

BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

May 15, 2006

Allen Merritt
Idaho Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301

Re: Permit 37-08563 – Gail L. Reiter

Dear Allen:

Enclosed is a beneficial use examination completed by Charles E. Brockway on May 09, 2006 for permit 37-08563, owned by Gail L. Reiter. This examination is for the existing well that provides irrigation water for approximately three (3) acres of property, via an existing sprinkler irrigation system, and the domestic use for a proposed home.

Thank you for your prompt processing of the permit application.
Please call if you have any questions on the field exam.

Thank you.

Sincerely,

Charles E. Brockway, P.E.
Certified Water Rights Examiner

Enc.

cc: Henry Reiter

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506

RECEIVED
MAY 17 2006
DEPT. OF WATER RESOURCES
SOUTHERN REGION

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED
MAY 17 2006
DEPT. OF WATER RESOURCES
SOUTHERN REGION

A. GENERAL INFORMATION

1. Owner: Gail Reiter Permit No.: 37-8563
Current Address: 2039 Vista Cajon, Newport Beach, CA 92660 Phone No.: (909) 980-1643
2. Accompanied by: Henry Reiter Exam Date: 05/09/2006
Address: see above Phone No.: see above
Relationship to Permit Holder: Spouse
3. Source: Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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
		NE	SW	NW	05	03N	18E	Blaine	Aerial Photo

2. Place(s) of Use:

Indicate Method of Determination: Aerial Photo

TWP	RNG	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	18E	05							3										

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

See Attached Figures

- ☒ 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. See attached pump curve

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		3		Model 35CD: Gould Submersible Pump	

D. FLOW MEASUREMENTS

1. 4' Orifice (see attached Brockway Engineering Orifice Details)

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calibration
4' Orifice					4'	

2. Measurements: Brockway Engineering's 4' Orifice was utilized on-site to evaluate the flow of the well at full discharge.
A 2.019" orifice plate was used to obtain a head of 8.75" with a resulting flow of 45 gpm.

E. NARRATIVE / REMARKS / COMMENTS

Henry Reiter was on-site during the evaluation. The irrigated acres were calculated using aerial photography, but was field checked at the time of the evaluation. Approximately 3.6 acres are currently being irrigated, but only 3 acres were applied for under the permit. Therefore, the applicant may need to reduce their current irrigated acreage.

The lot does not have a dwelling on-site; however, future development is proposed and according to the attached letters - notes the lot has had a temporary dwelling that utilized water from the well for domestic purposes.

The permit applied for a discharge rate of 0.13 cfs; however, it was found that that the existing pump could only produce a max discharge of 45 gpm. The well could produce the 0.09 cfs limit for the irrigation. Therefore, it is being proposed that the permit be licensed for the 0.09 cfs irrigation limit and the 0.04 irrigation limit that was applied for, but limit the license to a combined limit of 0.10 cfs.

Have conditions of permit approval been met? ☒ Yes ☐ No

F. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: 4' Orifice - See Attached Orifice Meter Specifications - 8.75" head with a 2.09" orifice plate = 45 gpm

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{3 \text{ acres} \times 4 \text{ af} = 12 \text{ afa}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{0.09 \times 199 \times 1.9835 = 35.5}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{12 \text{ afa}}$$

2. Volume Calculations for Other Uses:

Domestic - standard domestic use of no more than 13,000 gallons per day

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>Irrigation</u>	<u>01/01</u>	<u>12/31</u>	<u>0.09</u>	<u>12</u>
<u>Domestic</u>	<u>01/01</u>	<u>12/31</u>	<u>0.04</u>	<u> </u>
TOTALS:			<u>0.10</u>	<u> </u>

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: Brockway Engineering - Charles E. Brockway

Date: 05/15/2006

Reviewer: _____

Date: _____

SEAL





REITER, GAIL - BENEFICIAL USE FIELD EXAM (05/09/06)

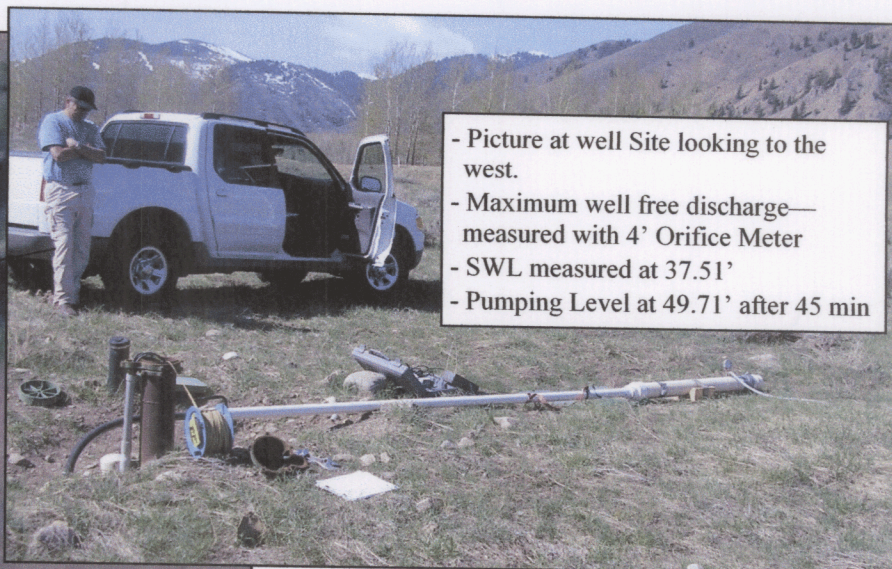
NAIP 2004 AERIAL PHOTO
T. 3N., R. 18E., SEC 5 SWNW

