

[illegible]

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

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
		20	Submersible	Grundfos	230S200-6; 4-in x 126-ft submersible column pipe

*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	Propeller	McCrometer		02-07916-4	4"	Unknown

2. Measurements:

- Pumping Water Level (PWL): The well log shows 600 gpm with 38' drawdown (15.8 gpm/ft drawdown) after 7 hours pumping.
- Pump performance per pump curve at 279 gpm (0.62 cfs) is 203.8 feet TDH:
 - Drawdown will be 18 feet (279 gpm/15.8').
 - Pumping Water Level (PWL) is 22 feet (4' static + 18' drawdown)
 - Friction (Hf) loss in 4-inch pipe is 5 feet per 100 feet. For 126 feet of pipe, friction loss is 6.3 feet. Allowing for additional loss through check valve, bends, flow meter, total friction loss is assumed to be 10 feet.
 - Discharge pressure at 279 gpm is $(203.8' \text{ TDH} - 22' \text{ PWL} - 10' \text{ Hf} = 172')$; $172 \text{ feet} / 2.31 \text{ feet per psi} = 74 \text{ psi discharge pressure}$

At full speed the pump curve shows pumping capacity is 279 gpm @ 74 psi. Therefore, the pump curve indicates that the system can operate well beyond the permit limitation of 0.23 cfs (103 gpm).

Well drilled and pump installed by Adamson Pump and Drilling. Adamson provided pump curve.

E. NARRATIVE/REMARKS/COMMENTS

An 8-inch well located on Lot 1, Block 1 supplies domestic water to twenty-five (25) residential lots (Lots 2-14, Block 1 & Lots 1-12, Block 2) within Northside Estates Subdivision. The well is equipped with a 20-hp variable speed submersible pump set on 126 feet of 4-inch steel pipe. The system includes two 135-gallon hydropneumatic tanks, a 6-inch distribution system, and 25 one-inch service lines. As required, the well provides domestic water for internal potable uses only. A separate surface water system supplies irrigation water from Pioneer Irrigation District.

The City of Nampa manages the water system for Northside Estates Homeowners Association.

The well screen interval is 260 to 300 feet. Silica sand filter pack extends from 235 to 300 feet. The permit lists a water-bearing zone of 100 to 300 feet. Water-bearing zone developed is 235 to 300 feet.

Have conditions of permit approval been met? X yes ___ no

F. FLOW CALCULATIONS

Measured Method:

Yes Additional Computation Sheets Attached
(Pump Curve and Well log, Attachment B)

20 hp pump curve: 279 gpm (0.62 cfs)

Limit flow rate to permit maximum of 0.23 cfs

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:

Potential volume = 0.23 cfs x 365 days x 1.9835 af/cfs-day = 166.5 afa

Required volume = 25 homes x 0.6 afa = 15 afa

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	0.23	15.0
Total			0.23 cfs	15.0 afa

☐ 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, P.E., Certified Water Right Examiner 10-129 Date June 11, 2009

Field Examiner's Signature

Terry M. Scanlan

Reviewer _____ Date _____

SEAL



ATTACHMENT A

**PERMIT RECORD, PROOF OF BENEFICIAL USE
ASSIGNMENT OF PERMIT**

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

3/25/2009

WATER RIGHT NO 63-31430

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	DAVID A HUNEMILLER 2715 IRONWOOD NAMPA, ID 83687 (208)941-1280
Current Owner	BROWN CONSTRUCTION C/O RICHARD BROWN 6881 BENNETT RD NAMPA, ID 83686 (208)466-2871

Priority Date: 03/11/2008
Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
DOMESTIC	01/01	12/31	0.23 CFS	
Total Diversion			0.23 CFS	

Location of Point(s) of Diversion:

GROUND WATER|NENE Lt 1|Sec. 04|Township 03N|Range 02W|CANYON County

DOMESTIC Use:
Number of homes: 25

Place(s) of use:

