

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-21355

Exam Date: 10/6/2011

1. Current Owner: CITY OF CAREY
20482 MAIN ST
PO BOX 9
CAREY ID 83320
(208) 823-4045
2. Accompanied by: Bob Simpson
Phone No: 208-309-0319
Address: P.O. Box 9
Carey, ID 83320
Relationship to Permit Holder: Water Superintendent

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-7766, 37-20384, 37-21243 and 37-22661
2. Other water rights with the same point of diversion: 37-7766 and 37-20384

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER	SW1/4NW1/4	Sec. 22, Twp 01S, Rge 21E, B.M.
BLAINE County		
GROUND WATER	NW1/4NE1/4	Sec. 34, Twp 01S, Rge 21E, B.M.
BLAINE County		

Method of Determination:

Updated to GPS points from spatial data layer collected by staff.

2. PLACE OF USE: MUNICIPAL

Place of use is within the City of Carey and surrounding service area.

Method of Determination:

Place of use is described from a service area map that was submitted with Transfer 71537 (37-7766 adding a point of diversion). Bob Simpson has stated that this is the most current map for the city of Carey service area. (see attached corrected map)

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 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 Size</u>
A0004263		30 HP			4 inch pipe
D0034183		40 HP			6 inch pipe

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portaflow	Polysonic	FUJI		240332		8/2/2011
Panametrics	Polysonic	T878		277960		10/5/2011

3. Measurements:

On 8/2/2011, Cindy Yenter conducted a flow measurement of well # 1. This measurement indicated that well # 1 has a capacity of 336.5 gpm, or 0.75 cfs.

On 10/5/2011, I conducted a flow measurement of well # 2. This measurement indicated that well # 2 has a capacity of 874 gpm, or 1.95 cfs.

E. FLOW CALCULATIONS X Additional Computation Sheets Attached

Measured Method:

N/A

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:

N/A

No volume for municipal use.

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-21355 is for municipal use for the city of Carey. The city system originally had one well. In 2001 the city filed for a new permit 37-20384 for the original well and drilled a second well. Transfer 71537 was filed to add the second well to license 37-7766 and permit 37-20384 was developed for an additional 0.7 cfs.

Permit 37-21355 was filed to develop the excess capacity of the two wells not covered by 37-7766 and 37-20384. This permit authorizes the diversion of up to 1.37 cfs from the two wells for the City of Carey municipal system. These two wells are identified as well # 1 and well # 2. On 8/2/2011, Cindy Yenter conducted a flow measurement of well # 1. This measurement indicated that well # 1 has a capacity of 336.5 gpm, or 0.75 cfs. On 10/5/2011, I conducted a flow measurement of well # 2. This measurement indicated that well # 2 has a capacity of 874 gpm, or 1.95 cfs. The total combined capacity of these two wells is the sum of the two measurements, or 2.70 cfs. Existing license 37-7766 allows for the diversion of up to 0.71 cfs and permit 37-20384 has been recommended for an additional 0.7 cfs from well # 1 and well # 2. This leaves 1.29 cfs of water available to potentially be licensed under this permit ($2.70 - [0.7 + 0.71] = 1.29$). Permit 37-21355 authorizes for the diversion of up to 1.37 cfs from the two wells but would exceed the capacity of the two wells. ($1.37 - [2.78 - 2.70] = 1.29$) **Recommended flow rate is 1.29 cfs with no volume.**

Recommended place of use is the City of Carey and surrounding service area.

After licensing the city will file for a transfer to combine all water rights (37-7766, 37-20384, 37-21355, 37-21243 and 37-22661) within the entire municipal system.

Have 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>
MUNICIPAL	01/01 to 12/31	1.29CFS	N/A
<u>Totals:</u>		1.29 CFS	N/A

