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MAR 19 2009

DEPARTMENT OF
WATER RESOURCES

March 18, 2009

Deborah J. Gibson
Idaho Department of Water Resources
P.O. Box 83720
Boise, ID 83720-0098

Subject: Beneficial Use Field Report and Proof of Beneficial Use – Permit 63-31829

Dear Debbie:

Enclosed on behalf of Touchmark Development and Construction Company, LLC are (1) a *Beneficial Use Field Report* for permit 63-31829 and (2) a *Statement of Completion for Submitting Proof of Beneficial Use* for permit 63-31829.

The Beneficial Use Field Report determined that an amendment is needed to change the place of use from the SENW of Section 16 to the NENW, NWNE, and SWNE of Section 16. Please send the amendment form to my attention, and I will obtain a signature from the permit holder for this change.

Sincerely,



Terry M. Scanlan, P.E., P.G.
Certified Water Right Examiner No. 09-129

Cc: Matthew Hoskin – Executive Director, Touchmark at Meadow Lake Village

Enclosures

SPF File: 262.0020

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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A. GENERAL INFORMATION

Permit No. 63-31829

1. Owner: Touchmark Development & Construction Phone No.: 208-888-2277

Current Address: 5150 SW Griffiths Drive, Beaverton, OR 97005

2. Accompanied by: Steve Smelek EXAM DATE: March 13, 2009

Address: 4037 E. Clocktower Lane, Meridian, ID 83642 Phone No. 208-573-5140

Relationship to Permit Holder: Grounds Superintendent for Touchmark at Meadow Lake Village

3. Source: Ground Water tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Nampa & Meridian Irrigation District, Boise-Kuna Irrigation District, Boise Project, and BOR (irrigation), 63-31383 (supplemental irrigation), United Water Idaho and City of Meridian (municipal)

2. Other water rights with the same point of diversion: 63-31383

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
		NW	NE	NW	16	3N	1E	Ada	Field Exam, Topo Map, GIS

2. Place(s) of Use:

Indicate Method of Determination Field Exam, Topo Map, GIS

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	1E	16		J	J		J												

J = Aesthetic, Aesthetic Storage

Q.

See Attached Topo Map &
2006 Aerial Photo

X Photo of Diversion and System Attached

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well	Unknown (submersible)	15	Unknown (submersible)	Grundfos 230S150	6-inch pump, 3-inch discharge

D. FLOW MEASUREMENTS

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Grundfos Pump Curve						

2. **Measurements:** The pump performance curves indicate that the pump is rated to produce approximately 0.70 cfs (315 gpm) with a total dynamic head (TDH) of 100 feet. TDH required is 59 feet. Therefore, the pump will produce in excess of the 0.70 cfs permit rate.

E. NARRATIVE/REMARKS/COMMENTS

Description of Diversion Facilities.

Water is diverted to the pond by pumping from a 485-foot deep well using a 15-hp submersible pump. Water is conveyed through 4-inch column pipe (105 feet), 4-inch well house piping (approximately 20 feet), and 8-inch buried pipeline (1400 feet) to the pond. A copy of the invoice for the well pump and pump house piping is attached. The invoice describes 4-inch and 8-inch piping. The invoice does not include the buried pipeline from the well house to the pond, but the end of the 8-inch PVC pipe is visible at the pond.

The well was drilled in 1979 for Ed Bews for municipal purposes. It currently provides water for aesthetic and aesthetic storage purposes under the subject permit (63-31829) and also for supplemental irrigation under water right license 63-31383. Well test data on the Well Driller's Report indicates a static water level of 26 feet and a pumping water level of 67 feet at 1290 gpm after 24 hours (31 gpm/ft). A copy of the Well Driller's Report is attached.