Place of Use Legal Description: DOMESTIC CANYON County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
03N	02W	4	1	NENE										

Conditions of Approval:

- | | |
|--------|--|
| 1. 26A | 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 permit holder had no control. |
| 2. 046 | Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code. |
| 3. 121 | 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. |
| 4. 071 | The domestic use authorized under this right shall not exceed 13,000 gallons per day per home. |
| 5. WB5 | Domestic use is for 25 homes and does not include lawn, garden, landscape, or other types of irrigation. |
| 6. X59 | Point of diversion is located within Lot 1, Blk. 1, Northside Estates Subdivision. |
| 7. X60 | Place of use is located within Lots 1-14, Blk. 1 and Lots 1-12, Blk. 2, Northside Estates Subdivision. |
| 8. | Water bearing zone to be appropriated is 100 to 300 feet. |

Dates:
Proof Due Date: 05/01/2004
Proof Made Date: 03/11/2008
Approved Date: 04/25/2002

Moratorium Expiration Date:
Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Application Received Date: 02/14/2002
Protest Deadline Date: 03/18/2002
Number of Protests: 0
Field Exam Date::
Date Sent to State Off:
Date Received at State Off:

Other Information:
State or Federal:
Owner Name Connector: And/Or
Water District Number:
Generic Max Rate per Acre:
Generic Max Volume per Acre:
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Cary Act Number:
Mitigation Plan: False

Close

Form No. 217 MAR 11 2008

RECEIVED

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

FOR OFFICE USE ONLY
Amt. of Fee \$ 100.00
Receipt No. 2080240
Receipt By: CMA
Date Received: 3/11/08

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has completed all work that will occur for the development of a water right and that water has been applied to beneficial use(s) to the extent described below. This form must be accompanied by a license examination fee, when necessary, or accompanied by a completed Beneficial Use Field Report prepared by a certified water right examiner. If you no longer own the property and want to convey this permit to the new owner, please complete an Assignment of Permit form and send it to the Department with a \$25.00 filing fee. Assignment forms are available from any Department office or at www.idwr.idaho.gov.

1. Permit No. 13-31430 Telephone No. 466-2871

2. Name of Permit Holder(s): Richard Brown - Brown Const

Mailing Address: 6881 BENNETT RD City ALAMPA

State ID Zip 83686 Email: Bennett@bcipipe@hotmail.com

4. Source of Water: WE11 If GROUND WATER (well), Date Drilled: mo. 10 yr. 02

Well Driller: ADAMSON Pump Drilling Permit Number: 773562

5. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): 25 Stockwater (No. and type of stock):

Irrigation (No. of acres): Other:

6. Total rate of diversion or storage volume for which proof is submitted: 23 cfs OR acre-feet.

7. Compliance with a Measuring Device requirement and/or other Conditions of Permit: (Refer to the approval conditions on your permit and respond accordingly.)

Measuring Device: Is a measuring device required?
If yes, has the measuring device been installed?

Yes ☒	No ☐
Yes ☒	No ☐

Conditions of Permit: Does your permit require you to submit additional information in connection with your proof of beneficial use? (If yes, please list the conditions below and provide documents if necessary.)

Completed?	Yes ☐	No ☐
Completed?	Yes ☐	No ☐

Fee Enclosed: \$ 100.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.)

8. Person to accompany the Department representative during field examination of the water system.

Name: Richard Brown Telephone Number: 880-2396

Mailing Address: 6881 BENNETT RD City ALAMPA

State ID Zip 83686 Email:

10. 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: Richard Brown Date: 3-7-08
(Include your title, if on behalf of company or organization)

SCANNED
MAR 16 2009

ATTACHMENT B
WELL LOG, PUMP CURVE & SPECS

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Page 1

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

1. WELL TAG NO. D 0019658
DRILLING PERMIT NO. _____
Other IDWR No. _____2. OWNER: Dave Hienemiller
Name _____
Address 2715 Ironwood
City Nampa State ID Zip 83687