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

Sara Reeder

Date

3/22/12

Reviewer

AS Menzies

Date

3/22/12

Corrected Map for

Transfer No. 71537

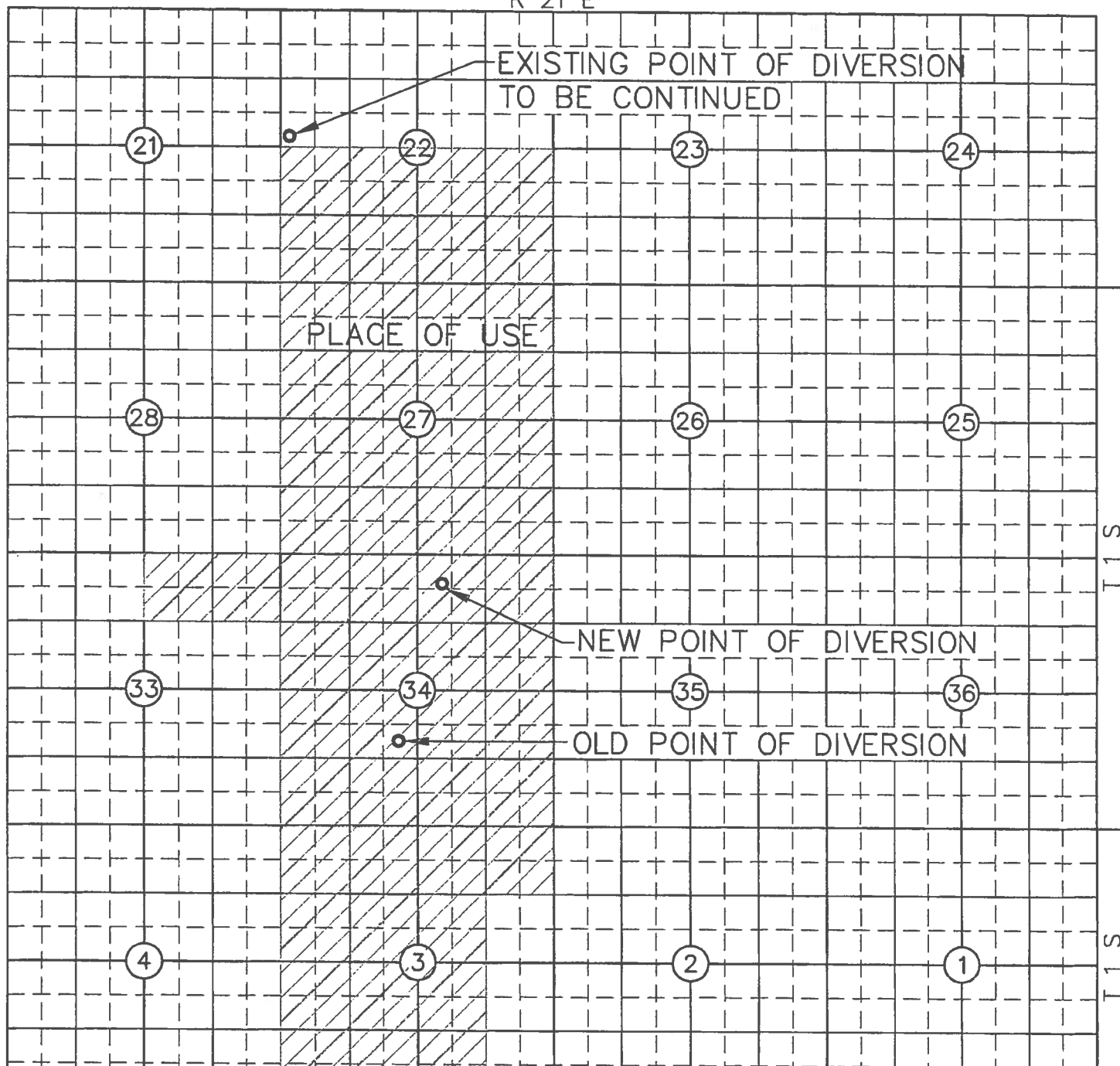
STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

