

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-8091

Exam Date: 9/2/2014

1. Current Owner: CITY OF KIMBERLY
PO BOX Z
KIMBERLY ID 83341
(208)423-4151
2. Accompanied by: Kevan Hafer
Phone No: 731-4191
Address: PO Box Z
Kimberly, Id
Relationship to Permit Holder: Public Works Supervisor

3. **SOURCE** **TRIBUTARY**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Municipal rights: 47-4459, 47-4460, 47-7306 and 47-7649
Municipal permits: 47-8091, 47-8377 and, 47-17435
2. Other water rights with the same points of diversion: same as place of use

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

GROUND WATER	SW1/4SE1/4NW1/4	Sec. 28, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	SE1/4SE1/4	Sec. 20, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	SW1/4SW1/4	Sec. 21, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	SW1/4SW1/4	Sec. 21, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	NE1/4SW1/4NW1/4	Sec. 28, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	NW1/4SW1/4NW1/4	Sec. 28, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		
GROUND WATER	SW1/4NE1/4NE1/4	Sec. 29, Twp 10S, Rge 18E, B.M.
TWIN FALLS County		

Method of Determination: Took GPS points at the time of field exam.

2. PLACE OF USE: MUNICIPAL –Large Place of UseMethod of Determination: **ESRI and aerial photography.**

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>	
E0006732	#1		100 HP		Layne	26293	8 inch
A0007867	#2		75 HP		Fairbanks	PL 9787	6 inch
E0006734	#3	GE	75 HP	AGJ113480	Layne	63861L	6 inch
N/A	#4	no motor			no pump		
E0006735	#5	GE	100 HP	2-7222BAMGG	Layne	T 81345	8 inch
E0006975	#6	GE	100 HP	R212-23400337			8 inch
D0051037	#7	GE	150 HP	R1020086740			12 inch

*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>
Flowmeter	Polysonic	Panametrics	PT878	277960		March 2014

2. Measurements:

9/5/14 Well #1 Ten-minute average = 722.6 GPM or 1.61 cfs
 9/2/14 Well #2 Ten-minute average = 441.2 GPM or 0.98 cfs
 9/17/14 Well #3 Ten-minute average = 498.9 GPM or 1.11 cfs

Well #4 Currently off-line.

9/5/14 Well #5 Ten-minute average = 818.5 GPM or 1.82 cfs
 9/5/14 Well #6 Ten-minute average = 891.5 GPM or 1.99 cfs
 9/5/14 Well #7 Ten-minute average = 1688.8 GPM or 3.76 cfs

Maximum capacity of all wells = 11.27 cfs

E. FLOW CALCULATIONS

Measured Method: N/A

☒ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: **N/A**
2. Volume Calculations for Other Uses: **No volume for municipal use.**

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 47-8019 was filed on April 4, 1988 for 0.4 cfs for municipal use associated with the city's Well # 2 not covered by decreed water right 47-7306. The permit was approved on August 3, 1988 and proof was filed on August 16, 1988.

This is the first of three permits for the City of Kimberly. Originally permits 47-8091, 47-8377 and 47-17435 were specific to wells 3, 6 & 7. After discussion with the city's Public Works Supervisor, it was discovered that the city's wells were physically tied together in a common system. Accordingly amendments were filed to add all of the city's seven wells, which includes Well # 4 that is currently off-line, to the new licenses. The city also indicated they will file a transfer to combine all decreed water rights (47-4459, 47-4460, 47-7306 and 47-7649) within the entire municipal system. The signed licensing amendments, the transfer application and the correct fees were submitted on February 11, 2015 allowing final processing to begin.

Measurements for the six production wells were completed in September of 2014. The measured maximum capacity of all wells was calculated at 11.27 cfs. The decreed water rights for the city currently total 5.56 cfs. This leaves 5.71 cfs of water available to potentially be licensed. (11.27 cfs – 5.56 cfs = 5.71 cfs) Permit 47-8019 authorizes the diversion of up to 0.4 cfs. This leaves an excess capacity of 5.31 cfs to be licensed under permits 47-8377 and, 47-17435. (5.71 cfs – 0.4 cfs = 5.31 cfs) **Recommend permitted flow rate of 0.4 cfs for municipal use with no volume for new license.**

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

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

H. RECOMMENDATIONS**1. Recommended Amounts**

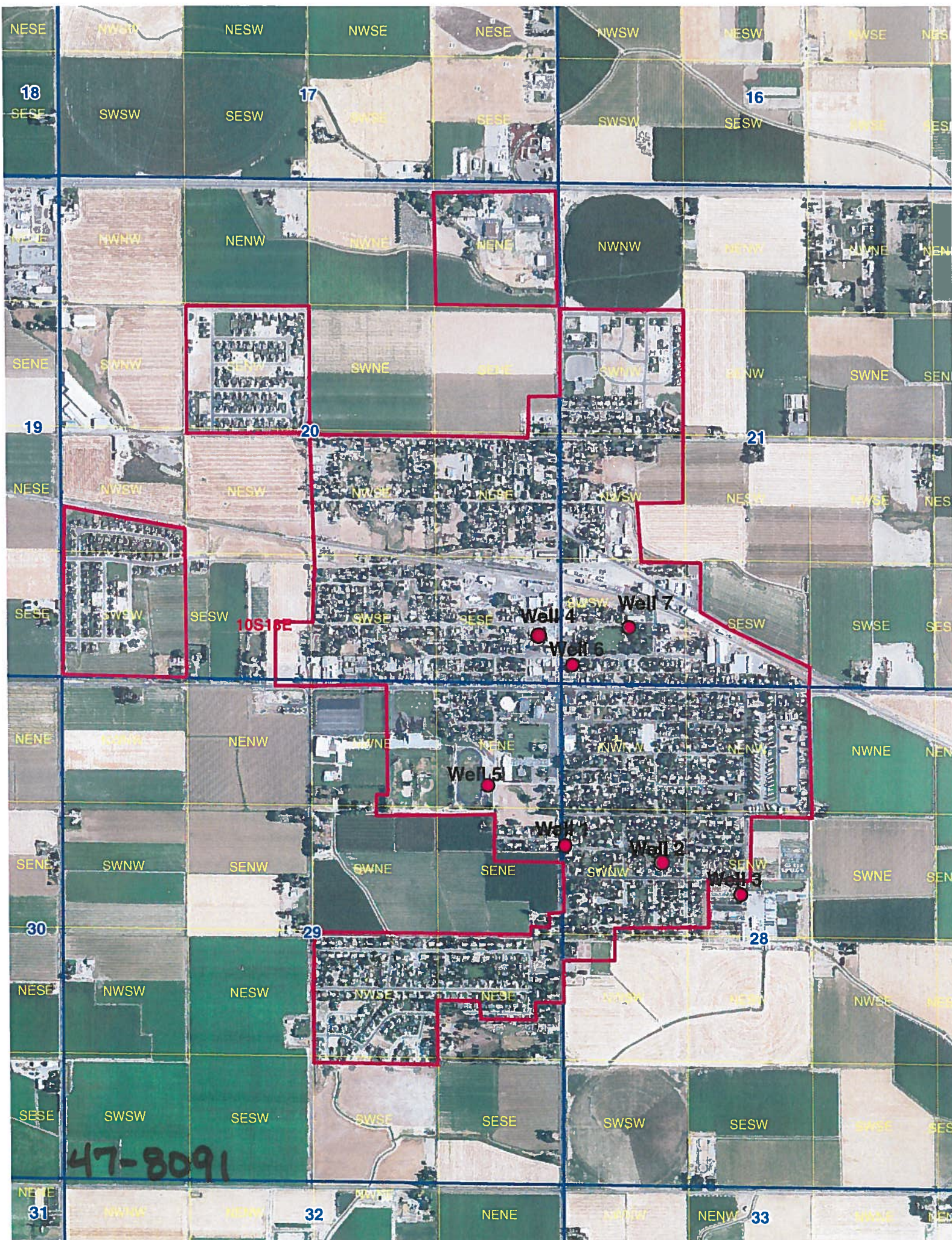
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.400 CFS	N/A
<u>Totals:</u>		0.400 CFS	