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N			
			X
W			
E			
S			

Twp. 3 North ☒ or South ☐
Rge. 2 East ☐ or West ☒
Sec. 4 NW 1/4 NE 1/4 SE 1/4
Gov't Lot _____ County Canyon
Lat: _____ Long: _____
Address of Well Site Corner of Ustick
& Northside Blvd City Nampa
(Give at least name of road + Distance to Road or Landmark)

L1. _____ Blk. _____ Sub. Name Northside
Estates

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other 25 homes

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	0	39	1000#	over bore	pour
Neat cement	39	235	4 yds	around pump	
8 1/2 Silica Sand	235	300	7500#	slow pour	

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	Linear	Welded	Threaded
8"	+2	260	32	Steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method Set
Screens _____ Screen Type Johnson

From	To	Slot Size	Number	Diameter	Material	Casing	Linear
260	300	0.030		8"	SS	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

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

11. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
1000	38 ft	42	7 hours

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 53'

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

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
12	0	10	clay soil & hardpan		
12	10	15	sandy clay		
12	15	53	sand & gravel	X	
12	53	55	clay		
12	55	80	clay		
12	80	83	sand	X	
12	83	85	nan clay		
12	85	90	sand & clay	X	
12	90	95	sand	X	
12	95	100	clay		
12	100	113	sand	X	
	113	118	clay		
	118	124	sand	X	
	124	128	clay		
	128	134	sand	X	
	134	140	clay		
	140	147	sand	X	
	147	149	clay		
	149	160	sand	X	
	160	169	clay & sandy clay	X	
	169	171	clay		
	171	175	sand	X	
	175	178	clay		
	178	184	sand	X	
	184	194	clay		
	194	202	sand & sandy clay	X	
	202	207	sand	X	
	207	212	clay & sandy clay	X	
	212	225	harder clay		
	225	226	sand	X	
	226	227	clay		
	227	230	sand	X	

continued Pg 2

Completed Depth 300' (Measurable)
Date: Started 7.30.02 Completed 10.2.02

13. DRILLER'S CERTIFICATION

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

Company Name Adams Pump & Drill Firm No. 457Firm Official Dave Adams Date 10.8.02and Driller or Operator Andy Lye Date 10.8.02
(Sign once if Firm Official & Operator)

GRUNDFOS®



Company name:

Created by:

Phone:

Fax:

Date:

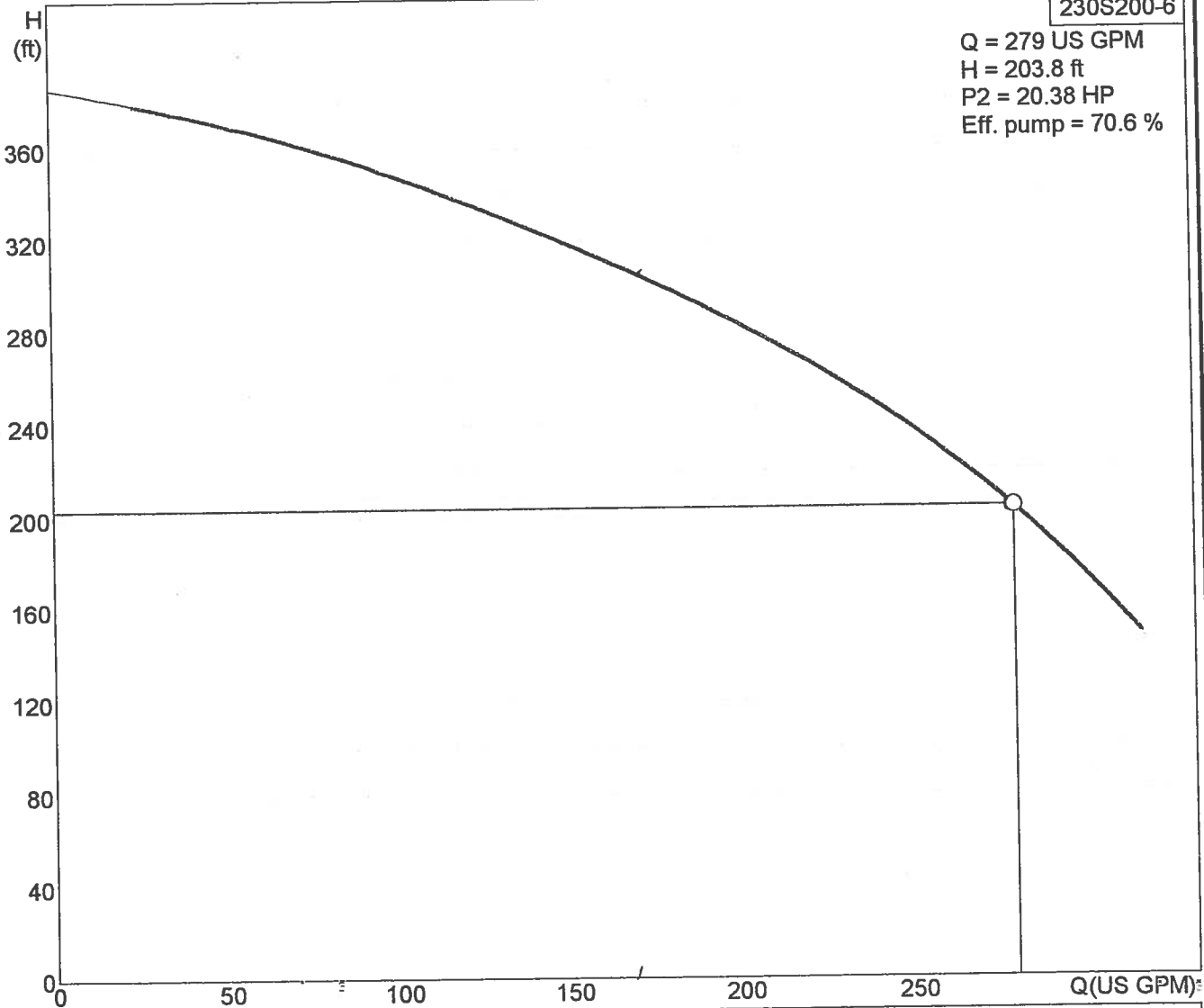
RECEIVED

MAR 11 2008

10/21/2002 Department of Water Resources

15B73606 230S200-6

230S200-6

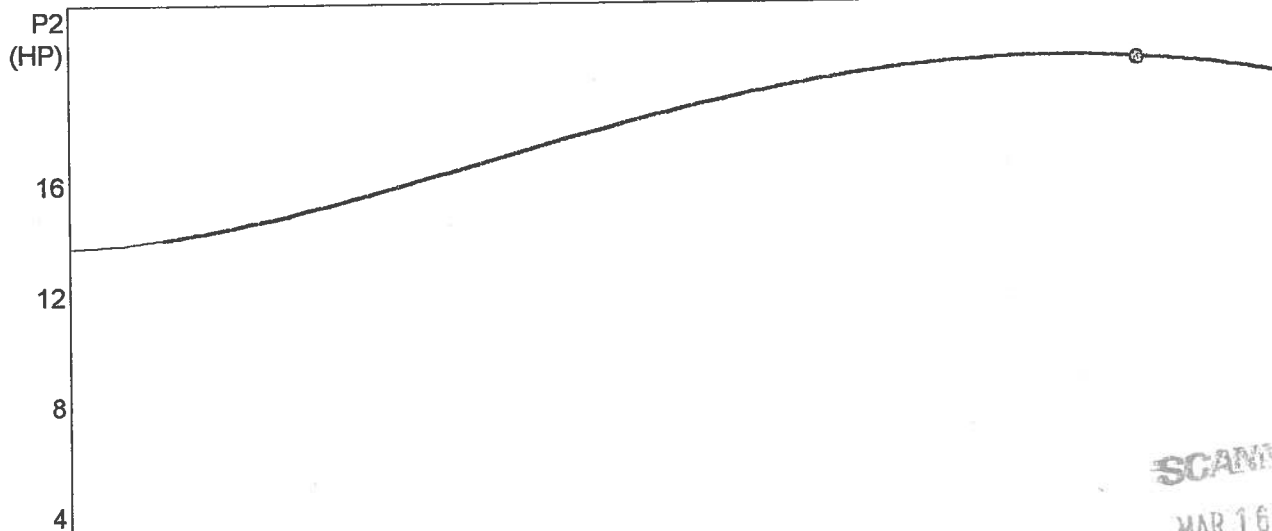


Q = 279 US GPM

H = 203.8 ft

P2 = 20.38 HP

Eff. pump = 70.6 %



SCANNED

MAR 16 2009

GRUNDFOS®

Company name:

Created by:

Phone:

Fax:

Date:

10/21/2002

Position	Count	Description	Single Price
	1	230S200-6 Product No.: 15B73606 Multi-stage submersible pump for raw water supply, groundwater lowering and pressure boosting. The pump is suitable for pumping clean, thin, non-aggressive liquids without solid particles or fibres. The pump is made entirely of Stainless steel DIN W.-Nr. 1.4301 DIN W.-Nr. and suitable for horizontal as well as vertical installation. The pump is fitted with a built-in non-return valve. The motor is a 3 -phase motor of the canned type with sand shield, liquid-lubricated bearings and pressure equalizing diaphragm. Liquid: Pumped liquid: Drinking water Technical: Resulting flow of the pump: 279 US GPM Resulting head of the pump: 203.8 ft Approvals on nameplate: CSA Materials: Material, pump: Stainless steel 1.4301 DIN W.-Nr. 304 AISI Material, impeller: Stainless steel 1.4301 DIN W.-Nr. 304 AISI Material, motor: Stainless steel 1.4301 DIN W.-Nr. 304 AISI Installation: System pressure: 870 psi Minimum pre-charge pressure: -18.8 psi Size, pump outlet: 3" NPT Motor diameter: 6 inch Minimum borehole diameter: 6" in Electrical data: Motor type: MS6000 Rated power (P2): 20 HP Mains frequency: 60 Hz Rated voltage: 3 x 440-460 V Starting method: DOL Rated current: 33.5-33.0 A	\$ 4,647.00