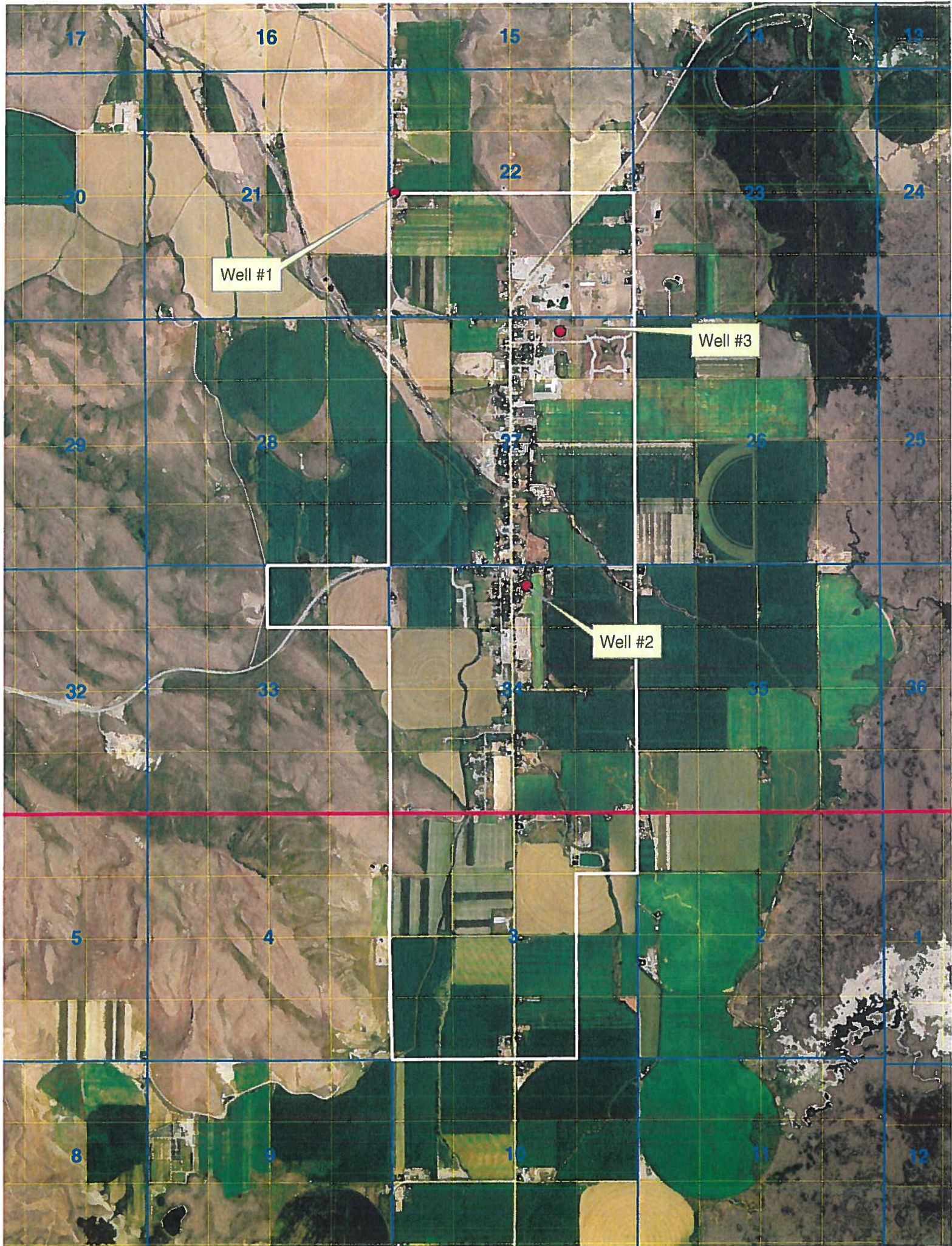
RECEIVED APPLICATION FOR TRANSFER OF WATER RIGHT
OCT 28 2004 PART 3

Department of Water Resources
Southern Region

- A. Draw a map or attach a USGS map indicating the new point(s) of diversion and/or the new place of use for the rights described in part 1. Clearly depict the land by section, township and range number.

R 21 E





Wells # 1 & 2

7766 (L) 0.71

20384 (P) 0.70

21355 (P) 1.37

2.78

meas #1 = 0.75

meas #2 = 1.95

capacity 2.70 cfs

Well #3 (sec 27) Waterford meas = 2.05

21243 (P) 0.6

22661 (P) 1.45

2.05

(Limit to inhouse use .6 per lot for subdivision.)

Use 2 & 3 Well 1 is back up.

