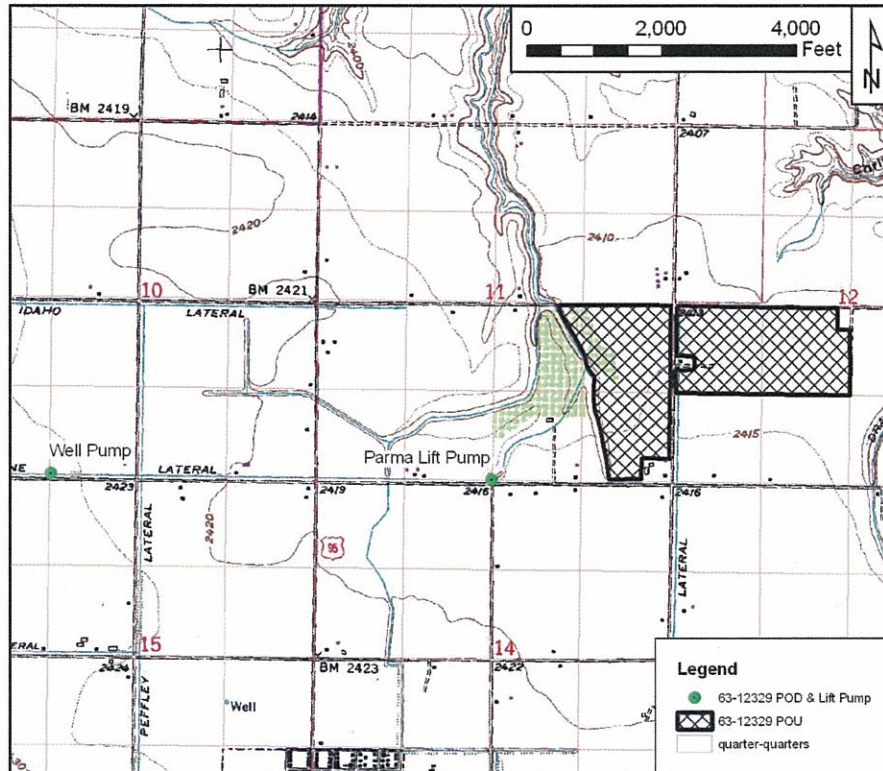


Figure 1: USGS Quadrangle showing location of point of diversion (Well Pump), Parma Lift Pump, and place of use (T04N R05W).