RECEIVED**MAR 11 2008**

Department of Water Resources

SCANNED**MAR 16 2009**

RECEIVED

MAR 11 2008

Department of Water Resources
10/21/2002

GRUNDFOS®



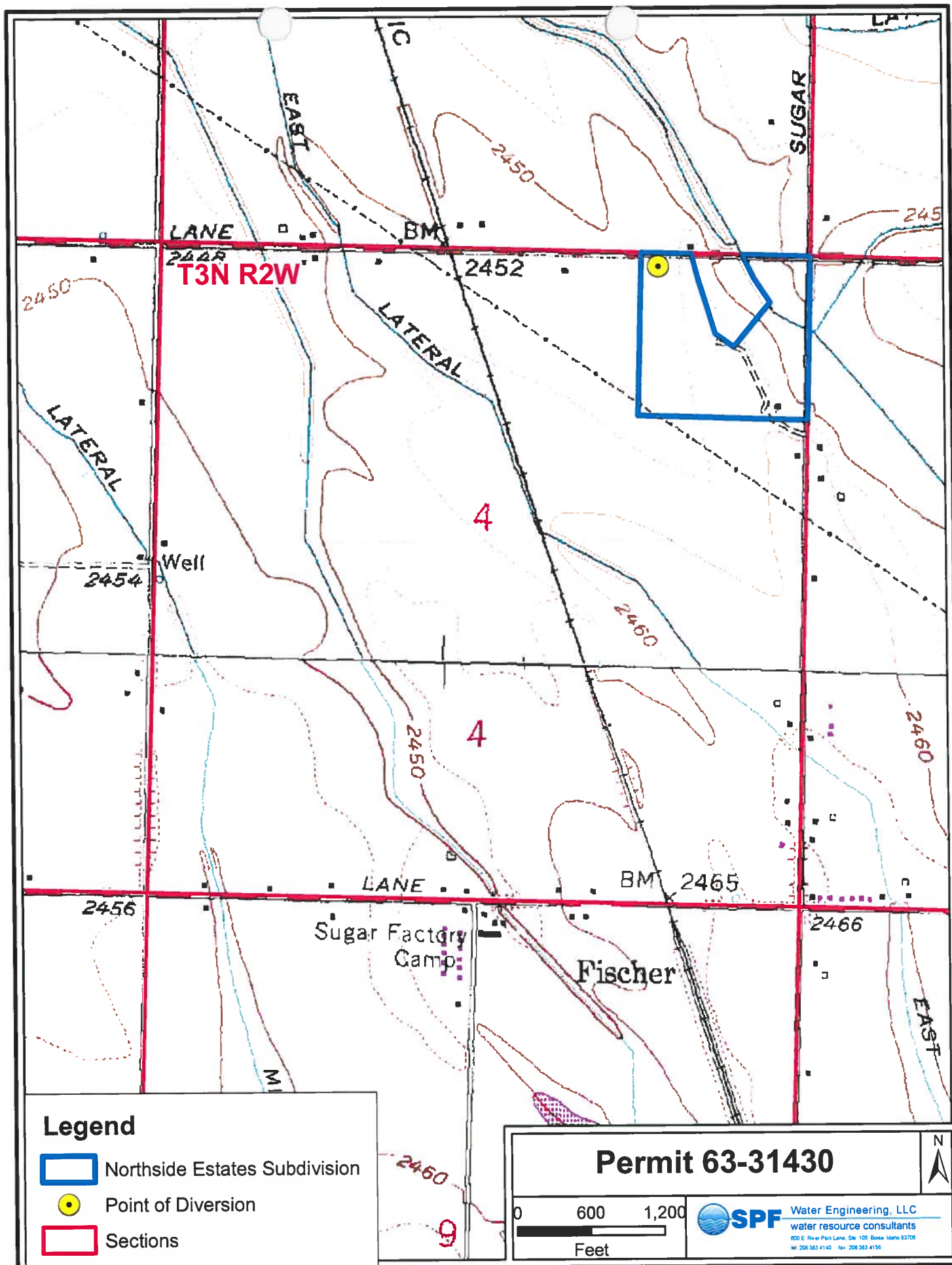
Company name:
Created by:
Phone:
Fax:
Date:

Position	Count	Description	Single Price
		Cos phi - power factor: 0,86-0,84 Rated speed: 3440-3460 rpm Full load motor efficiency: 84.0 % Enclosure class (IEC 34-5): 58 Insulation class (IEC 85): F Built-in temp. transmitter: Y	

SCANNED
MAR 16 2009

ATTACHMENT C

TOPO MAP, 2006 AERIAL PHOTO, PLAT MAP



2006 Aerial Photo

T3N R2W

Legend

-  Northside Estates Subdivision
-  Point of Diversion
-  Sections

Permit 63-31430

0 600 1,200
Feet



Water Engineering, LLC
water resource consultants
820 E. River Park Lane Ste. 105 Boise Idaho 83708
tel: 208.383.4140 fax: 208.383.4156