Total Flow
4.75

CITY OF CAREY - WELL 1

LOG NAME:A0004263

START :08-02 14:04

END :08-02 14:14

INTERVAL:00:01:00

8/2/2011 14:04
+8.594E+0 ft/s
+3.366E+2 gal/m
+TOTAL 0000000 gal
NORMAL

8/2/2011 14:10
+8.562E+0 ft/s
+3.353E+2 gal/m
+TOTAL 0002019 gal
NORMAL

8/2/2011 14:05
+8.617E+0 ft/s
+3.375E+2 gal/m
+TOTAL 0000332 gal
NORMAL

8/2/2011 14:11
+8.546E+0 ft/s
+3.347E+2 gal/m
+TOTAL 0002355 gal
NORMAL

8/2/2011 14:06
+8.645E+0 ft/s
+3.386E+2 gal/m
+TOTAL 0000670 gal
NORMAL

8/2/2011 14:12
+8.550E+0 ft/s
+3.348E+2 gal/m
+TOTAL 0002692 gal
NORMAL

8/2/2011 14:07
+8.540E+0 ft/s
+3.344E+2 gal/m
+TOTAL 0001008 gal
NORMAL

8/2/2011 14:13
+8.553E+0 ft/s
+3.350E+2 gal/m
+TOTAL 0003028 gal
NORMAL

8/2/2011 14:08
+8.631E+0 ft/s
+3.380E+2 gal/m
+TOTAL 0001345 gal
NORMAL

8/2/2011 14:14
+8.621E+0 ft/s
+3.376E+2 gal/m
+TOTAL 0003365 gal
NORMAL

8/2/2011 14:09
+8.607E+0 ft/s
+3.371E+2 gal/m
+TOTAL 0001683 gal
NORMAL

336.50 GPM
0.75 CFS

Log Name D0034183.LOG
Log Title Well # 2
Start Time 10/5/2011 14:57
End Time 10/5/2011 15:08
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Item #	Label	Symbol	UnitType	Channel
0	Velocity	ft/s	578	0
1	Volume	gal/m	846	0
2	(+)Total	gal	1160	0

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
10/5/2011 14:57:28	10.10031188	872.4048565	4868.945922	0
10/5/2011 14:58:28	10.20265529	881.2446711	5730.763168	0
10/5/2011 14:59:29	10.13399782	875.314447	6640.116792	0
10/5/2011 15:00:28	10.13549159	875.4434705	7495.151485	0
10/5/2011 15:01:28	10.11890795	874.0110746	8347.463024	0
10/5/2011 15:02:28	10.1174854	873.888203	9252.37429	0
10/5/2011 15:03:28	10.08580279	871.1516474	10103.39528	0
10/5/2011 15:04:29	10.07980475	870.6335721	11005.52111	0
10/5/2011 15:05:28	10.10647769	872.9374222	11856.84835	0
10/5/2011 15:06:28	10.07452856	870.1778466	12719.18289	0
10/5/2011 15:07:29	10.09450428	871.9032307	13608.69366	0