BROCKWAY ENGINEERING, PLLC.
ALR - 04/06/06 (Rev. DTN - 05/12/06)

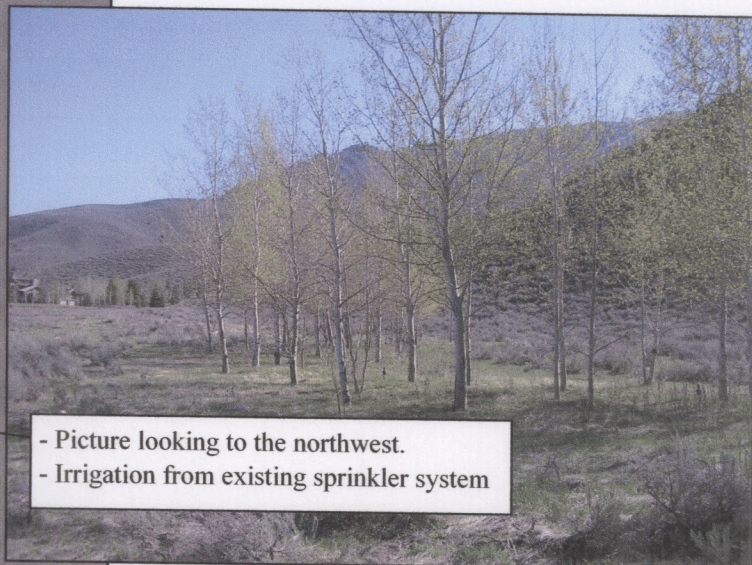
-  Gimlett_Terrace_Sub
-  2004 Irrigation (~ 3.6 Acres)
-  Reiter Well



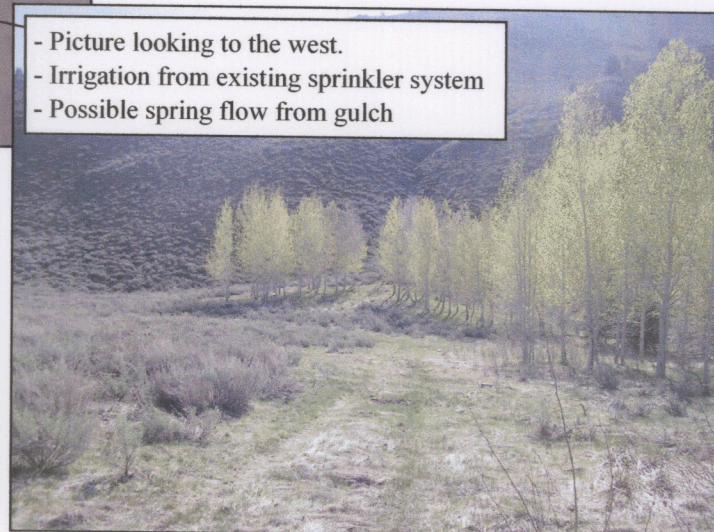
- Power Box & Sprinkler Control Panel



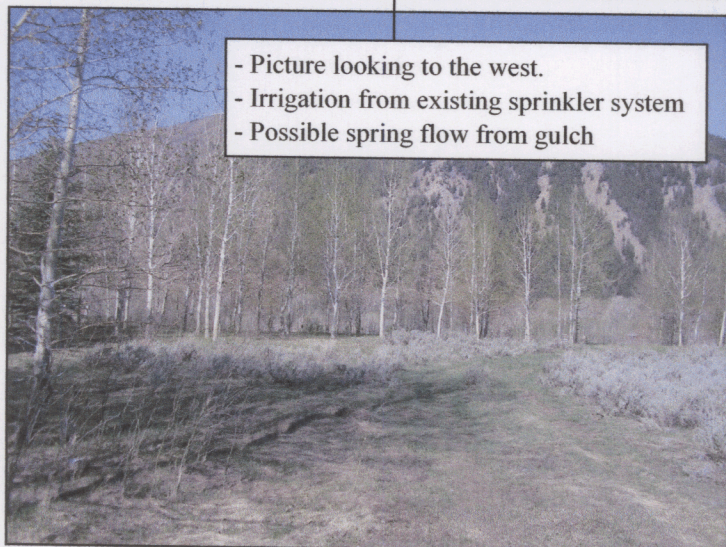
- Picture at well Site looking to the west.
- Maximum well free discharge—measured with 4' Orifice Meter
- SWL measured at 37.51'
- Pumping Level at 49.71' after 45 min



- Picture looking to the northwest.
- Irrigation from existing sprinkler system



- Picture looking to the west.
- Irrigation from existing sprinkler system
- Possible spring flow from gulch