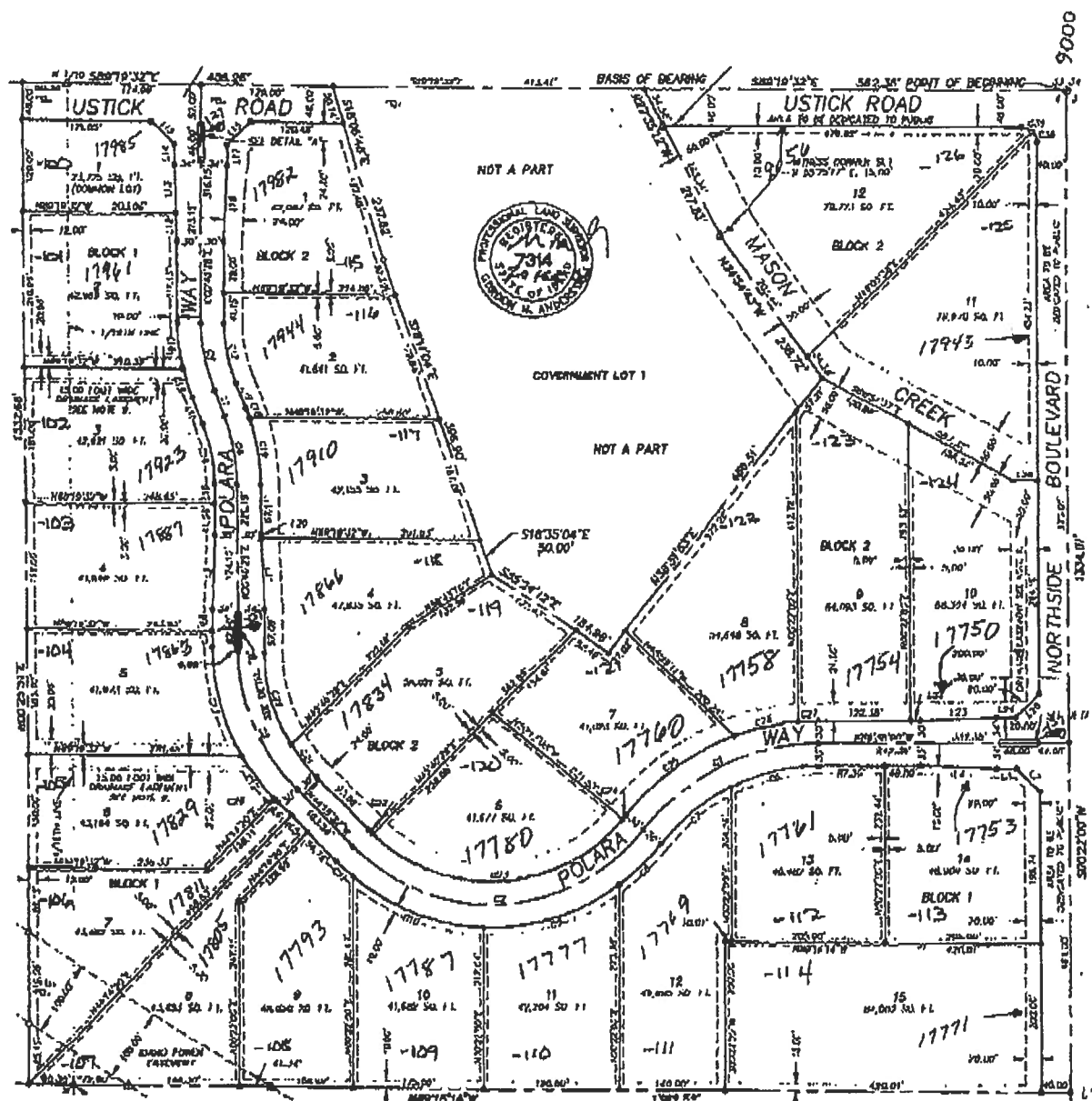
18-05-2004 04:41am From-CANYON COUNTY PSD

+208 454 6633

T-615 P.001/001 F-233

ALL NAMPA ADDRESSING

Northside
Subdivision



**NORTHSIDE ESTATES
SUBDIVISION**

ATTACHMENT D
PHOTOS



Well house located in Lot 1, Block 1, Northside Estates Subdivision



8-inch Well



Mainline System and Storage Tanks



Controlling Works