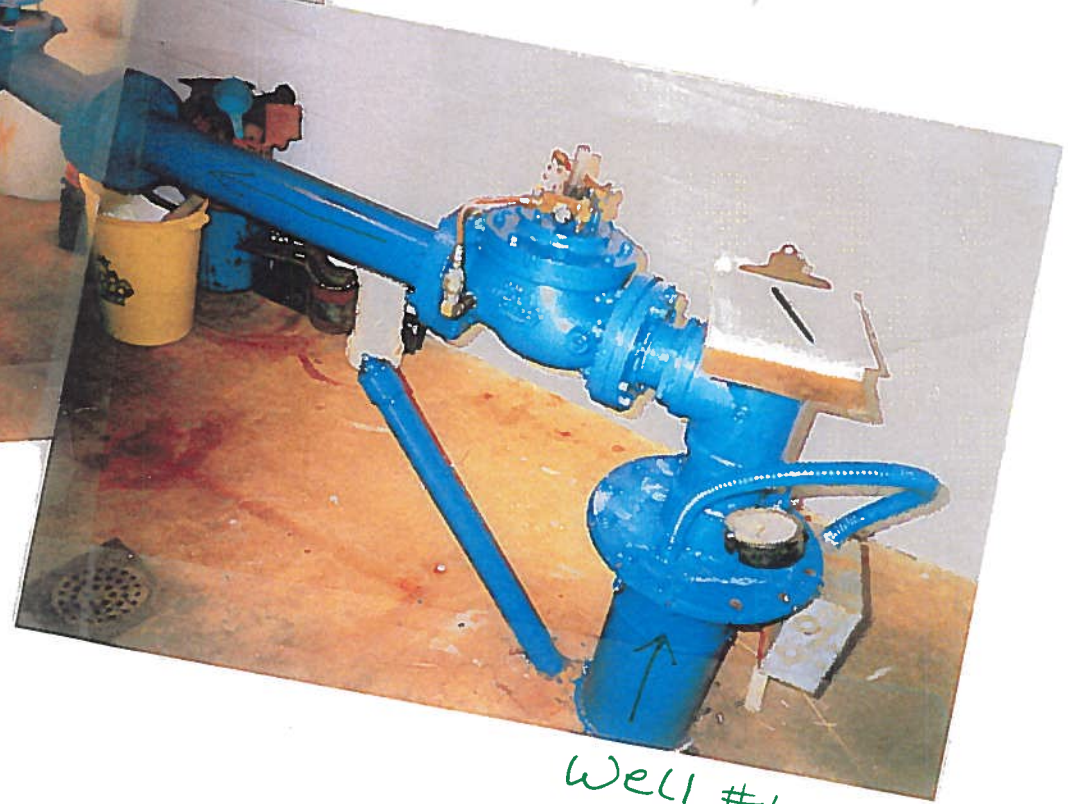
873.9747742

Panametrics= 874 gpm
 McCrometer= 883.4 gpm
 1.10%



out to Storage

Meter

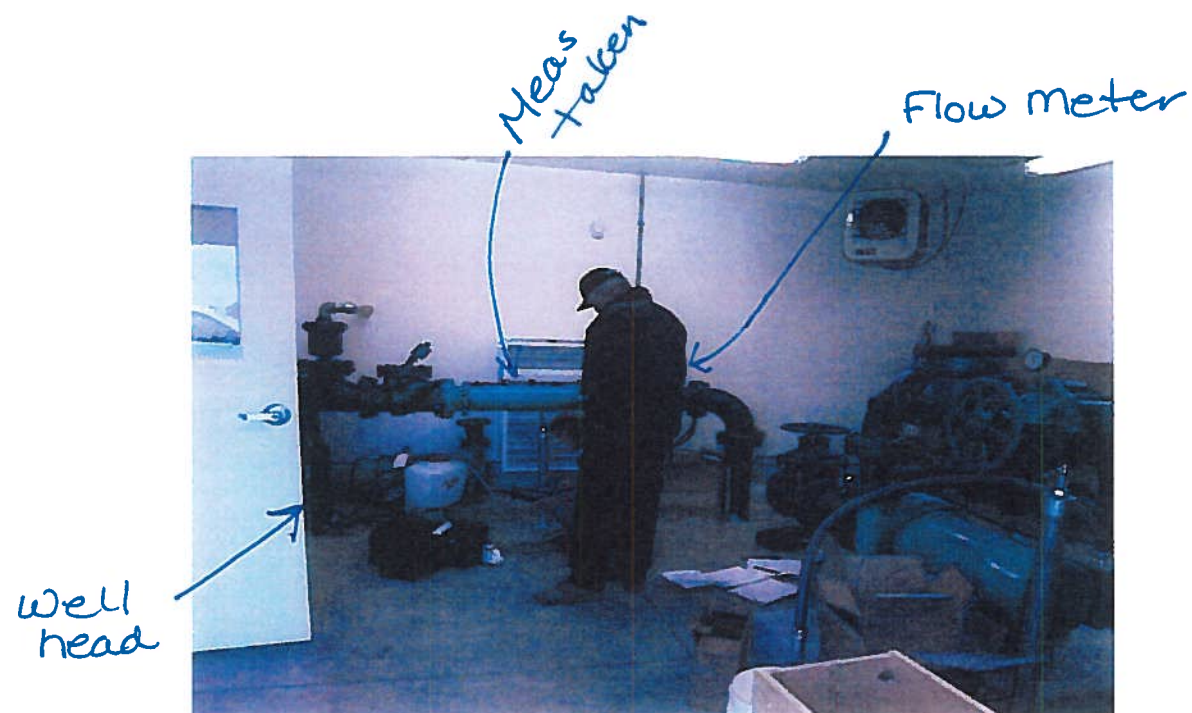


Well #1

city of cory

Well #2

Site tag: D0034183



out
to
storage
tank



RECEIVED

WELL DRILLER'S REPORT

July 1978

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
Southern District Office

[illegible]

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT