

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 21-7588

Exam Date: 8/9/2007

1. Current Owner: DAVID REDD
918 WILSHIRE CT
FARMINGTON UT 84025
(801)451-6115

Or

HAL CHRISTENSEN
918 WILSHIRE CT
FARMINGTON UT 84025
(801)451-6115

Or

CODY FRAUGHTON
918 WILSHIRE CT
FARMINGTON UT 84025
(801)521-2903

Or

LONNIE BULLARD
918 WILSHIRE CT
FARMINGTON UT 84025
(801)451-6115

2. Accompanied by: NOBODY

Phone No:

Address:

Relationship to Permit Holder:

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
2. Other water rights with the same point of diversion:

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER

NW1/4NW1/4

Sec. 11, Twp 09N, Rge 43E, B.M.

FREMONT County

Method of Determination: GPS

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
09N	43E	10	X																
09N	43E	11					X												

Method of Determination: ArcView/Freemont County Taxlot Data

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0011016		3			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: Using theoretical pump flow calculations the flow should be around 0.08 CFS

F. 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: 0.6 AF/home X 4 homes = 2.4 AFA

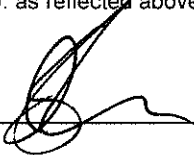
G. NARRATIVE/REMARKS/COMMENTSHave conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.080 CFS	2.4 AFA
<u>Totals:</u>		0.080 CFS	2.4 AFA

2. Recommended Amendments

___Change P.D. as reflected above ___Add P.D. as reflected above ___None

___Change P.U. as reflected above ___Add P.U. as reflected above ___Other

I. AUTHENTICATIONField Examiner's Name Joseph Larsen  Date September 20, 2007

Reviewer _____ Date _____

THEORETICAL PUMP FLOW CALCULATIONS

Formula:

$$Q_{cfs} = [(Hp)(8.814)(Eff)] \div [Lift + (psi \times 2.308)]$$

$$\begin{aligned} Hp &= \text{Horsepower} = \underline{3} \\ Eff &= \text{Efficiency} = \underline{70} \quad (\text{Usually } 70\%) \\ \text{Lift: } &(\text{Static Level} + \text{Assumed Draw down}) \\ \text{Static Water Level} &= \underline{180} \text{ ft.} \\ \text{Assumed Draw down} &= + \underline{8} \text{ ft.} \\ \text{Lift} &= \underline{188} \end{aligned}$$

OR

$$\text{Measured Dynamic Water Level} = \underline{\hspace{2cm}} \text{ ft.}$$

$$psi = \text{Operating Pressure} = \underline{20} \text{ psi}$$

$$Q_{cfs} = \left[\frac{\underline{3}}{Hp} \times 8.814 \times \frac{\underline{0.70}}{Eff} \right] \div \left[\frac{\underline{188}}{Lift} + \left(\frac{\underline{20}}{psi} \times 2.308 \right) \right]$$

$$Q_{cfs} = \left[\underline{18.5094} \right] \div \left[\underline{234.16} \right]$$

$$Q_{cfs} = \underline{.08} \text{ cfs}$$

Data From ANDREW WELL DRILLING WELL LOG

PERMIT NO. 21-7588

Comment Report

21-7588

1. jlarsen 9/20/2007 Field Report Narrative

Comment: System consists of one 3 HP pump and pressure tank that supplies water to four lots via 4-1 inch poly lines.

Currently there are two lots with homes hooked to the system and two lots that are vacant.

There is evidence of some lawn irrigation and the home owned by Hal Christensen has a drip irrigation system that waters about 12 pine trees.

2. jlarsen 9/20/2007 POD

Comment: Updated shape

3. jlarsen 9/20/2007 POU

Comment: Updated Shape

4. jlarsen 9/20/2007 POU

Comment: Updated PLS

5. jlarsen 9/20/2007 POU Overlap Analysis

Comment: POU with overlapping QQ are:

21-7075

21-7076

21-7141

21-7528

21-11663

21-4025

21-12538

21-12539

21-2104

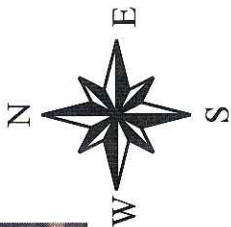
21-2102

21-2045

Type	WR #	Owner	Source	TBS	NEHE	NWHE	SWHE	SEHE	NENW	NWNY	SWNY	SENY	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	21 2045	GEORGE A HIBBARD, HENRY ARNOLD,	SPRING CREEK	09N43E11								40	20				5				25
Right	21 2102	LA VAR A CHERRY	GREEN CANYON SPRINGS	09N43E11								40									40
Right	21 2104	LA VAR A CHERRY	BLUE CREEK	09N43E11								40									40
Right	21 4025	DONNA P CHERRY, LA VAR A CHERRY,	BLUE CREEK	09N43E11							10	16		25	20						101
Right	21 7075	LAYLE J CHERRY	BLUE CREEK	09N43E11	3	14			12	15		35	22								139
Right	21 7076	LAYLE J CHERRY	UNNAMED STREAM	09N43E11	3	14			12	15		35	22								139
Right	21 7141	LAYLE J CHERRY	BLUE CREEK UNNAMED STREAM	09N43E11	3	14			12	15		30	35	22							169
App	21 7528	FRANK SUMMERS,	GROUND WATER	09N43E11	3	14			12	15		30	35	22							169
Permit	21 7589	DAVID REDD, JAL CHRISTENSEN, CODY FRAUGHTON, LONNIE BULLARD	GROUND WATER	09N43E11					X												0
Claim	21 2045	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	SPRING CREEK	09N43E11								40		20	30						50
Claim	21 2102	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	GREEN CANYON SPRINGS	09N43E11								40									40
Claim	21 2104	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11							10	16		25	20						101
Claim	21 4025	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	3	14			12	15		35	22								139
Claim	21 7075	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	GREEN CANYON SPRINGS	09N43E11	3	14			12	15		31	31	24							175.1
Claim	21 7076	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	4	19			15	17		31	31	24							175.1
Claim	21 12539			09N43E11	4	19			15	17		31	31	24							175.1
Rec	21 4025	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	UNNAMED STREAM	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 12538	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	UNNAMED STREAM	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 7076	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	UNNAMED STREAM	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 12539	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 7075	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 2104	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	UNNAMED STREAM	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 2102	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7
Rec	21 2045	NORTH FORK HIGHLANDS PROPERTY OWNERS ASSOCIATION INC.	BLUE CREEK	09N43E11	3.3	19	1.1	0.3	20	23		39	39	33							215.7

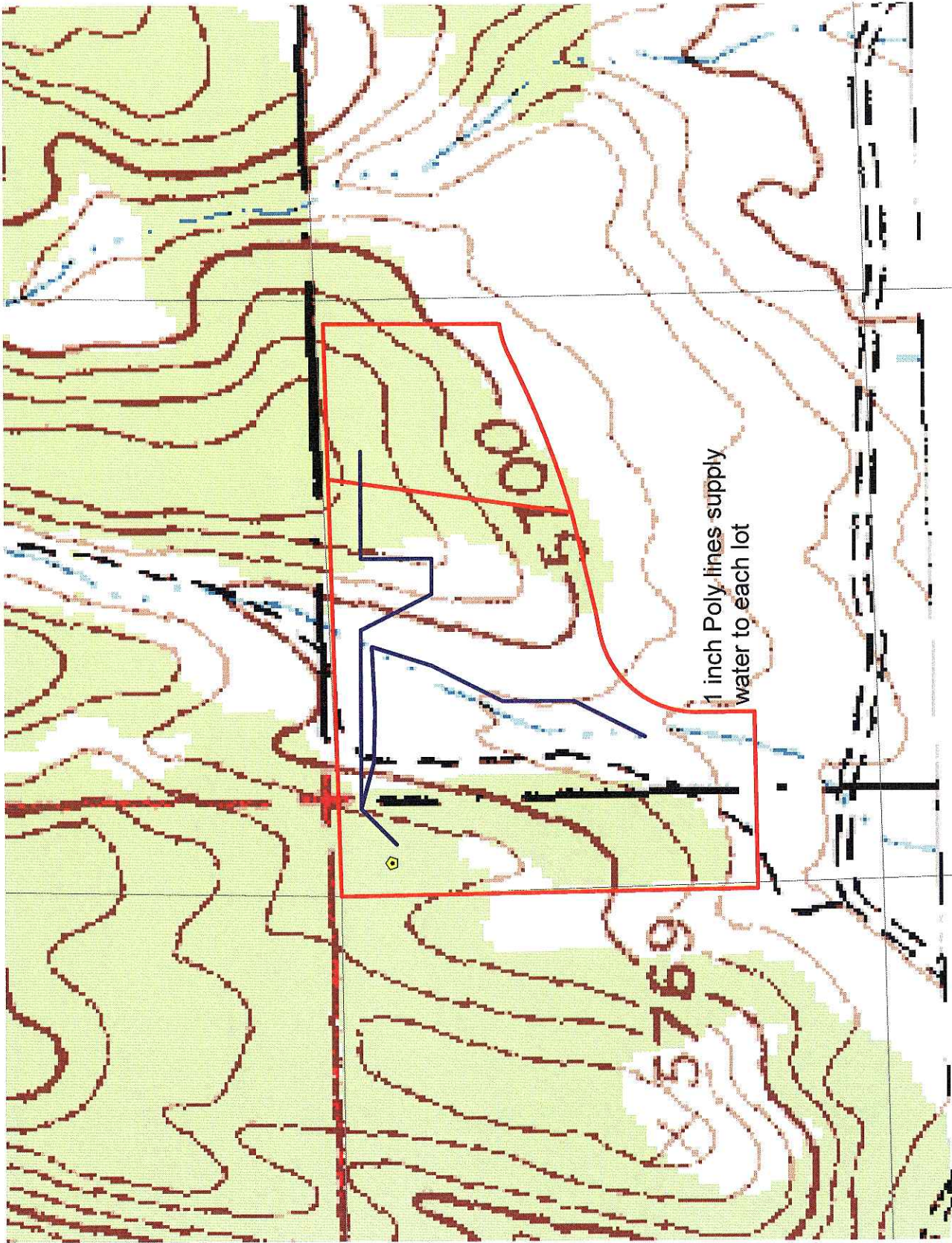
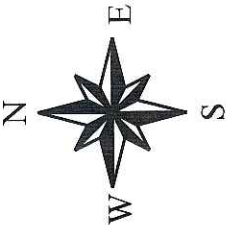
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Permit # 21-7588



- POU.shp
- GCDB09N43E GCDB
- Permit POD

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- POU.shp
- GCDB09N43E GCDB
- Permit POD