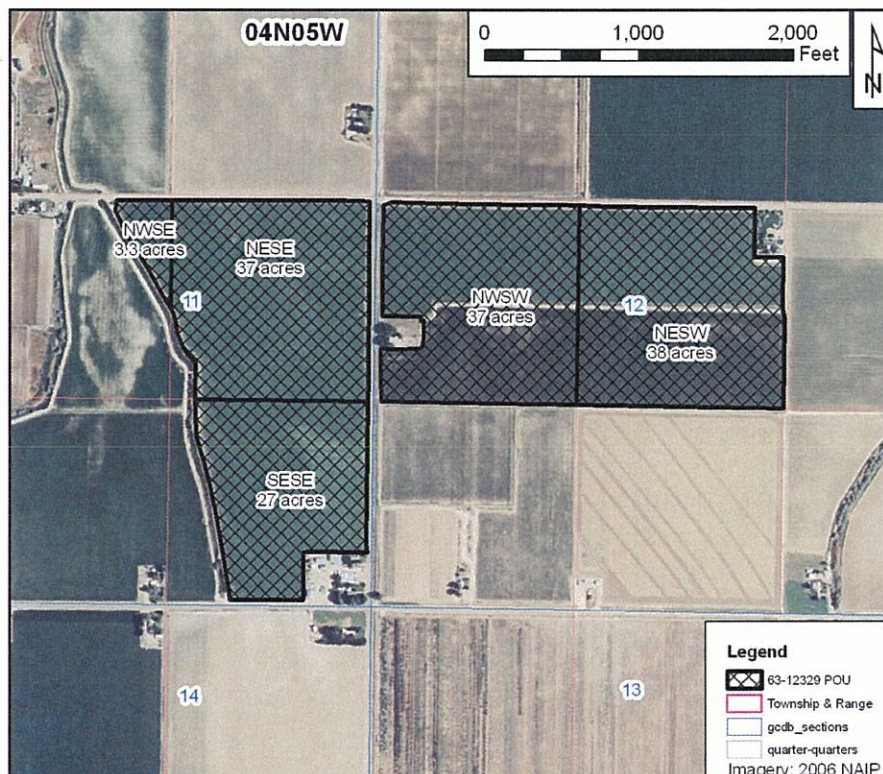
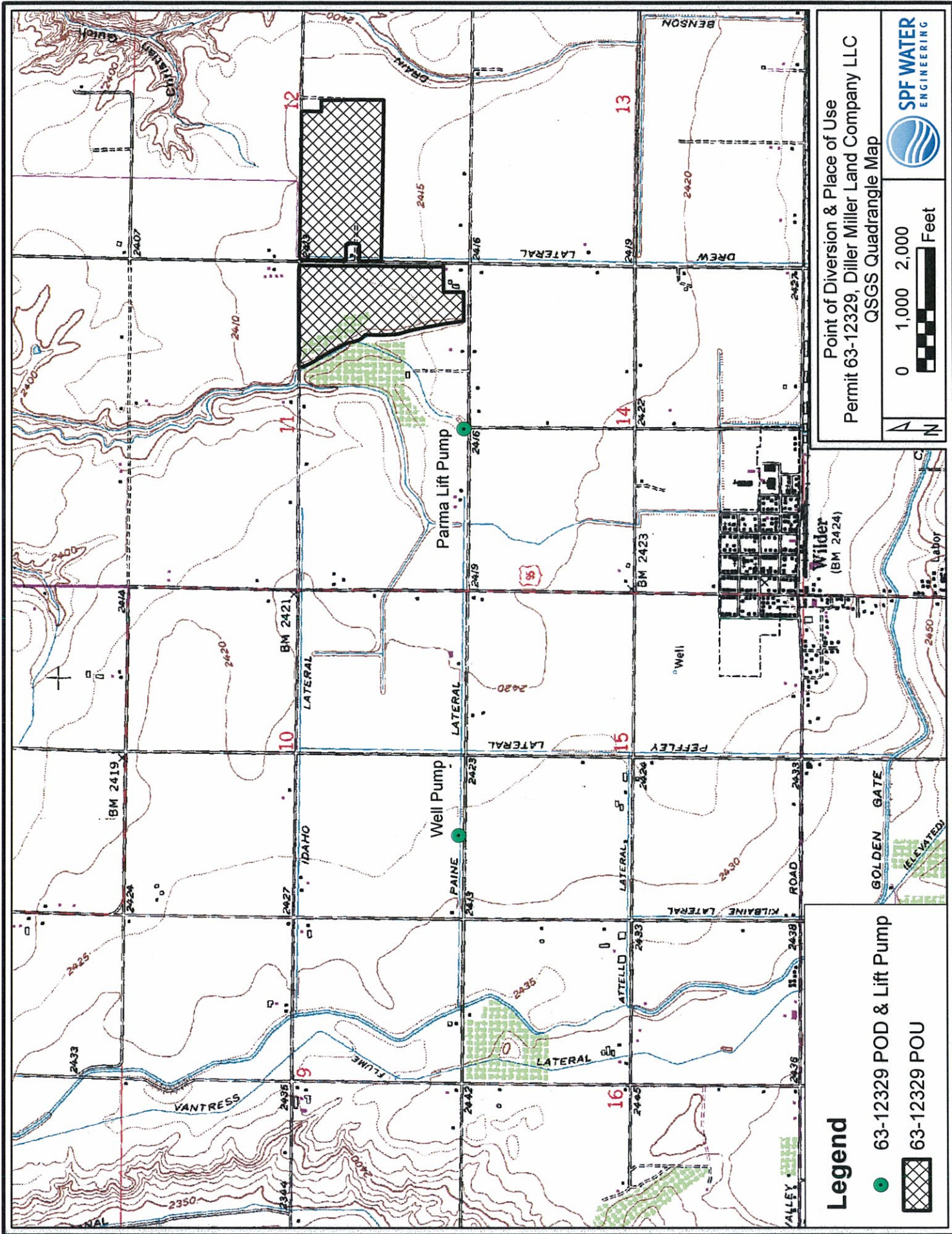


Figure 2: Aerial photo (2006 NAIP) showing place of use and acres per quarter-quarter.



63-12329
Beneficial Use Field Exam Attachments



Figure 3: Well, facing northeast. Paine Lateral in foreground.



Figure 4: Well, facing northwest. Pipeline in foreground discharges to Paine Lateral, conveying water for use under this permit.

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Beneficial Use Field Exam Attachments



Figure 5: Parma Water Lifter re-lift pump. Photo taken facing northeast.



Figure 6: Upper end of drain in SWSESE Section 11. The beet field on the right is irrigated under this permit.

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Beneficial Use Field Exam Attachments



Figure 7: Photo facing east along concrete ditch that conveys water under this permit for irrigation of the field on left (SESE Section 11).



Figure 8: Photo at southwest corner of yellow shop, facing north, in SESE Section 11.

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Beneficial Use Field Exam Attachments



Figure 9: Photo taken at the northeast corner of NESE Section 11 facing south (intersection of Travis Rd and Fern Ln). Concrete ditch conveys water to field on right (NESE).



Figure 10: Photo taken at same location as Figure 9, facing west down Fern Ln, along northern boundary of NESE Section 11. Field on left irrigated under this permit.

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Figure 11: Photo of Drew Lateral facing north (downstream) taken at southwest corner of SWSW Section 12 (at intersection of Red Top Rd and Travis Rd). Black pipe discharging into box conveys water from the Parma Water Lifter in Figure 5 into the Drew Lateral.



Figure 12: Photo taken at the southwest corner of NWSW Section 12, facing northeast. Turnouts 1017 (right, closed) and 1019 (left, open) from the Drew Lateral serve the S1/2 and the N1/2 (respectively) of the N1/2 of the SW 1/4 Section 12. Turnout 1017 serves the harvested grain field shown in this photo.

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Figure 13: Photo taken near turnout 1019 showing flow diverted by this turnout from the Drew Lateral and serving N1/2 N1/2 SW1/4 Section 12 (corn field beyond trees and home in background on right)



Figure 14: Photo taken at the northwest corner of NWSW Section 12, facing south with Travis Rd right of the Drew Lateral. Fields on both left and right irrigated under this permit.

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Figure 15: Photo taken at the same location as Figure 14 facing east with Fern Ln on left.

ATTACHMENT B
FLOW COMPUTATION SHEET

ed 1/6/2000

Estimated Pumping Rate Calculator

Flow Analysis Performed by: Scott King, SPF Water Engr

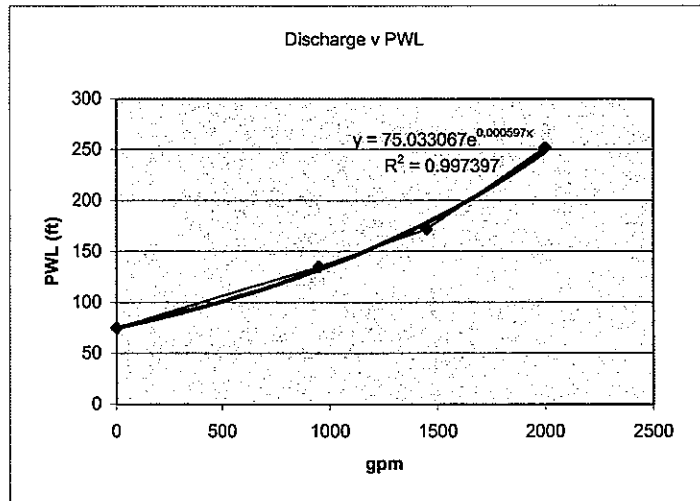
Date: 9/17/2009

Page 1 of 1

Record ID		Designed Flow:		4.46 cfs
Water Right No. 63-12329		HP/Eff Flow:		4.24 cfs
Name Diller Miller Land Company LLC				
pod 04N 05W 10 SESW				
year: 2009				
Curve/Pump Design: 2000 gpm = 4.46 cfs				
Horsepower / Efficiency Method				
Horsepower	150 hp			
PWL	235 ft			
Disch Psi	9 psi	estimated. 2 psi discharge pressure + 7 psi friction losses		
PUMP Eff Estimate	0.82 %			
TDH	256 ft			
OHP	123 hp	OHP = horsepower * Pump efficiency		
Flow	1904 gpm	=	4.24 cfs	Flow (gpm) = OHP * 3960 / TDH

Comments / Data Supplied:

From Well Log	Discharge (gpm)	Pumping Water Level (ft)
	0	75
	950	135
	1450	172
	2000	252
	2450	275
with last data point	$y = 77.649e^{0.000548x}$	
	x	1904
	y	220
without last data point	$y = 75.033e^{0.000597x}$	
	x	1904
	y	234
use equation w/o last data point for pwl est.		



Riverside Inc Record of Job Estimate (per Steve Smith, 722-6731):

150 HP, 3 stg, 14" bowls

2000 gpm @ 252' TDH

Set at 350 feet

(These conditions match curve for a Layne 14TLC)

Discharge is estimated based on the following:

- 1) Pumping water level of 235 feet, which is based on curve-fitting and interpolating between water levels reported on the Well Driller's Report and detailed in the above data table and Discharge v PWL curve.
- 2) A discharge pressure of 9 psi, which is based on a combination of estimated column and discharge head friction losses (7 psi) and estimated discharge pressure (2 psi) for an open-discharge system.
- 3) Horsepower of 150-hp, the nameplate horsepower of the installed motor.
- 4) Pump efficiency of 82%, which is consistent with pumps of this size and also consistent with the Layne 14TLC pump curve which matches Riverside Inc's records of capacity and head.

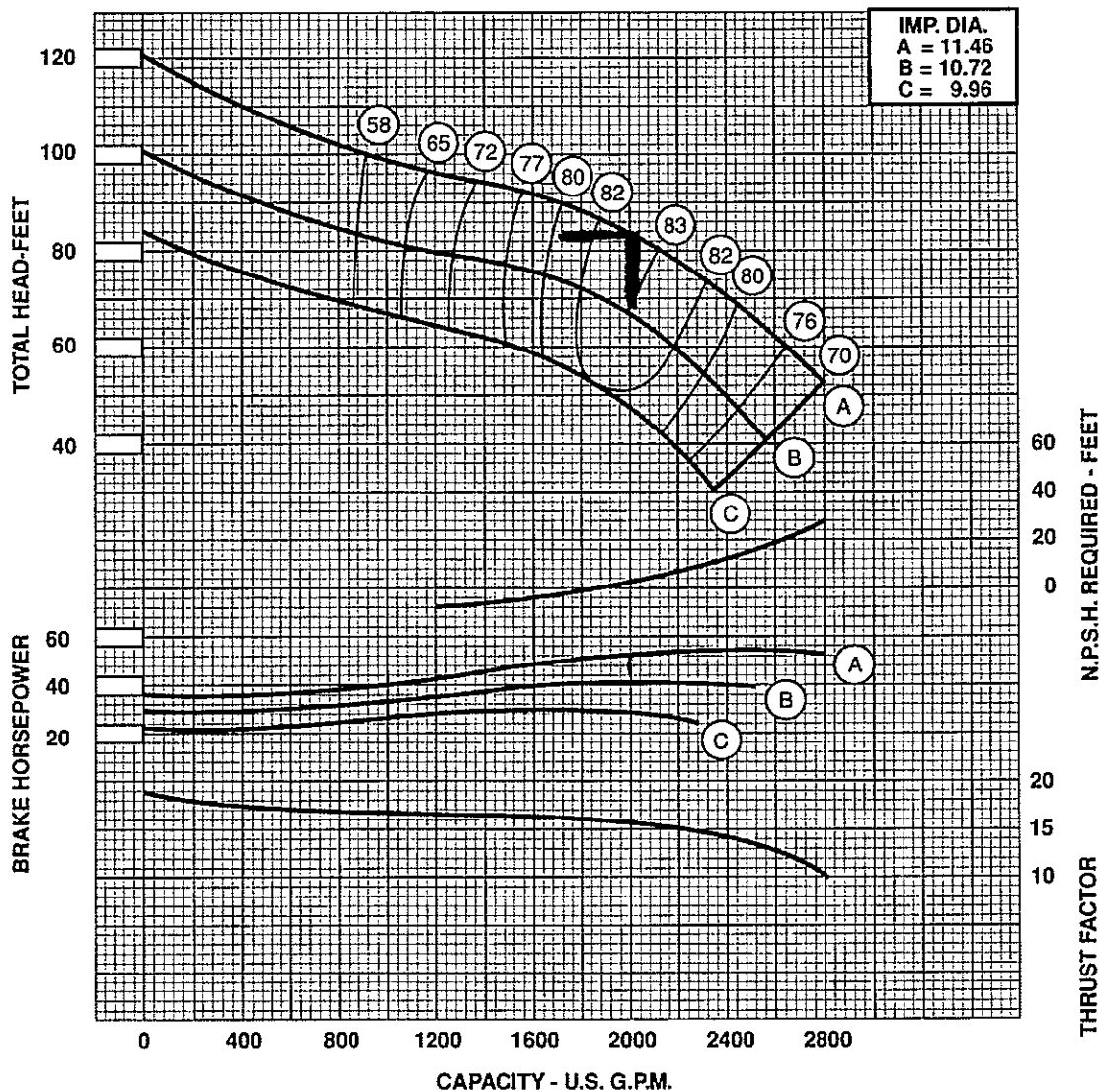
Date **May 1994**Supersedes **All previous catalog materials**Section **2150** Page **225****CURVE data**

No. Stages	Eff. Change	MATERIAL	Eff. Change
1	-2	IMP. - C.I.	-1
2	0	IMP. - NI-RI	-2
3		BOWL - BRZ.	-1
4		BOWL - NI-R.	-1

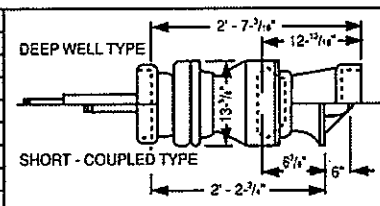
14TLC**1770** R.P.M.

SINGLE STAGE LAB PERFORMANCE WITH STANDARD MATERIALS. EFFICIENCY SHOWN FOR 2 OR MORE STAGES. HORSE POWER SHOWN FOR ONE STAGE BASED ON 2 STAGE EFFICIENCY. CORRECTIONS SHOULD BE MADE FOR STAGES AND MATERIAL.

ONE STAGE () STAGES

PUMP PERFORMANCE

EYE AREA - SQ. IN.	= 34.26	IMPELLER WT. - LBS.	= 32.1
WR ² PER IMPELLER LB.-FT. ²	= 2.72	ONE STAGE WT. - LBS.	= 435
MAX. SPHERE SIZE	= —	ADD'L STAGE WT. - LBS.	= 164
MAX. NO. STD. STAGES	= 7	IMPELLER NUMBER	= —
MAX. OPERATING - P.S.I.	= 390	DISCH. - IN.	= 10.12
STD. LATERAL - IN.	= 0.78	SUCTION - IN.	= 10
STD. SHAFT DIA. - IN.	= 1.937	MAX. LATERAL - IN.	= —
MAX. SHAFT DIA. - IN.	= —	BOWL CONN. FLANGED - COLLETS	= —
MIN. SUBMERGENCE - IN.	= 36	ADD 13" PER ADDITIONAL STAGE.	= —



Curves reflect typical performance, refer to factory for certification.

ATTACHMENT C
WELL DRILLER'S REPORT

DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

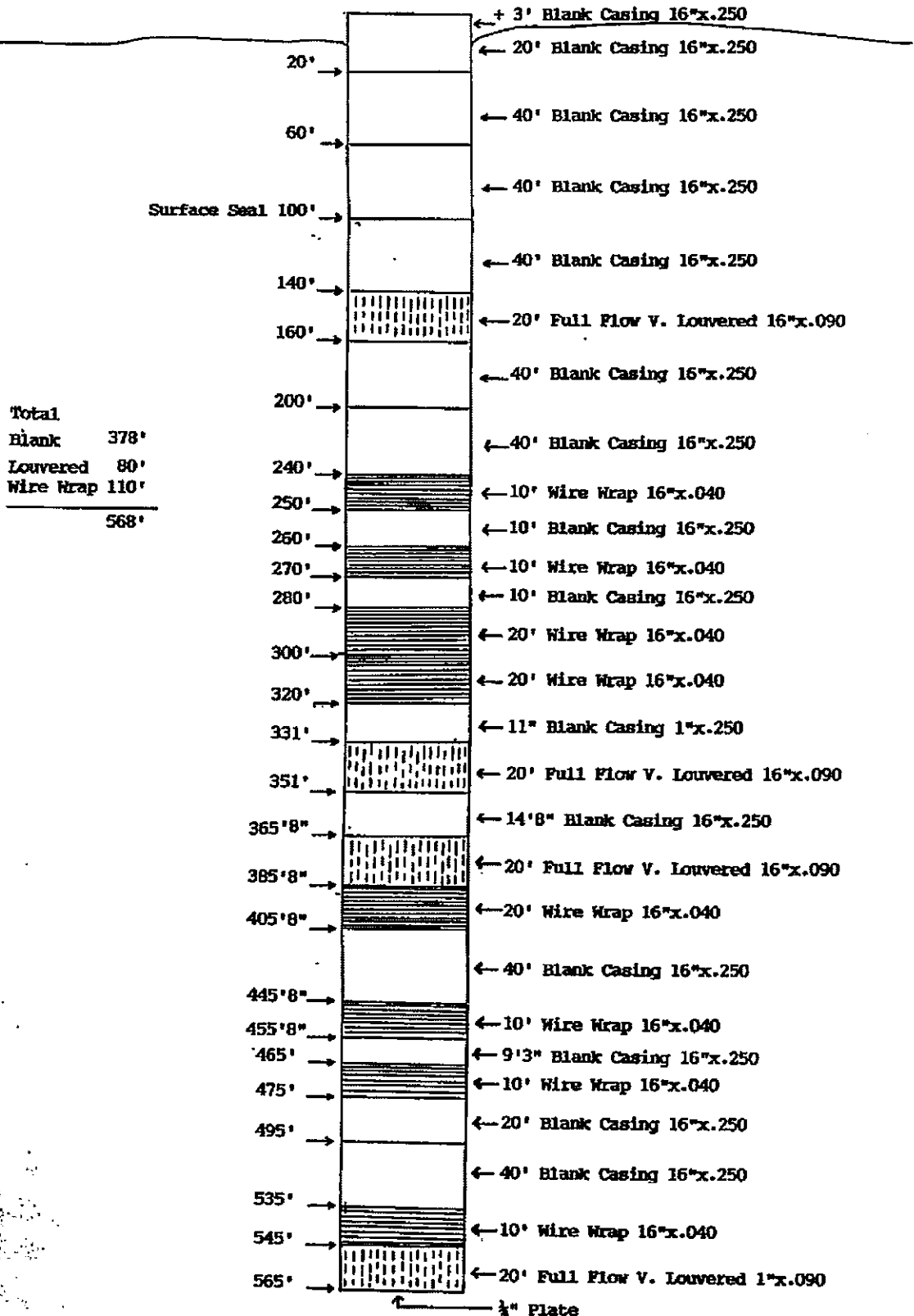
BALLPOINT PEN

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER Name <u>Paulson Farms</u> Address <u>22009 Travis Rd, Wilder, ID 83676</u> Drilling Permit No. <u>63-92-W-287</u> Water Right Permit No. <u>63-11698</u>	7. WATER LEVEL Static water level <u>75'</u> feet below land surface. Flowing? ☐ Yes ☒ No G.P.M. flow _____ Artesian closed-in pressure _____ p.s.i. Controlled by: ☐ Valve ☐ Cap ☐ Plug Temperature _____ °F. Quality _____ Describe artesian or temperature zones below.																																																																																																																																																																																																																																		
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Modification ☐ Abandoned (describe abandonment or modification procedures such as liners, screen, materials, plug depths, etc. in lithologic log, section 9.)	8. WELL TEST DATA ☒ Pump ☐ Baller ☐ Air ☐ Other _____																																																																																																																																																																																																																																		
3. PROPOSED USE ☐ Domestic ☒ Irrigation ☐ Monitor ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> </thead> <tbody> <tr> <td>950</td> <td>135'</td> <td>3.75 hrs</td> </tr> <tr> <td>1450</td> <td>172'</td> <td>Total</td> </tr> <tr> <td>2450</td> <td>275'</td> <td></td> </tr> <tr> <td>2000</td> <td>252'</td> <td></td> </tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	950	135'	3.75 hrs	1450	172'	Total	2450	275'		2000	252'																																																																																																																																																																																																																				
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Auger ☒ Reverse rotary ☐ Cable ☐ Mud ☐ Other _____ (backhoe, hydraulic, etc.)	9. LITHOLOGIC LOG <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Bore Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>28"</td><td>0</td><td>10</td><td>Top soil</td><td></td><td></td></tr> <tr><td>28"</td><td>10</td><td>16</td><td>Cleche w/rock</td><td></td><td>X</td></tr> <tr><td>"</td><td>16</td><td>35</td><td>River rock</td><td></td><td>X</td></tr> <tr><td>"</td><td>35</td><td>50</td><td>Clay w/sand</td><td></td><td>X</td></tr> <tr><td>"</td><td>50</td><td>64</td><td>Fine brown sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>64</td><td>138</td><td>Clay, sm layers fine-coarse sand</td><td></td><td></td></tr> <tr><td>"</td><td>138</td><td>143</td><td>Coarse sand, pea gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>143</td><td>147</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>147</td><td>156</td><td>Coarse-fine sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>156</td><td>186</td><td>Clay, layers sand</td><td></td><td>X</td></tr> <tr><td>"</td><td>186</td><td>188</td><td>Blue clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>188</td><td>198</td><td>Blue sandstone</td><td></td><td>X</td></tr> <tr><td>"</td><td>198</td><td>203</td><td>Pea gravel, coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>203</td><td>213</td><td>Blue clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>213</td><td>214</td><td>Coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>214</td><td>235</td><td>Clay, layers of sand</td><td></td><td>X</td></tr> <tr><td>"</td><td>235</td><td>239</td><td>Coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>239</td><td>243</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>243</td><td>251</td><td>Fine-coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>251</td><td>256</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>256</td><td>263</td><td>Fine-coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>263</td><td>281</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>281</td><td>291</td><td>Pea gravel, fine black sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>291</td><td>293</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>293</td><td>320</td><td>Fine-coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>320</td><td>329</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>329</td><td>351</td><td>Coarse sand, pea gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>351</td><td>361</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>361</td><td>393</td><td>Fine-coarse sand, pea gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>393</td><td>451</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>451</td><td>457</td><td>Coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>457</td><td>471</td><td>Clay, sm layers of sand</td><td></td><td>X</td></tr> <tr><td>"</td><td>471</td><td>479</td><td>Fine-coarse sand, pea gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>479</td><td>534</td><td>Clay, sandstone</td><td></td><td>X</td></tr> <tr><td>"</td><td>534</td><td>568</td><td>Fine-coarse sand</td><td>X</td><td></td></tr> <tr><td>"</td><td>568</td><td>603</td><td>Clay</td><td></td><td>X</td></tr> </tbody> </table>	Bore Diam.	Depth		Material	Water		From	To	Yes	No	28"	0	10	Top soil			28"	10	16	Cleche w/rock		X	"	16	35	River rock		X	"	35	50	Clay w/sand		X	"	50	64	Fine brown sand	X		"	64	138	Clay, sm layers fine-coarse sand			"	138	143	Coarse sand, pea gravel	X		"	143	147	Clay		X	"	147	156	Coarse-fine sand	X		"	156	186	Clay, layers sand		X	"	186	188	Blue clay		X	"	188	198	Blue sandstone		X	"	198	203	Pea gravel, coarse sand	X		"	203	213	Blue clay		X	"	213	214	Coarse sand	X		"	214	235	Clay, layers of sand		X	"	235	239	Coarse sand	X		"	239	243	Clay		X	"	243	251	Fine-coarse sand	X		"	251	256	Clay		X	"	256	263	Fine-coarse sand	X		"	263	281	Clay		X	"	281	291	Pea gravel, fine black sand	X		"	291	293	Clay		X	"	293	320	Fine-coarse sand	X		"	320	329	Clay		X	"	329	351	Coarse sand, pea gravel	X		"	351	361	Clay		X	"	361	393	Fine-coarse sand, pea gravel	X		"	393	451	Clay		X	"	451	457	Coarse sand	X		"	457	471	Clay, sm layers of sand		X	"	471	479	Fine-coarse sand, pea gravel	X		"	479	534	Clay, sandstone		X	"	534	568	Fine-coarse sand	X		"	568	603	Clay		X
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"	156	186	Clay, layers sand		X																																																																																																																																																																																																																														
"	186	188	Blue clay		X																																																																																																																																																																																																																														
"	188	198	Blue sandstone		X																																																																																																																																																																																																																														