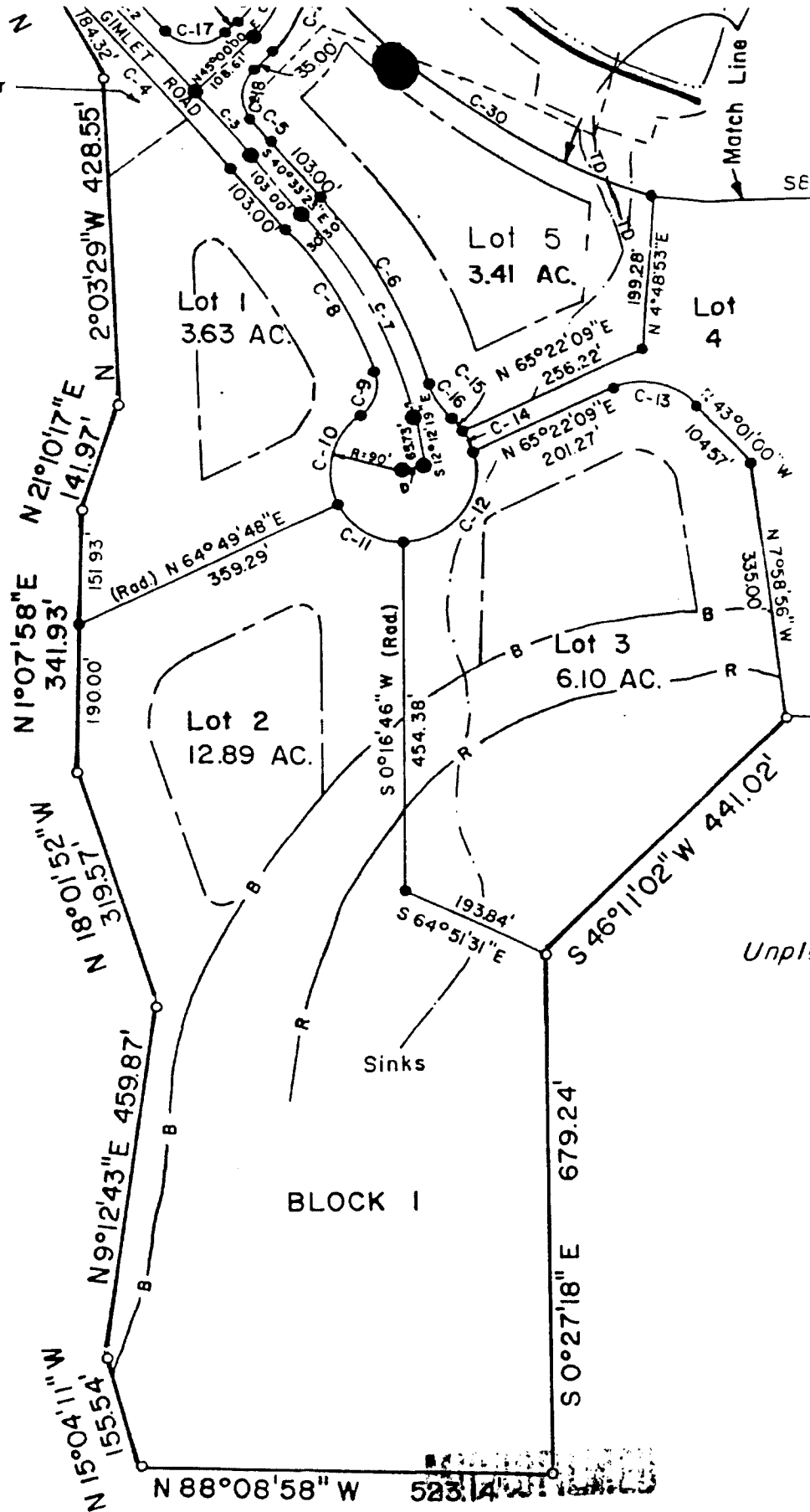
- Picture looking to the west.
- Irrigation from existing sprinkler system
- Possible spring flow from gulch



Area reserved for landscaping and sign easement

Unplatted

PLAT BEARING DATA		
Designation	Bearing	Distance
A	N 01° 03' 31" E	16.66'
B	N 27° 38' 53" W	98.45'
C	N 27° 38' 53" W	153.13'
D	S 77° 47' 39" W	26.33'
E	S 53° 24' 49" E	30.00'



FEB 21 1990

Unplatted

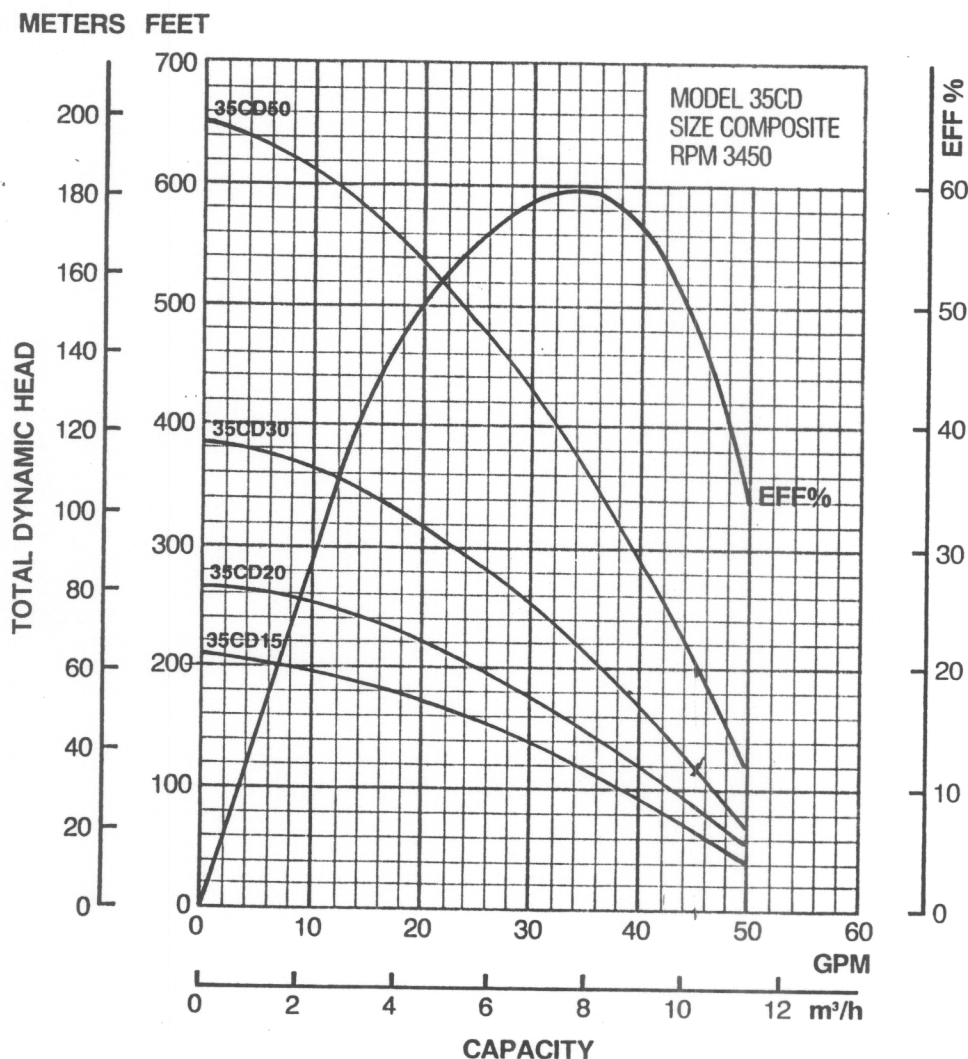
RECEIVED

RECEIVED - Application - Lot 2

37-08563

Goulds Submersible Pumps

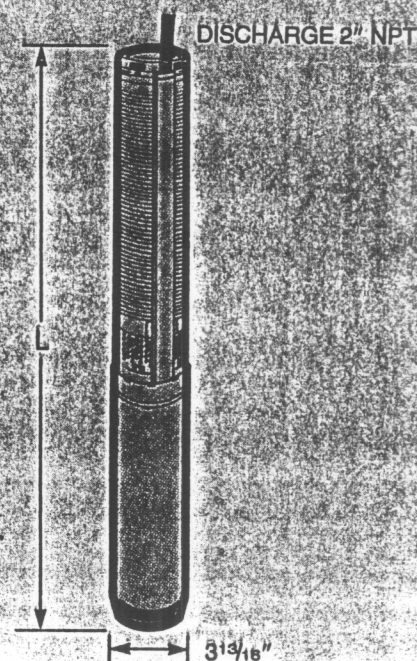
MODEL 
35CD



DIMENSIONS AND WEIGHTS

HP	Stages	Model Number	Length	Weight
1 1/2	7	35CD15412	39 1/2"	37
		35CD15432, 34	38 3/8"	34
2	9	35CD20412	52 1/8"	50
		35CD20432, 34	50 5/8"	49
3	13	35CD30412	65 1/8"	65
		35CD30432, 34	64 1/4"	56
5	22	35CD50412	89 1/4"	88
		35CD50432, 34	83 1/4"	72

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)



LOWARA
A Goulds Pumps Company
Milwaukee, WI 53211

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

PRINTED IN U.S.A.

ORIFICE IN PIPE FLOW (GPM)

4" Orifice Pipe Meter

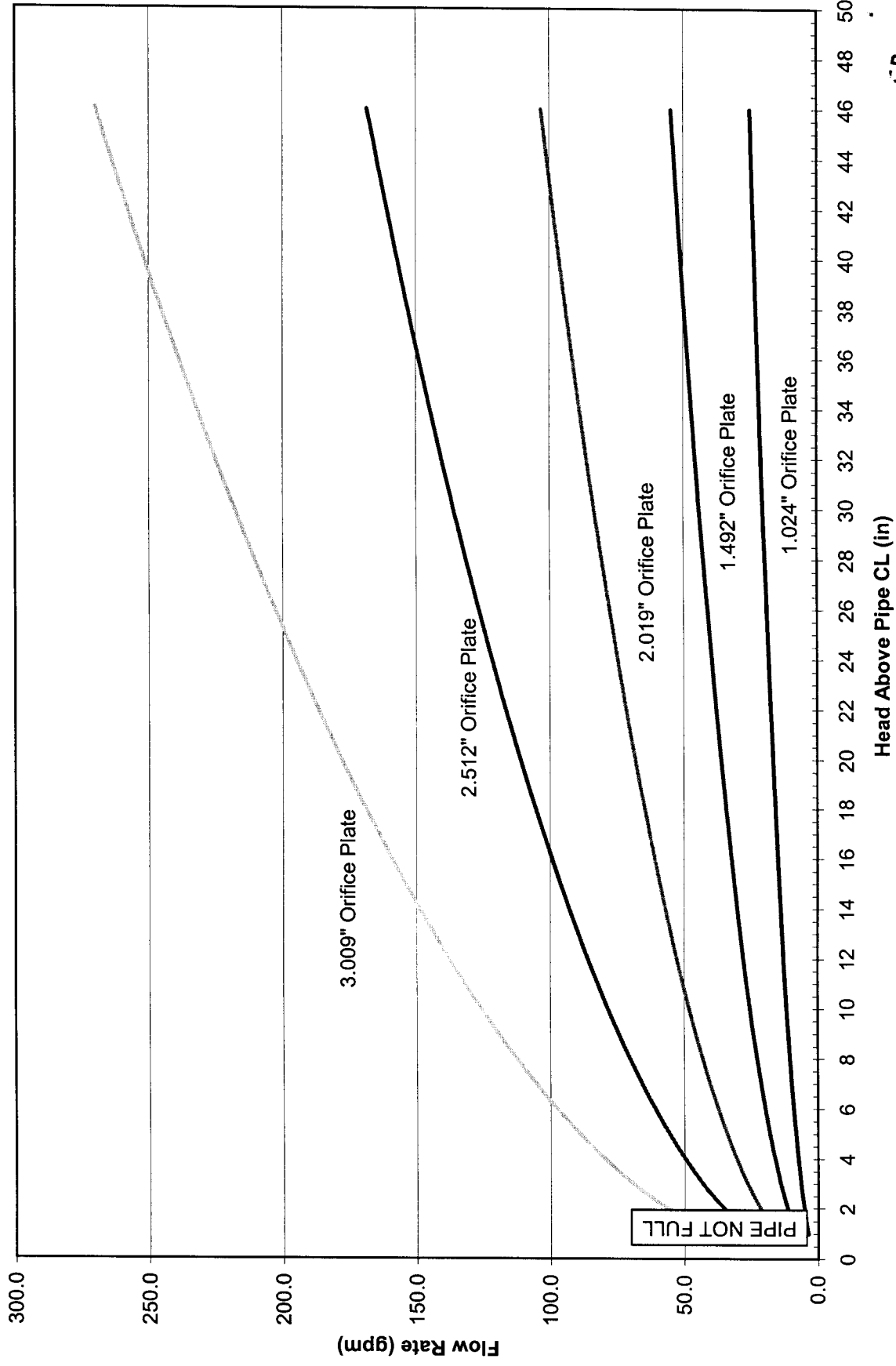
	Per Hunter Rouse 1949 (pg 35)				
	$Q = Cd \cdot A \cdot \sqrt{2 \cdot g \cdot H}$				
	Pipe Diameter			3.990"	
	Orifice Diameter				
	1.024"	1.492"	2.019"	2.512"	3.009"
d/D	0.257	0.374	0.506	0.630	0.754
Cd	0.621	0.637	0.658	0.694	0.776

	Per Hunter Rouse 1949 (pg 35)				
	$Q = Cd \cdot A \cdot \sqrt{2 \cdot g \cdot H}$				
	Pipe Diameter			3.990"	
	Orifice Diameter				
	1.024"	1.492"	2.019"	2.512"	3.009"
d/D	0.257	0.374	0.506	0.630	0.754
Cd	0.621	0.637	0.658	0.694	0.776

Head (in)	Flow in GPM				
1	PIPE NOT FULL				
1.5					
2					
2.5	5.8	12.7	24.0	39.2	62.9
3	6.4	13.9	26.3	43.0	68.9
3.5	6.9	15.0	28.5	46.4	74.5
4	7.4	16.1	30.4	49.6	79.6
4.5	7.8	17.1	32.3	52.6	84.4
5	8.3	18.0	34.0	55.5	89.0
5.5	8.7	18.9	35.7	58.2	93.3
6	9.0	19.7	37.3	60.8	97.5
6.5	9.4	20.5	38.8	63.3	101.5
7	9.8	21.3	40.2	65.6	105.3
7.5	10.1	22.0	41.7	67.9	109.0
8	10.4	22.7	43.0	70.2	112.6
8.5	10.8	23.4	44.3	72.3	116.0
9	11.1	24.1	45.6	74.4	119.4
9.5	11.4	24.8	46.9	76.5	122.7
10	11.7	25.4	48.1	78.5	125.9
10.5	12.0	26.0	49.3	80.4	129.0
11	12.2	26.7	50.4	82.3	132.0
11.5	12.5	27.3	51.6	84.1	135.0
12	12.8	27.8	52.7	86.0	137.9
12.5	13.1	28.4	53.8	87.7	140.7
13	13.3	29.0	54.8	89.5	143.5
13.5	13.6	29.5	55.9	91.2	146.2
14	13.8	30.1	56.9	92.8	148.9
14.5	14.1	30.6	57.9	94.5	151.6
15	14.3	31.1	58.9	96.1	154.1
15.5	14.5	31.6	59.9	97.7	156.7
16	14.8	32.2	60.8	99.2	159.2
16.5	15.0	32.7	61.8	100.8	161.7
17	15.2	33.1	62.7	102.3	164.1
17.5	15.4	33.6	63.6	103.8	166.5
18	15.7	34.1	64.5	105.3	168.9
18.5	15.9	34.6	65.4	106.7	171.2
19	16.1	35.0	66.3	108.2	173.5
19.5	16.3	35.5	67.2	109.6	175.8
20	16.5	35.9	68.0	111.0	178.0
20.5	16.7	36.4	68.9	112.3	180.2
21	16.9	36.8	69.7	113.7	182.4
21.5	17.1	37.3	70.5	115.0	184.5
22	17.3	37.7	71.3	116.4	186.7
22.5	17.5	38.1	72.1	117.7	188.8
23	17.7	38.6	72.9	119.0	190.9

Head (in)	Flow in GPM				
23.5	17.9	38.97	73.7	120.3	192.9
24.0	18.1	39.38	74.5	121.6	195.0
24.5	18.3	39.79	75.3	122.8	197.0
25.0	18.5	40.19	76.0	124.1	199.0
25.5	18.6	40.59	76.8	125.3	201.0
26.0	18.8	40.99	77.6	126.5	202.9
26.5	19.0	41.38	78.3	127.7	204.9
27.0	19.2	41.77	79.0	128.9	206.8
27.5	19.4	42.15	79.8	130.1	208.7
28	19.5	42.54	80.5	131.3	210.6
28.5	19.7	42.91	81.2	132.5	212.5
29	19.9	43.29	81.9	133.6	214.3
29.5	20.0	43.66	82.6	134.8	216.2
30	20.2	44.03	83.3	135.9	218.0
30.5	20.4	44.39	84.0	137.0	219.8
31	20.6	44.76	84.7	138.1	221.6
31.5	20.7	45.12	85.4	139.3	223.4
32	20.9	45.47	86.0	140.4	225.1
32.5	21.0	45.83	86.7	141.4	226.9
33	21.2	46.18	87.4	142.5	228.6
33.5	21.4	46.53	88.0	143.6	230.4
34	21.5	46.87	88.7	144.7	232.1
34.5	21.7	47.22	89.3	145.7	233.8
35	21.8	47.56	90.0	146.8	235.5
35.5	22.0	47.89	90.6	147.8	237.1
36	22.1	48.23	91.3	148.9	238.8
36.5	22.3	48.56	91.9	149.9	240.5
37	22.5	48.90	92.5	150.9	242.1
37.5	22.6	49.23	93.1	151.9	243.7
38	22.8	49.55	93.8	152.9	245.3
38.5	22.9	49.88	94.4	154.0	247.0
39	23.1	50.20	95.0	154.9	248.6
39.5	23.2	50.52	95.6	155.9	250.1
40	23.3	50.84	96.2	156.9	251.7
40.5	23.5	51.16	96.8	157.9	253.3
41	23.6	51.47	97.4	158.9	254.8
41.5	23.8	51.78	98.0	159.8	256.4
42	23.9	52.10	98.6	160.8	257.9
42.5	24.1	52.40	99.2	161.8	259.5
43	24.2	52.71	99.7	162.7	261.0
43.5	24.3	53.02	100.3	163.6	262.5
44	24.5	53.32	100.9	164.6	264.0
44.5	24.6	53.62	101.5	165.5	265.5
45	24.8	53.92	102.0	166.4	267.0
45.5	24.9	54.22	102.6	167.4	268.5
46	25.0	54.52	103.2	168.3	269.9

4" Orifice Meter



REVISED
EB 08 1993

State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 37-08563

Proposed Priority: August 16, 1989

Maximum Diversion Rate:

0.13 CFS

This is to certify, that GAIL L. REITER
C/O GARY D. SLETTE, ESQ.
P.O. BOX 1906
TWIN FALLS, ID 833031906

has applied for a permit to appropriate water from: GROUNDWATER
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	04/01 to 11/01	0.09 CFS
DOMESTIC	01/01 to 12/31	0.04 CFS
	Totals	0.13 CFS

LOCATION OF POINT(S) OF DIVERSION:

SWNW Sec. 5, Township 03N, Range 18E
BLAINE County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
03N	18E	5	SWNW	3		3

Total number of acres irrigated: 3

PLACE OF USE: DOMESTIC, same as IRRIGATION use

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before **March 1, 1991**.
2. Subject to all prior water rights.
3. Irrigation use under this permit is authorized only in connection with a domestic use.
4. Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
5. The rate of diversion of water for irrigation under this permit and all other water rights on the same land shall not exceed 0.03 cubic feet per second for each acre of land.
6. Place of use also known as Lot 2, Gimlet Terrace Subd.
7. Domestic use is for one home.

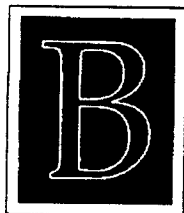
This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this

13th day of February, 1990.

MICROFILMED

FEB 21 1990

[Signature]
for R. Keith Higginson, Director



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

JAN 10 2000

Department of Water Resources

January 7, 2000

Mr. Glen Saxton
Idaho Department of Water Resources
1301 North Orchard
P.O. Box 83720
Boise, Idaho 83720-0098

Re: Permit No. 37-08563-Gail L. Reiter

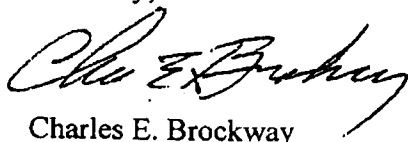
Dear Mr. Saxton:

This letter is in response to our telephone discussion of September 16th and December 20th 1999 regarding the use of water under Mrs. Reiter's permit in aid of licensing. As I indicated in my letter of September 14th, 1999, the well and irrigation system is in and water has been used for irrigation. In response to your question relative to use of the water from the well for domestic purposes, I inquired of Mr. Harry Rinker who developed the subdivision and received the enclosed letter. He indicates that there has been use of water from the well for domestic purposes on Lot #2 during construction of homes and adjacent lots. I recall mobile homes on Lot #2 during my visits in connection with water rights exams on Mr. Rinker's Lot #6 property. On at least one of my visits, Gary Funderberg of your office accompanied me and he may recollect the temporary housing on Lot #2. In addition, Allen Merritt of your office has visited the Rinker property and may have some photographs, which incidentally show activity on Lot #2.

As I indicated in my letter of September 14, 1999, the Southern Region office has indicated that they would like to schedule a field exam on the above right. Prior to that visit, I would like to gain some idea of the applicability of the stubout rule or applicability of the temporary housing toward beneficial use satisfaction so that the irrigation portion of the permit may be approved. I still believe that it is only fair and reasonable to apply the same criteria to single family users as to multi-user systems, as long as due diligence has been shown and adequate progress has been made.

Please let me know if I can assist with additional information.