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 Sara Reeder
 Date 2/17/15
 Reviewer [Signature]
 Date 4/20/15



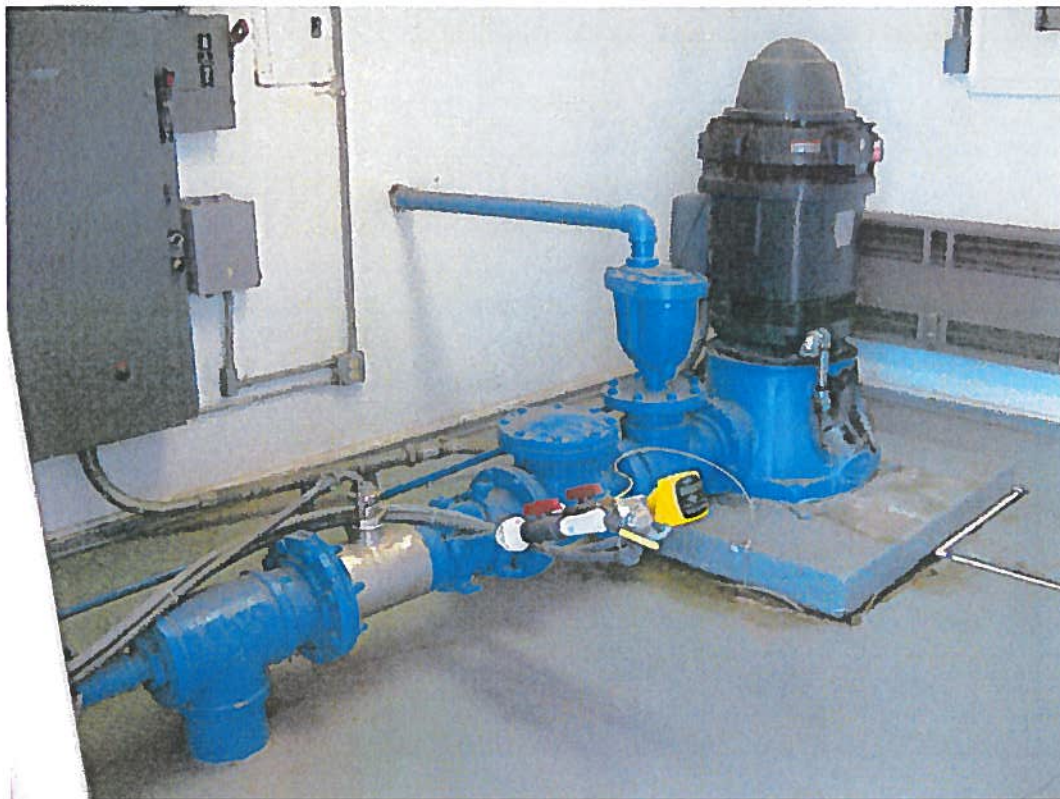
E0006732 Well # 1



A0007867 Well # 2



E0006734 Well # 3



E0006735 Well # 5



E0006975 Well # 6



D0051037 Well # 7



47-8091.
City of Kimberley

Pump House.



Main Line - to Storage

Flow Meter



Motor + Main Line

License Well By Well

Well Name	Basin	Sequence	Process	Basis	Priority Date	Diversion Rate	Measured Rate	Measured Rate	Difference	Licensed Rate
							GPM	CFS	CFS	CFS
Well 1	47	4459	Water Right	Decreed	3/18/1959	2.000	722.6	1.61		
Well 2	47	4460	Water Right	Decreed	2/1/1951	1.020	441.2	0.98		
Well 2	47	8320	Water Permit	lapsed	8/3/1992	0.280				N/A
Well 3	47	7306	Water Right	Decreed	8/14/1969	0.620	498.9	1.11	0.49	
Well 3	47	8091	Water Permit		4/4/1988	0.400				~~0.4~~
Well 5	47	7649	Water Right	Decreed	6/18/1980	1.920	818.5	1.82		
Well 6	47	8377	Water Permit		10/31/1994	3.400	891.5	1.99		~~1.99~~
Well 7	47	17435	Water Permit		9/15/2006	3.350	1,688.8	3.76		~~3.35~~
Hillsboro	47	17482	Water Permit	lapsed	2/26/2008	1.110				

Combined Total	11.27	Licensed Total	~~5.74~~
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License By Priority

Well Name	Basin	Sequence	Process	Basis	Priority Date	Diversion Rate	Measured Rate	Measured Rate	Licensed Rate	New Totals
							GPM	CFS	CFS	CFS
Well 1	47	4459	Water Right	Decreed	3/18/1959	2.000	722.6	1.61	2.000	2.000
Well 2	47	4460	Water Right	Decreed	2/1/1951	1.020	441.2	0.98	1.020	1.020
Well 3	47	7306	Water Right	Decreed	8/14/1969	0.620	498.9	1.11	0.620	0.620
Well 5	47	7649	Water Right	Decreed	6/18/1980	1.920	818.5	1.82	1.920	1.920

Current Totals	5.560
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Well 3	47	8091	Water Permit		4/4/1988	0.400	498.9	1.11	0.4	0.4
Well 6	47	8377	Water Permit		10/31/1994	3.400	891.5	1.99	3.4	3.4
Well 7	47	17435	Water Permit		9/15/2006	3.350	1,688.8	3.76	1.91	1.91

New License Totals	5.71	
Combined Totals	11.27	11.270

Well 2	47	8320	Water Permit	lapsed	8/3/1992	0.280
Hillsboro	47	17482	Water Permit	lapsed	2/26/2008	1.110

Log Name City of Kimberly.LOG
Log Title Well 1.LOG good
Start Time 9/5/2014 14:22
End Time 9/6/2014 14:33
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 (g	Error #
9/5/2014 14:22:05	4.541563543	726.9144145	77300.2	0
9/5/2014 14:23:05	4.499910762	720.247546	78011.25	0
9/5/2014 14:24:05	4.466378307	714.8804022	78720.45	0
9/5/2014 14:25:05	4.501405431	720.4867799	79478.07	0
9/5/2014 14:26:07	4.297348858	687.8258555	80181.72	0
9/5/2014 14:27:07	4.541306869	726.8733317	80936.46	0
9/5/2014 14:28:05	4.527795165	724.7106729	81642.89	0
9/5/2014 14:29:05	4.410381064	705.9175851	82317.26	0
9/5/2014 14:30:07	4.543041699	727.1510054	83110.06	0
9/5/2014 14:31:06	4.564971694	730.6610806	83815.31	0
9/5/2014 14:32:05	4.519216628	723.3376079	84526.16	0

722.5961172

PT878=722.6 gpm ✖

DI= 700.4 gpm

-3.10%

Log Name Kimberly.LOG
Log Title Well #2.LOG
Start Time 9/2/2014 11:14
End Time 9/2/2014 23:25
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Item #	Label	Symbol	UnitType	Channel	Comport
0	Velocity	ft/s		578	0 0
1	Volume	gal/m		846	0 0
2	Volume	gal/m		846	0 0