Estimated pumping water level at 315 gpm (0.70 cfs) is 36 feet (i.e., 26 feet swl + 315 gpm/31 gpm/ft). Head loss at 315 gpm is approximately 10 feet through the 4-inch piping and 3 feet through the 8-inch piping. Elevation difference between the well and the pond is less than 10 feet (topo map). Therefore, TDH required for 315 gpm is 59 feet (36 + 10 + 3 + 10). The pump curve indicates a capacity of greater than 325 gpm (0.72 cfs) at 59 feet TDH.

Water for aesthetic purposes under this permit and supplemental irrigation under license 63-31383 are both conveyed from the well through the same pipeline to the storage pond. The supplemental irrigation water is then pressurized for sprinkler irrigation delivery using a booster pump system at the pond. Storage in the pond for irrigation purposes is 24-hours or less.

Description of Storage Facility

The pond has a surface area of approximately 1.7 acres and an average depth of 6 feet.

Compliance with Condition of Approval No. 4

Permit condition of approval No. 4 states the following.

Prior to diverting water under this right, the right holder shall mitigate for the consumption of water under this right by notifying the Department that the right holder has acquired and permanently abandoned the right to divert 0.04 cfs and 6.4 afa for the irrigation of 2.2 acres under Water Right 63-9972 (SRBA Claim 63-31790). The right holder shall notify the Department by submitting a Notice of Change of Water Right Ownership for the portion of Water Right 63-9972 (SRBA Claim 63-31790) to be abandoned and by submitting a notarized affidavit attesting to the permanent abandonment of that portion of Water Right 63-9972 (SRBA Claim 63-31790).

The permit holder acquired the necessary mitigation water right and recently submitted the change of ownership and notarized affidavit attesting to the permanent abandonment of the water right. A copy of the submittal is attached.

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

F. FLOW CALCULATIONSAdditional Computation Sheets Attached (Pump Curve)

Measured Method: Pump curve and TDH calculation (See Flow Measurements, Item D. and Narrative/Remarks/Comments)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$

2. Volume Calculations for Other Uses:

1.7 acre pond surface area x 6' average depth = 10 acre feet

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Aesthetic	1/1	12/31	0.70	
Diversion to Storage	1/1	12/31	0.70	10.0
Aesthetic Storage	1/1	12/31		10.0
Total Diversion			0.70	10.0

Combined diversion rate under water rights 63-31829 and 63-31383 should be limited to 0.70 cfs.

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 Terry M. Scanlan, Certified Water Right Examiner 09-129 Date 3/18/09

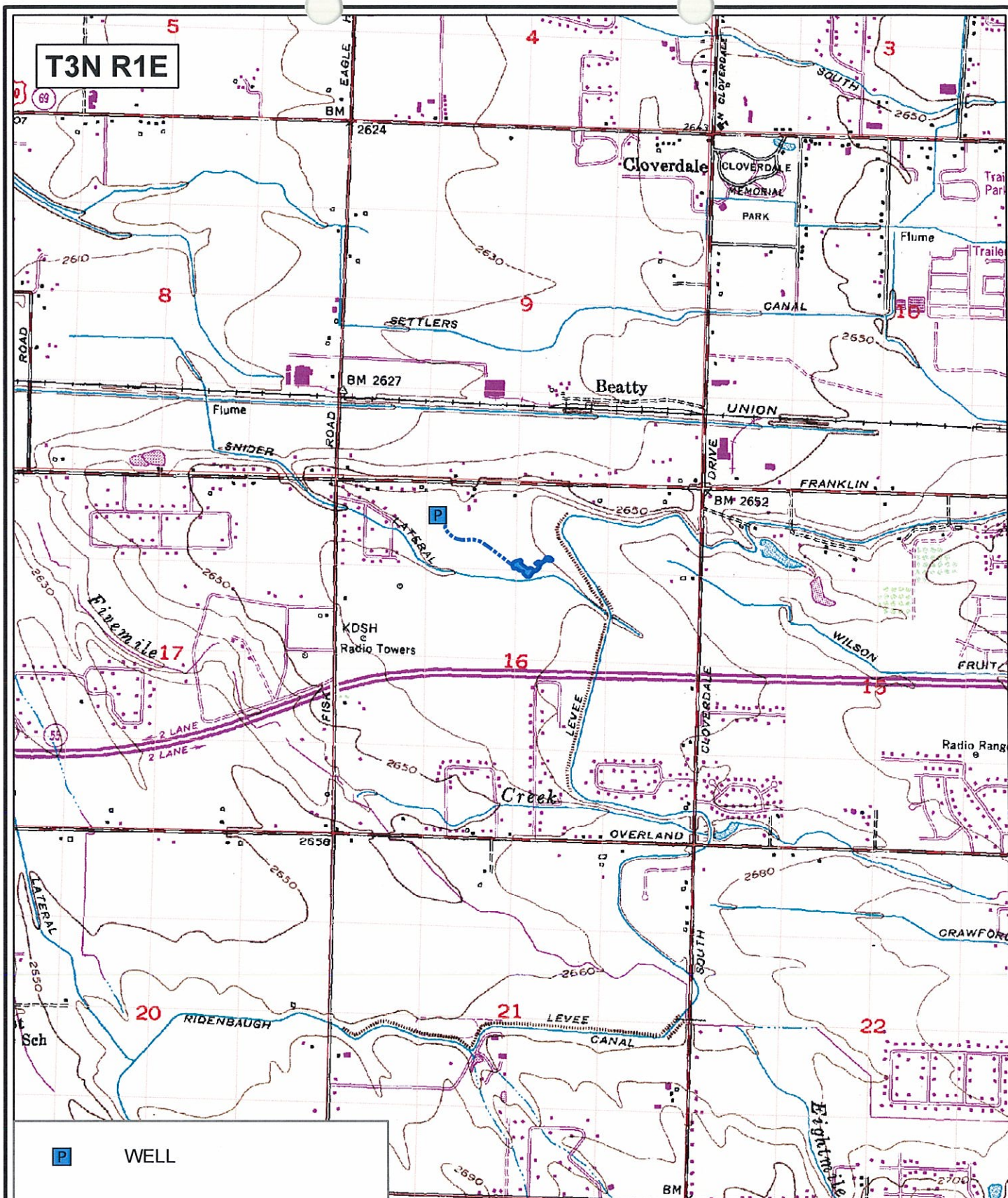
Field Examiner's Signature 

Reviewer _____ Date _____





T3N R1E



WELL



8" BURIED PIPELINE
(ALIGNMENT INFERRED)



POND

**USGS 7.5' TOPOGRAPHIC MAP
CLOVERDALE QUADRANGLE**

0 1,000 2,000

Feet



**SPF WATER
ENGINEERING**

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

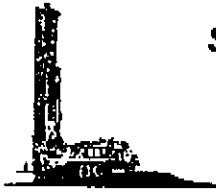
State law requires that this report be filed with the Director, Department of Water Resources
within 30 days after the completion or abandonment of the well.RECEIVED
FUSE TYPEWRITER OR
BALLPOINT PEN

NOV 19 1979

Department of Water Resources
Western Regional Office

1. WELL OWNER Name <u>Ed Bews</u> Address <u>5206 Sorrenton Circle Boise</u> Owner's Permit No. _____	7. WATER LEVEL Static water level <u>26</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 _____																																																																																					
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning) _____	8. WELL TEST DATA ☒ Pump ☐ Baller ☐ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>1290</td><td>67</td><td>24 total</td></tr><tr><td>1430</td><td>76</td><td></td></tr><tr><td>1660</td><td>84 feet.</td><td></td></tr></tbody></table>	Discharge G.P.M.	Pumping Level	Hours Pumped	1290	67	24 total	1430	76		1660	84 feet.																																																																										
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3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)	9. LITHOLOGIC LOG <u>106261</u> <table border="1"><thead><tr><th>Hole Diam.</th><th>Depth From</th><th>To</th><th>Material</th><th>Water Yes No</th></tr></thead><tbody><tr><td></td><td>0</td><td>2</td><td>Topsoil</td><td>X</td></tr><tr><td></td><td>2</td><td>6</td><td>Brown sandy hard pan</td><td>X</td></tr><tr><td></td><td>6</td><td>29</td><td>Cemented sand and gravel</td><td>X</td></tr><tr><td></td><td>29</td><td>76</td><td>Cemented sand, streaks of brown clay</td><td>X</td></tr><tr><td></td><td>76</td><td>148</td><td>Streaks of sandy brown clay and fine to medium sand</td><td>X</td></tr><tr><td></td><td>148</td><td>261</td><td>Streaks of cemented sand and gravel and sandy brown clay</td><td>X</td></tr><tr><td></td><td>261</td><td>270</td><td>Sticky brown clay</td><td>X</td></tr><tr><td></td><td>270</td><td>288</td><td>Streaks of cemented sand and gravel slightly muddy and sand and gravel.</td><td>X</td></tr><tr><td></td><td>288</td><td>341</td><td>Streaks of cemented, rusty brown sand and gravel and reddish colored clay</td><td>X</td></tr><tr><td></td><td>341</td><td>380</td><td>Rusty brown colored clay</td><td>X</td></tr><tr><td></td><td>380</td><td>395</td><td>Sticky brown clay</td><td>X</td></tr><tr><td></td><td>395</td><td>418</td><td>Streaks of rusty brown cemented sand, and sticky brown clay</td><td>X</td></tr><tr><td></td><td>418</td><td>472</td><td>Fine to medium sized brown and white colored sand.</td><td>X</td></tr><tr><td></td><td>472</td><td>473</td><td>Brown clay</td><td>X</td></tr><tr><td></td><td>473</td><td>485</td><td>Blue clay</td><td>X</td></tr><tr><td></td><td>485</td><td></td><td>Packer assembly set from 376 feet to 380 feet</td><td></td></tr></tbody></table>	Hole Diam.	Depth From	To	Material	Water Yes No		0	2	Topsoil	X		2	6	Brown sandy hard pan	X		6	29	Cemented sand and gravel	X		29	76	Cemented sand, streaks of brown clay	X		76	148	Streaks of sandy brown clay and fine to medium sand	X		148	261	Streaks of cemented sand and gravel and sandy brown clay	X		261	270	Sticky brown clay	X		270	288	Streaks of cemented sand and gravel slightly muddy and sand and gravel.	X		288	341	Streaks of cemented, rusty brown sand and gravel and reddish colored clay	X		341	380	Rusty brown colored clay	X		380	395	Sticky brown clay	X		395	418	Streaks of rusty brown cemented sand, and sticky brown clay	X		418	472	Fine to medium sized brown and white colored sand.	X		472	473	Brown clay	X		473	485	Blue clay	X		485		Packer assembly set from 376 feet to 380 feet	
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4. METHOD DRILLED ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary ☒ Cable ☐ Dug ☐ Other _____																																																																																						
5. WELL CONSTRUCTION Casing schedule: ☒ Steel ☐ Concrete ☐ Other _____ <table border="1"><thead><tr><th>Thickness</th><th>Diameter</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>3/4 inches</td><td>16 inches</td><td>2 feet</td><td>418 feet</td></tr><tr><td>3/4 inches</td><td>10 inches</td><td>380 feet</td><td>420 feet</td></tr><tr><td>3/4 inches</td><td>10 inches</td><td>471 feet</td><td>485 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 Size of perforation _____ inches by _____ inches <table border="1"><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's name <u>Johnson</u> Type <u>Stainless</u> Model No. <u>304</u> Diameter <u>10</u> Slot size <u>35</u> Set from <u>420</u> feet to <u>471</u> feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☒ Yes ☐ No ☐ Size of gravel <u>#8 sand</u> Placed from <u>380</u> feet to <u>485</u> feet Surface seal depth <u>29</u> Material used in seal: ☒ Cement grout ☐ Puddling clay ☐ Well cuttings Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☒ Overbore to seal depth Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata Describe access port <u>1 1/2 steel pipe, thread cap</u>	Thickness	Diameter	From	To	3/4 inches	16 inches	2 feet	418 feet	3/4 inches	10 inches	380 feet	420 feet	3/4 inches	10 inches	471 feet	485 feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																										
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6. LOCATION OF WELL Sketch map location must agree with written location. County <u>Ada</u> <u>NE 1/4 NE 1/4 Sec. 16, T. 3, N. R. 1 E. 1/4</u> Subdivision Name <u>E. of Eagle Rd. S. of Franklin</u> <u>Farmington Estates</u> Sub. # <u>1</u> entire sub. Lot No. _____ Block No. _____	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. Firm Name <u>Stevens and Sons</u> Firm No. <u>153</u> Address <u>3709 Hawthorne Dr.</u> Date <u>11/13/79</u> Signed by (Firm Official) <u>[Signature]</u> and <u>[Signature]</u> (Operator)																																																																																					
10. Work started <u>Sept. 6</u> finished <u>Oct. 26, 1979</u>																																																																																						

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT



SKINNER & SON WELL DRILLING, INC.
5101 W. Lake Hazel
Nampa, ID 83687
Phone 887-9927 Fax 887-9928



RECEIVED

9-23-02

Touch Mark Construction
Eagle & Franklin
Meridian, ID 83642

INVOICE	
DATE	NUMBER
9/23/02	1052
DUE DATE:	10/3/02

QUANTITY	ITEM	DESCRIPTION	RATE	TOTAL
1.00	PUMP	15 HP 3 PH 6" Motor	\$1,595.88	\$1,595.88
1.00	PUMP	230S150 GPM 6" Pump	\$1,622.60	\$1,622.60
1.00	PUMP	20 HP Pump Panel	\$1,000.00	\$1,000.00
105.00	DPG-4	Drop Pipe - Galv 4"	\$8.20	\$861.00
105.00	DC83	Drop Cable 8-3 w/ Ground	\$1.75	\$183.75
1.00	TGAL-1.25	Tee - Galv 4"	\$36.26	\$36.26
1.00	UNBP	Union - Galv 4"	\$59.64	\$59.64
1.00	VALVES	4" Gate Valves	\$93.46	\$93.46
5.00	COUPBR-2	4" Couplings	\$23.62	\$118.10
2.00	NIPGAL	4" X 6" Galvanized Nipple	\$13.84	\$27.68
1.00	BUSHGAL	4" X 2" Galvanized Bushing	\$15.32	\$15.32
1.00	ELGAL90	Elbow - Galv 4"	\$42.88	\$42.88
2.00	NIPGAL	4" X5" Galvanized Nipple	\$90.40	\$180.80
2.00	ELPVC45	4" PVC 90	\$9.02	\$18.04
1.00	ADPVC-1	Adaptor - PVC Male 4"	\$6.96	\$6.96
60.00	DPG-1	8" IPS 160 Pipe	\$6.96	\$417.46
1.00	MISC	4" X 8" MJ DI Reducer	\$91.30	\$91.30
1.00	COUPGAL-	4" MJ DZ Coupling	\$53.90	\$53.90
1.00	COUPGAL-	8" MJ DZ Coupling	\$127.60	\$127.60
2.00	MISC	8" MJ Trans Accy Pack	\$25.60	\$51.20
1.00	MISC	4" MJ Trans Accy Pack	\$15.90	\$15.90
20.00	DPG-1	4" PVC Pipe	\$2.78	\$55.60
1.00	MISC	14" X 4" Pump Plat	\$50.00	\$50.00

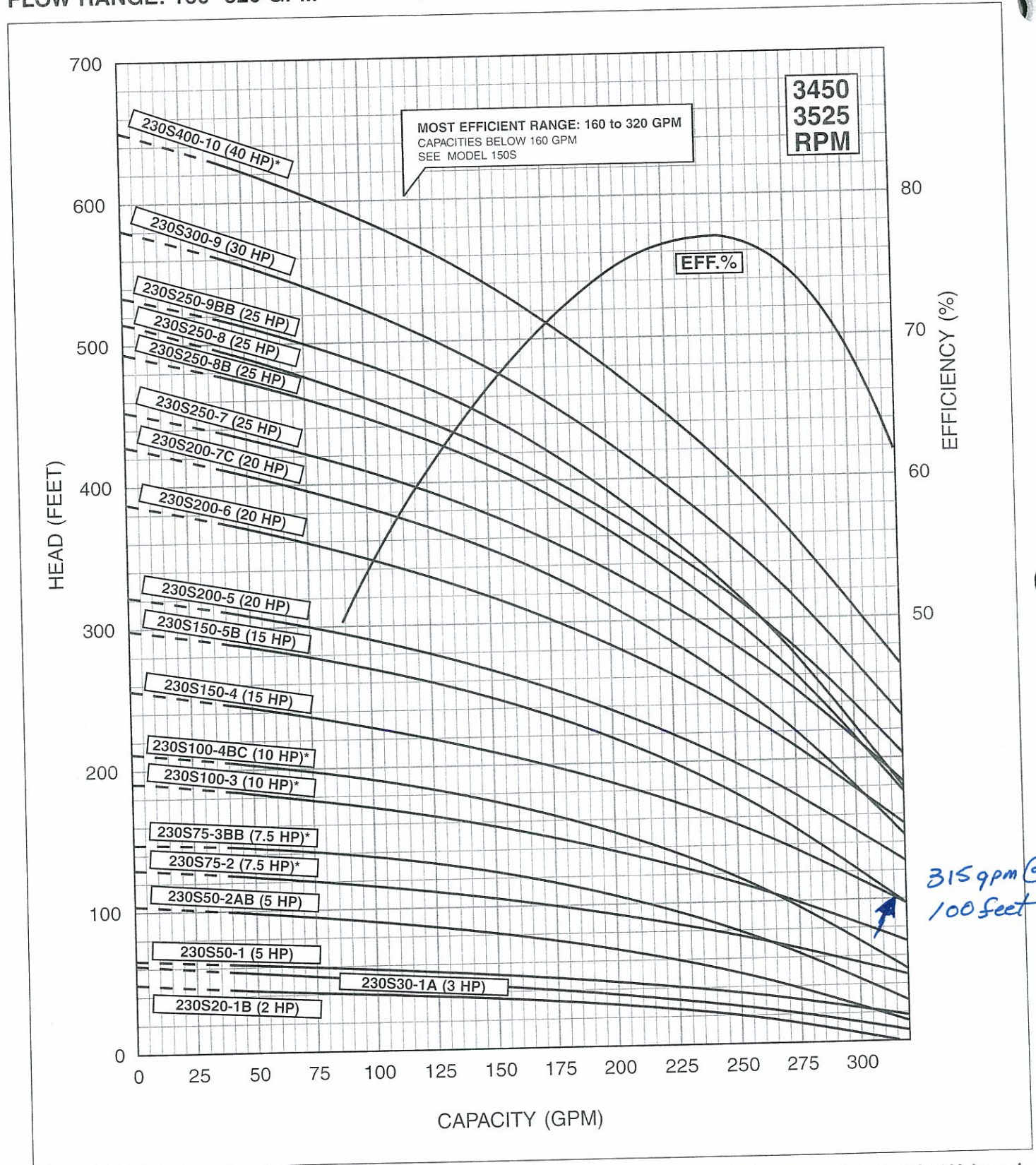
A 20% Service Charge will be added if total is not paid in full by due date specified above.