Sincerely,



Charles E. Brockway

CC: Henry Reiter & Gail Reiter
Enclosure: Letter from H. Rinker

CEB/kl

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098
Phone: (208) 327-7900 FAX: (208) 327-7866

January 25, 2000

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

Charles E. Brockway
2016 North Washington St.
Suite 4
Twin Falls, ID 83301

RE: PERMIT NO. 37-08563 - GAIL L. REITER

Dear Mr. Brockway:

I have reviewed your letter dated January 7, 2000, in which you inquire about the department's view of past use of water under terms of Permit No. 37-08563 on property owned by Gail L. Reiter ("permit holder"). From the information you have provided, it appears that the permit holder likely has established the domestic use on the lot through use of mobile homes on the property as well as the irrigation use. It doesn't appear, in this case, that the stub-in rule is applicable, since water has been diverted and used for the two permitted uses.

By copy of this letter to the department's southern regional office, I am notifying that office that they can schedule and conduct the examination for beneficial use. I am also forwarding with this letter, a copy of Harry S. Rinker's letter dated January 6, 2000, concerning past domestic use of water on the property as information to consider when conducting the field examination.

If you have questions, please feel free to contact the department.

Sincerely,

A handwritten signature in black ink, reading 'L. Glen Saxton'.

L. GLEN SAXTON, P.E.
Chief, Water Allocation Bureau

Encl: 1

c: Regional Office



RINKER COMPANY

VIA FACSIMILE 208/736-8506

January 6, 2000

Dr. Charles E. Brockway
BROCKWAY ENGINEERING PLLC
2016 N. Washington Street, #4
Twin Falls, ID 83301

Dear Chuck:

You asked that I review our records to verify the year/years that we had a trailer connected to the well system on Lot #2 Gimlet Terrace.

During the building season (May through November of 1991 and 1992 which was the time we were finishing our home on Lot #6) we had an enclosed trailer on Lot #2 and since it had a bathroom facility in it and the well was closely adjacent we connected the water system to the trailer during the time it was there.

If I can furnish further information, please advise.

Sincerely,

Harry S. Rinker
(Dictated by Mr. Rinker and
faxed in his absence without
signature to avoid delay)

/gt

RECEIVED

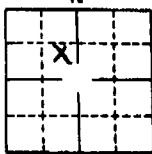
JUL 20 1984

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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.

Department of Water Resources

1. WELL OWNER Name <u>Harry Rinker</u> <u>X Rinker Company</u> Address <u>Box 7250 Newport Beach, CA 92658-0250</u> Owner's Permit No. <u>37-84-C-0019-000</u>		7. WATER LEVEL Static water level <u>40' 4"</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 <u>55</u> °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																																																																
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☐ Pump ☐ Bailer ☒ 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>40+</td><td></td><td>3</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	40+		3																																																																																																																									
Discharge G.P.M.	Pumping Level	Hours Pumped																																																																																																																																
40+		3																																																																																																																																
3. PROPOSED USE ☒ Domestic ☐ Irrigation ☐ Test ☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection ☐ Other _____ (specify type)		9. LITHOLOGIC LOG <table border="1"><thead><tr><th rowspan="2">Bore Diam.</th><th colspan="2">Depth</th><th rowspan="2">Material</th><th rowspan="2">Water Yes No</th></tr><tr><th>From</th><th>To</th></tr></thead><tbody><tr><td>8</td><td>0</td><td>2 1/2</td><td>Surface dirt & gravel</td><td></td></tr><tr><td></td><td>2 1/2</td><td>13</td><td>Gravel & clay</td><td></td></tr><tr><td></td><td>13</td><td>32</td><td>Big boulders</td><td></td></tr><tr><td></td><td>32</td><td>64</td><td>Gravel & clay</td><td></td></tr><tr><td></td><td>64</td><td>69</td><td>Broken rock & clay</td><td></td></tr><tr><td></td><td>69</td><td>140</td><td>Line w/ small layers of clay or soft shale</td><td></td></tr><tr><td></td><td>140</td><td>141</td><td>Soft layer</td><td>?</td></tr><tr><td></td><td>141</td><td>160</td><td>Grey w/ green limestone</td><td></td></tr><tr><td></td><td>160</td><td>249 1/2</td><td>Grey w/ green limestone - Harder</td><td></td></tr><tr><td></td><td>249 1/2</td><td>255 1/2</td><td>Reddish brown w/ green</td><td>?</td></tr><tr><td></td><td>255 1/2</td><td>258 1/2</td><td>Brown w/ green</td><td>?</td></tr><tr><td></td><td>258 1/2</td><td>269 1/2</td><td>Dark grey w/ green</td><td></td></tr><tr><td></td><td>269 1/2</td><td>271</td><td>Dark grey w/ less green</td><td></td></tr><tr><td></td><td>271</td><td>275</td><td>Black or dark grey w/ little green</td><td></td></tr><tr><td></td><td>275</td><td></td><td>Fracture (torque up) lots of green</td><td></td></tr><tr><td></td><td>275</td><td>277</td><td>Black w/ little green</td><td></td></tr><tr><td></td><td>277</td><td>282</td><td>Brown-grey w/ soft yellow</td><td>X</td></tr><tr><td></td><td>282</td><td>303</td><td>Brown-grey w/ lots green - Harder</td><td></td></tr><tr><td></td><td>303</td><td>303 1/2</td><td>Fractured brown grey w/ lots of green</td><td>X</td></tr><tr><td></td><td>303 1/2</td><td>324 1/2</td><td>Green w/ some brown & grey - Hard</td><td></td></tr><tr><td></td><td>324 1/2</td><td>325</td><td>Green w/ some brown & grey</td><td>X</td></tr><tr><td></td><td>325</td><td>334 1/2</td><td>Brown & grey green</td><td></td></tr><tr><td></td><td>334 1/2</td><td>337</td><td>Brown & grey green (softer)</td><td>X</td></tr><tr><td></td><td>337</td><td>340</td><td>Brown & grey & green</td><td>X</td></tr></tbody></table>		Bore Diam.	Depth		Material	Water Yes No	From	To	8	0	2 1/2	Surface dirt & gravel			2 1/2	13	Gravel & clay			13	32	Big boulders			32	64	Gravel & clay			64	69	Broken rock & clay			69	140	Line w/ small layers of clay or soft shale			140	141	Soft layer	?		141	160	Grey w/ green limestone			160	249 1/2	Grey w/ green limestone - Harder			249 1/2	255 1/2	Reddish brown w/ green	?		255 1/2	258 1/2	Brown w/ green	?		258 1/2	269 1/2	Dark grey w/ green			269 1/2	271	Dark grey w/ less green			271	275	Black or dark grey w/ little green			275		Fracture (torque up) lots of green			275	277	Black w/ little green			277	282	Brown-grey w/ soft yellow	X		282	303	Brown-grey w/ lots green - Harder			303	303 1/2	Fractured brown grey w/ lots of green	X		303 1/2	324 1/2	Green w/ some brown & grey - Hard			324 1/2	325	Green w/ some brown & grey	X		325	334 1/2	Brown & grey green			334 1/2	337	Brown & grey green (softer)	X		337	340	Brown & grey & green	X
Bore Diam.	Depth		Material		Water Yes No																																																																																																																													
	From	To																																																																																																																																
8	0	2 1/2	Surface dirt & gravel																																																																																																																															
	2 1/2	13	Gravel & clay																																																																																																																															
	13	32	Big boulders																																																																																																																															
	32	64	Gravel & clay																																																																																																																															
	64	69	Broken rock & clay																																																																																																																															
	69	140	Line w/ small layers of clay or soft shale																																																																																																																															
	140	141	Soft layer	?																																																																																																																														
	141	160	Grey w/ green limestone																																																																																																																															
	160	249 1/2	Grey w/ green limestone - Harder																																																																																																																															
	249 1/2	255 1/2	Reddish brown w/ green	?																																																																																																																														
	255 1/2	258 1/2	Brown w/ green	?																																																																																																																														
	258 1/2	269 1/2	Dark grey w/ green																																																																																																																															
	269 1/2	271	Dark grey w/ less green																																																																																																																															
	271	275	Black or dark grey w/ little green																																																																																																																															
	275		Fracture (torque up) lots of green																																																																																																																															
	275	277	Black w/ little green																																																																																																																															
	277	282	Brown-grey w/ soft yellow	X																																																																																																																														
	282	303	Brown-grey w/ lots green - Harder																																																																																																																															
	303	303 1/2	Fractured brown grey w/ lots of green	X																																																																																																																														
	303 1/2	324 1/2	Green w/ some brown & grey - Hard																																																																																																																															
	324 1/2	325	Green w/ some brown & grey	X																																																																																																																														
	325	334 1/2	Brown & grey green																																																																																																																															
	334 1/2	337	Brown & grey green (softer)	X																																																																																																																														
	337	340	Brown & grey & green	X																																																																																																																														
4. METHOD DRILLED ☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary ☐ Cable ☐ Dug ☐ Other _____		10. Work started <u>6/21/84</u> finished <u>6/26/84</u>																																																																																																																																
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><u>.264</u> inches</td><td><u>8 5/8</u> inches</td><td><u>1</u> feet</td><td><u>69</u> 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><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 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 _____ Type _____ Model No. _____ Diameter _____ Slot size _____ Set from _____ feet to _____ feet Diameter _____ Slot size _____ Set from _____ feet to _____ feet Gravel packed? ☐ Yes ☒ No ☐ Size of gravel _____ Placed from _____ feet to _____ feet Surface seal depth <u>69</u> Material used in seal: ☐ Cement grout ☒ Bentonite ☐ Puddling clay ☐ _____ 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>1/4 inch plate</u>		Thickness	Diameter	From	To	<u>.264</u> inches	<u>8 5/8</u> inches	<u>1</u> feet	<u>69</u> feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	_____ inches	_____ inches	_____ feet	_____ feet	Number	From	To	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet	_____ perforations	_____ feet	_____ feet																																																																																																	
Thickness	Diameter	From	To																																																																																																																															
<u>.264</u> inches	<u>8 5/8</u> inches	<u>1</u> feet	<u>69</u> feet																																																																																																																															
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																															
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																															
_____ inches	_____ inches	_____ feet	_____ feet																																																																																																																															
Number	From	To																																																																																																																																
_____ perforations	_____ feet	_____ feet																																																																																																																																
_____ perforations	_____ feet	_____ feet																																																																																																																																
_____ perforations	_____ feet	_____ feet																																																																																																																																
6. LOCATION OF WELL Sketch map location must agree with written location.  Subdivision Name <u>Grimlet Ranch</u> Lot No. _____ Block No. _____ County <u>Blaine</u> <u>SE</u> 1/4 <u>NW</u> 1/4 Sec. <u>5</u> , T. <u>3</u> , N. <u>18</u> E. <u>40</u>		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>Walker Water Systems, Inc.</u> Firm No. <u>15</u> <u>624 Pierce Street</u> Address <u>Twin Falls, Idaho 83301</u> Date <u>7/3/84</u> Signed by (Firm Official) <u>Ludwick B. Walk</u> and (Operator) <u>Ludwick B. Walk</u>																																																																																																																																

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