Date/Time	Velocity (ft/s)	Volume (gal/m)	Volume (gal/m)	Error #
9/2/2014 11:14:06	4.516113596	433.7892117	433.7892117	0
9/2/2014 11:15:06	4.553273689	437.3585743	437.3585743	0
9/2/2014 11:16:07	4.486224277	430.9182333	430.9182333	0
9/2/2014 11:17:06	4.532330933	435.3469461	435.3469461	0
9/2/2014 11:18:06	4.57916708	439.8457292	439.8457292	0
9/2/2014 11:19:06	4.473189699	429.6662145	429.6662145	0
9/2/2014 11:20:07	4.457098876	428.1206322	428.1206322	0
9/2/2014 11:21:06	4.547300502	436.7848279	436.7848279	0
9/2/2014 11:22:06	4.513292827	433.5182664	433.5182664	0
9/2/2014 11:23:07	4.539083619	435.9955663	435.9955663	0
9/2/2014 11:24:08	4.593424049	441.2151632	441.2151632	0
9/2/2014 11:25:06	4.440285124	426.5056098	426.5056098	0

PT878= 441.2 gpm ✖
 Data Ind.= 389.3 gpm

- 11.8 %

Log Name City of Kimberly
Log Title Well # 3
Start Time 9/17/2014 10:40
End Time 9/17/2014 11:01
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

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

Date/Time	Velocity (ft/s)	(+)Total (gal)	Volume (gal/m)	Error #
9/17/2014 10:40:03	6.015411955	4451.458811	500.5101613	0
9/17/2014 10:41:04	6.07621397	4950.79921	505.5691708	0
9/17/2014 10:42:04	6.026641564	5460.229917	501.4445169	0
9/17/2014 10:43:05	6.07985513	5941.139796	505.8721323	0
9/17/2014 10:44:03	6.084646921	6454.148752	506.2708314	0
9/17/2014 10:45:03	5.99987416	6933.936795	499.2173447	0
9/17/2014 10:46:03	5.953147658	7466.12827	495.3294831	0
9/17/2014 10:47:03	6.011849821	7953.723382	500.2137753	0
9/17/2014 10:48:05	6.11779495	8454.143441	509.0289011	0
9/17/2014 10:49:03	6.050207624	8961.614152	503.4053223	0
9/17/2014 10:50:03	5.935485608	9468.016193	493.8599188	0
9/17/2014 10:51:03	5.977459265	9966.233436	497.3523216	0
9/17/2014 10:52:04	6.021412475	10475.55197	501.0094324	0
9/17/2014 10:53:05	5.993029759	10952.76306	498.6478589	0
9/17/2014 10:54:06	5.96464765	11480.55639	496.2863358	0
9/17/2014 10:55:03	5.981852574	11963.95493	497.7178653	0
9/17/2014 10:56:04	5.958716834	12462.42244	495.7928644	0
9/17/2014 10:57:04	6.026274505	12969.52267	501.4139759	0
9/17/2014 10:58:03	6.000274361	13446.81103	499.2506433	0
9/17/2014 10:59:03	5.971918685	13952.02549	496.8913196	0
9/17/2014 11:00:03	5.998677591	14427.31653	499.1177847	0

498.792886

498.8 gpm *

Log Name Kimberly.LOG
Log Title Well 5.LOG
Start Time 9/5/2014 11:32
End Time 9/5/2014 23:43
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 #
9/5/2014 11:32:02	4.71490042	822.5714277	11376.13952	0
9/5/2014 11:33:02	4.781202879	834.1386939	12195.08054	0
9/5/2014 11:34:03	4.717113211	822.9574759	13032.34726	0
9/5/2014 11:35:02	4.699552647	819.893823	13819.30028	0
9/5/2014 11:36:02	4.700665196	820.0879207	14654.96511	0
9/5/2014 11:37:03	4.760831861	830.5847234	15493.6735	0
9/5/2014 11:38:03	4.608960432	804.088915	16313.38138	0
9/5/2014 11:39:02	4.685979943	817.5259007	17111.10458	0
9/5/2014 11:40:04	4.629154935	807.6120904	17930.17419	0
9/5/2014 11:41:03	4.697162824	819.4768895	18765.24497	0
9/5/2014 11:42:03	4.715120895	822.6098922	19547.33611	0
9/5/2014 11:43:02	4.725239051	824.3751269	20383.74262	0
9/5/2014 11:44:02	4.766294602	831.5377646	21218.53381	0
9/5/2014 11:45:03	4.63018854	807.7924152	22038.69239	0
9/5/2014 11:46:03	4.674578609	815.5367999	22872.22478	0
9/5/2014 11:47:02	4.667202341	814.2499207	23653.28824	0

818.4765809

PT878= 818.5 gpm *

DT= 800 gpm

-2.30%

Log Name	City of Kimberly
Log Title	Well 6
Start Time	9/5/2014 12:05
End Time	9/6/2014 12:16
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
9/5/2014 12:05:04	5.276151234	900.535	31758.4	0
9/5/2014 12:06:04	5.242216927	894.7431	32643.99	0
9/5/2014 12:07:04	5.241513858	894.6231	33539.37	0
9/5/2014 12:08:04	5.17983998	884.0965	34429.05	0
9/5/2014 12:09:05	5.215637693	890.2065	35303.74	0
9/5/2014 12:10:05	5.228548442	892.4101	36228.95	0
9/5/2014 12:11:05	5.165100185	881.5808	37122.21	0
9/5/2014 12:12:04	5.207708364	888.8531	37959.83	0
9/5/2014 12:13:06	5.196743725	886.9817	38887.01	0
9/5/2014 12:14:04	5.221250256	891.1645	39780.43	0
9/5/2014 12:15:04	5.177956636	883.7751	40673.44	0

891.5035

PT878=891.5 gpm *

DT= 900.0 gpm

Log Name City of Kimberly
Log Title Well 7
Start Time 9/5/2014 13:01
End Time 9/6/2014 13:12
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 #
9/5/2014 13:01:03	6.593198074	1739.006547	52020.25977	0
9/5/2014 13:02:05	6.422453334	1693.971312	53774.57916	0
9/5/2014 13:03:04	6.426911892	1695.147291	55372.66765	0
9/5/2014 13:04:04	6.337101037	1671.45899	57159.7254	0
9/5/2014 13:05:03	6.326888587	1668.765378	58831.0582	0
9/5/2014 13:06:03	6.252834825	1649.23313	60528.423	0
9/5/2014 13:07:03	6.452714695	1701.952978	62216.71504	0
9/5/2014 13:08:04	6.342606148	1672.911005	63880.11202	0
9/5/2014 13:09:05	6.327386009	1668.896576	65668.28764	0
9/5/2014 13:10:03	6.496812702	1713.584166	67326.28141	0
9/5/2014 13:11:03	6.455723536	1702.746583	68908.4079	0

1688.814813
 ABB= 1700.0 gpm
 PT878= 1688.8 gpm

0.60%

Log Name City of Kimberly
Log Title Well 7
Start Time 9/5/2014 13:01
End Time 9/6/2014 13:12
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 #
9/5/2014 13:01:03	6.593198074	1739.006547	52020.25977	0
9/5/2014 13:02:05	6.422453334	1693.971312	53774.57916	0
9/5/2014 13:03:04	6.426911892	1695.147291	55372.66765	0
9/5/2014 13:04:04	6.337101037	1671.45899	57159.7254	0
9/5/2014 13:05:03	6.326888587	1668.765378	58831.0582	0
9/5/2014 13:06:03	6.252834825	1649.23313	60528.423	0
9/5/2014 13:07:03	6.452714695	1701.952978	62216.71504	0
9/5/2014 13:08:04	6.342606148	1672.911005	63880.11202	0
9/5/2014 13:09:05	6.327386009	1668.896576	65668.28764	0
9/5/2014 13:10:03	6.496812702	1713.584166	67326.28141	0
9/5/2014 13:11:03	6.455723536	1702.746583	68908.4079	0

1688.814813

ABB= 1700.0 gpm

PT878= 1688.8 gpm

0.60%