If you have any questions regarding items in this invoice, please feel free to call Kevin Skinner at 887-9927. He may also be reached on his cell phone at 573-2781. Thank you for choosing Skinner & Son Well Drilling.

FLOW RANGE: 160 -320 GPM

OUTLET SIZE: 3" NPT

NOMINAL DIA. 6"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

4" MOTOR STANDARD, 7.5 HP/3450 RPM
6" MOTOR STANDARD, 10-60 HP/3450 RPM.
8" MOTOR STANDARD, 75 HP/3525 RPM.
* Alternate motor sizes available.

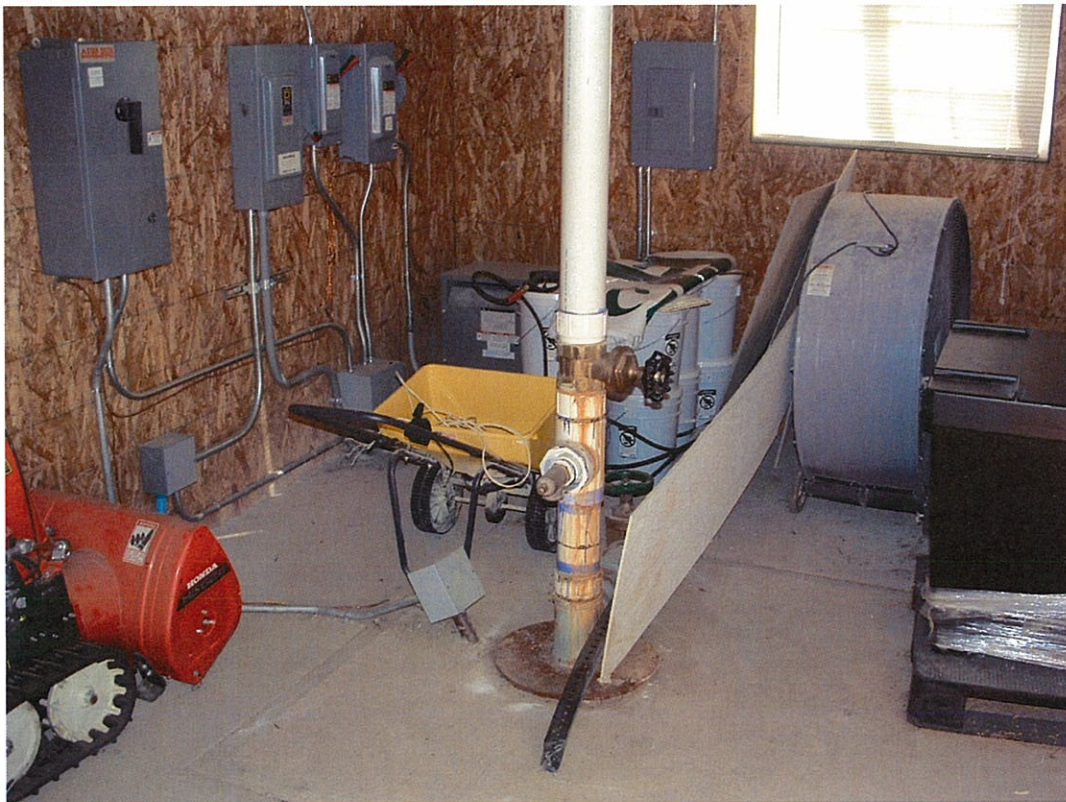
Performance conforms to ISO 9906 Annex A
@ 8 ft. min. submergence.



8-inch pipe inlet to pond from well



View of well head. Horizontal pipe is discharge to pond. Vertical pipe to truck fill.



View of well head and motor controls. Pump is 15-hp submersible.



Well house building.



Western portion of pond



Eastern portion of the pond



Bridge at channel between eastern and western portions of the pond.