"	198	203	Pea gravel, coarse sand	X																																																																																																																																																																																																																															
"	203	213	Blue clay		X																																																																																																																																																																																																																														
"	213	214	Coarse sand	X																																																																																																																																																																																																																															
"	214	235	Clay, layers of sand		X																																																																																																																																																																																																																														
"	235	239	Coarse sand	X																																																																																																																																																																																																																															
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"	251	256	Clay		X																																																																																																																																																																																																																														
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"	263	281	Clay		X																																																																																																																																																																																																																														
"	281	291	Pea gravel, fine black sand	X																																																																																																																																																																																																																															
"	291	293	Clay		X																																																																																																																																																																																																																														
"	293	320	Fine-coarse sand	X																																																																																																																																																																																																																															
"	320	329	Clay		X																																																																																																																																																																																																																														
"	329	351	Coarse sand, pea gravel	X																																																																																																																																																																																																																															
"	351	361	Clay		X																																																																																																																																																																																																																														
"	361	393	Fine-coarse sand, pea gravel	X																																																																																																																																																																																																																															
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"	457	471	Clay, sm layers of sand		X																																																																																																																																																																																																																														
"	471	479	Fine-coarse sand, pea gravel	X																																																																																																																																																																																																																															
"	479	534	Clay, sandstone		X																																																																																																																																																																																																																														
"	534	568	Fine-coarse sand	X																																																																																																																																																																																																																															
"	568	603	Clay		X																																																																																																																																																																																																																														
5. WELL CONSTRUCTION *See Sectional Attached Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>.250 inches</td> <td>16"</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> Was casing drive shoe used? ☐ Yes ☒ No Was a packer or seal used? ☐ Yes ☒ No Perforated? ☐ Yes ☒ No How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun Size of perforation? _____ inches by _____ inches <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> Well screen installed? ☒ Yes ☐ No Manufacturer <u>Roscoe Moss</u> Type <u>Louvered Wire</u> Top Packer or Headpipe <u>Wrap</u> Bottom of Tailpipe _____ Diameter <u>16"</u> Slot size <u>.090</u> Set from _____ feet to _____ feet Diameter <u>16"</u> Slot size <u>.040</u> Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>3/8 minus</u> Placed from <u>100'</u> feet to <u>603'</u> feet Surface seal depth <u>100'</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☒ Pudding clay ☐ _____ Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strings Describe access port <u>1 1/2" Pipe w/ plug</u>	Thickness	Diameter	From	To	.250 inches	16"	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	10. DRILLER'S CERTIFICATION I certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Riverside Drilling</u> Firm No. <u>333</u> Address <u>PO Box 720 Parma, ID 83660</u> Date <u>6-10-92</u> Signed by Drilling Supervisor <u>[Signature]</u> and (Operator) <u>[Signature]</u> (If different than the Drilling Supervisor)																																																																																																																																																																																																						
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6. LOCATION OF WELL Sketch map location must agree with written location. Subdivision Name _____ Lot No. _____ Block No. _____ County <u>Canyon</u> Section <u>10</u> , T. <u>4N</u> S. <u>4R</u> E. <u>W</u>	Work started <u>5-27-92</u> finished <u>6-1-92</u> USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT																																																																																																																																																																																																																																		

Paulson Farms
 Dave Paulson
 22009 Travis Rd
 Wilder, ID 83676

Drilling Permit: # 63-92-W-287
 Water Permit: # 63-11698



ATTACHMENT D
PERMIT 63-12329

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-12329

Priority: March 25, 1996

Maximum Diversion Rate: 3.80 CFS

This is to certify, that DILLER MILLER LAND COMPANY LLC
451 E GLENDALE AVE
PHOENIX AZ 85020

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/01 to 11/15	3.80 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE1/4SW1/4 Sec. 10, Twp 04N, Rge 05W, B.M., CANYON County

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N 05W 11													38.0	2.0		30.0	70.0
04N 05W 12									40.0	40.0	40.0						120.0

Total Acres: 190

CONDITIONS OF APPROVAL

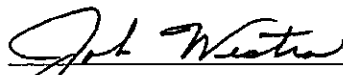
1. Proof of application of water to beneficial use shall be submitted on or before **December 01, 2010**.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to 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.
4. 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 use power records to determine the amount of water diverted and shall annually report the information to the Department.
5. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-12329

6. If the surface water right(s) appurtenant to the place of use is abandoned, forfeited, sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
7. This right does not grant any right-of-way or easement across the land of another.
8. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor exceed a combined annual maximum diversion volume of 855 af at the field headgate for the lands above.
9. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the lands above.
10. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 11th day of December, 2008.


JOHN WESTRA, Western Regional Manager

ATTACHMENT E
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE