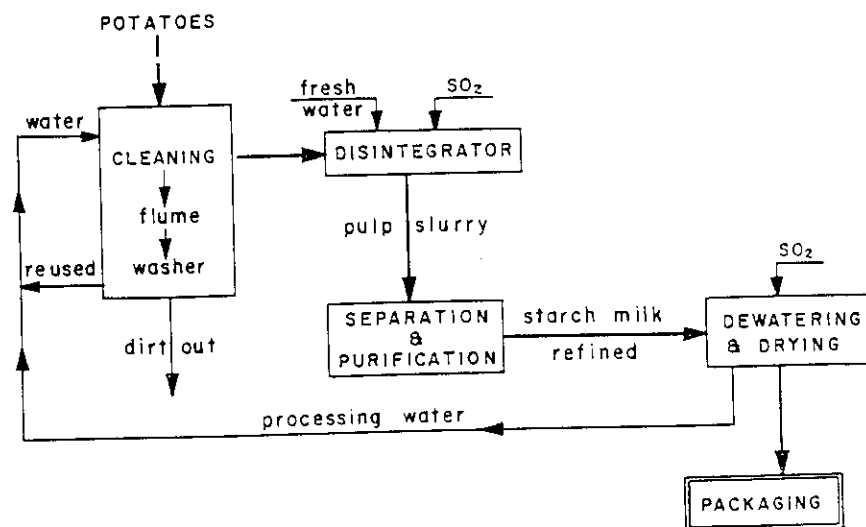


A. FACTORY PRODUCTION OF POTATO STARCH



B. PURIFICATION & SEPARATION

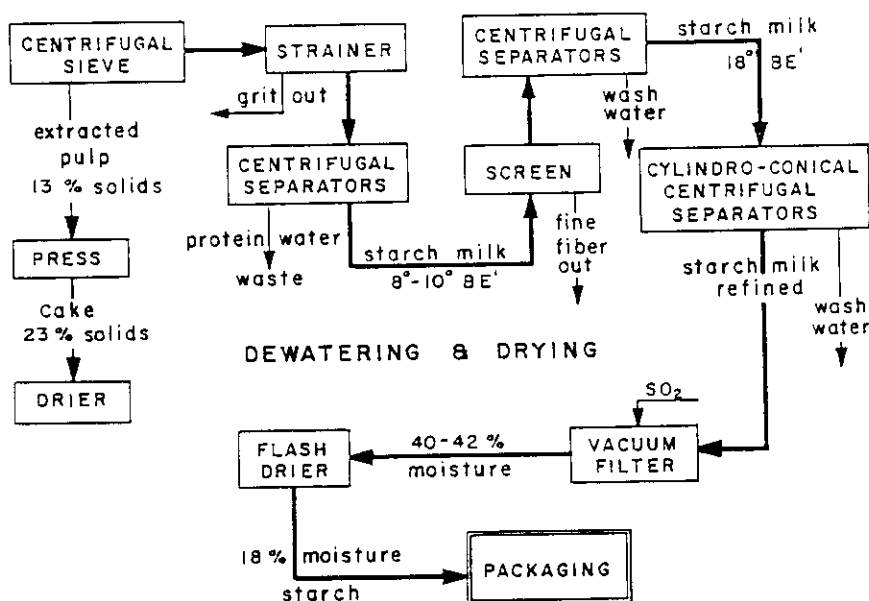


FIG. 91. (A) PRINCIPAL STEPS IN POTATO STARCH PROCESSING. (B) MODERN POTATO STARCH PROCESSING

Detail showing extraction of waste pulp by centrifugal rotating sieves, purification of starch milk, dewatering and drying of starch.

From Potato Processing Talbot & Smith 1959

This describes the process used at the plant in the earlier years.

Source: claimant

Date: 8/22/03



PENFORD
PRODUCTS CO.

March 1, 2002

Mr. Ernest Carlsen
Water Rights Supervisor
Department of Water Resources
900 North Skyline
Suite A
Idaho Falls, Idaho 83402

Re: Evidence of Priority and request for change
Claim Number: A25-04162

Dear Mr. Carlsen:

This concerns the claim to water rights filed by Mr. Robert Kroupa, August 8, 1989 for Penford Products Co 1088 West Sunnyside Road, Idaho Falls, Idaho Claim A25-04162. This claim was filed for only .08cfs based on some calculations on the well at that time. I took over as Team Leader of this facility in September 1999 and I became aware of this claim later that year. There was not a flow meter on the well at that time and I became concerned that this number was incorrect based on wastewater discharged to the city. I had an ABB /F&P mag meter installed so that we could accurately track what comes out of the well. After months of tracking the volume, it was evident that this was an incorrect number. I contacted Dick Larsen Public relations in Boise and found out about the Snake river adjudication, he informed me that I would need data back to 1963 to establish our claim to water out of the well.

Penick & Ford, LTD bought the Idaho Potato Starch Company May 1964. Prior to that date, the Idaho Potato Starch Company manufactured regular starch, specialty starch, instant starch, and potato flakes and potato flour. I have researched the equipment and historical production numbers to determine what kinds of volumes of water were being pumped out of the well. The company was one of the leading producers in the United States and one of the largest in the state of Idaho. Whole potatoes were removed from the storage bins by means of water flume that carried them to conveyor washing off stones and dirt. The conveyor lifted the potatoes to the washer to remove remaining dirt and then carried it to a hammermill, which reduced the potatoes to a slurry form. The slurry was diluted with water and went through a series of screens and then to a centrifuge. This was carried by more water to a refining screen and the pulp was diluted with water and went through a second grinding process to further release more starch. It then was washed with water sprays, centrifuged again, screened and then went to a flaker or dryer to produce the desired products. I have reviewed this process for accuracy with Walter Gay who worked at the facility at that time. This was a very water intensive process. At that time water was discharged directly to the river so there were no historical sewer records. I have production numbers back to that time and a report by CH2MHILL who did a study of water usage for the city before the secondary pretreatment was built. This showed water usage at over 500,000 gallon a day.

	1963	1964
Regular Starch	9,013,750	8,200,600
Special Starch	11,879,600	12,531,770
Instant Starch	3,607,700	2,076,275
Flake	1,984,032	3,657,936
Flour	455,600	484,900
TOTAL	26,940,682	26,951,481

Source: Claimant

Date: 8/22/03

March 1, 2002

Penford Products Co. request that the claim to water right be amended to 500,000 gallons a day or .78cfs.

Please let us know if this is acceptable. If you have any questions, please contact me at 208-522-3570.

Sincerely,

A handwritten signature in cursive script, reading "Kim Anselmo". The signature is fluid and extends to the right with a long horizontal stroke.

Kim Anselmo
Team Leader
Idaho Falls, Idaho
Penford Products Co.

Source: Claimant
Date: 8/22/03



April 10, 2003

Ms. Kim Anselmo
Team Leader
Penford Products Co.
1088 W. Sunnyside Road
Idaho Falls, Idaho 83402

RE: Water Volume for Idaho Potato Starch Company

Ms. Kim Anselmo:

Per our conversations, this concerns the claim to water rights filed by Penford Products Co., 1088 West Sunnyside Road, Idaho Falls, Idaho. This claim was filed based on the well that was drilled in 1952 and on production and usage while the plant was called the Idaho Potato Starch Company. I worked for the Idaho Potato Starch Company and Penick & Ford, LTD who bought the Idaho Starch Company in May 1964. I worked for the company from 1959 to 1972 as a Chemist and Production Control Manager and was responsible for waste treatment and can verify the water used at that time at over 500,000 gallons a day as stated in the CH2Mhill report.

Whole potatoes were removed from the storage bins by means of flume that carried them to conveyor washing off stones and dirt. The conveyor lifted the potatoes to the washer to remove remaining dirt and then carried it to a hammermill, which reduced the potatoes to a slurry form. The slurry was diluted with water and went through a series of screens and then to a centrifuge. This was carried by more water to a refining screen and the pulp was diluted with water and went through a second grinding process to further release more starch. It then was washed with water sprays, centrifuged again, screened and then went to a flaker or dryer to produce the desired products. The company produced regular starch, specialty starch, instant starch, flake, flour and later ground potatoes as part of a program with the agricultural department. This was a very water intensive process. At that time, water was discharged directly to the river so there were no historical sewer records. At full production the water usage was over 800,000 gallons a day.

Sincerely,

Walter A. Gay
Walter A. Gay, VP Processing Operations
Nonpareil Corporation

Source: Claimant
Date: 8/22/03

CH2MHILL

FAX

Boise
Tel 208-345-5310
Fax 208-345-5315

To: Kim (Plant Manager)

From: Rick Bishop

Company: Penford Products

Date: February 6, 2002

Fax No.: 208-524-5671

Total Pages: 8

Voice No.: 208-522-3570

Message:

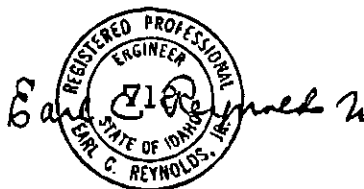
Kim -

I have attached selected pages from a report prepared by Cornell, Howland, Hayes & Merryfield, titled, *Pre-design Report on Wastewater Treatment Expansions for Idaho Falls, Idaho, August 1970*.

Perhaps of interest to Penford Products, is the information contained in Table II-I, Summary of Industrial Wastewater Characteristics, 1970 Sampling Program. In this table the present wastewater characteristics of the Idaho Potato Starch Company were tabulated based on a sampling program conducted during the spring and summer of 1970. The flow from the Idaho Potato Starch Company was listed as 0.56 million gallons per day.

Source: ClaimantDate: 8/22/03

PREDESIGN REPORT
ON
WASTEWATER TREATMENT EXPANSIONS
FOR
IDAHO FALLS, IDAHO



CORNELL, HOWLAND, HAYES & MERRYFIELD
Engineers-Planners-Economists
Boise, Idaho
August 1970

Project No. B6035.0

Copy No. 13

Source: Claimant

Date: 8/22/03

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Source: ClaimantDate: 8/22/03

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Source: Claimant
Date: 8/22/03

SECTION I INTRODUCTION

NEED FOR STUDY

In August 1969, Cornell, Howland, Hayes & Merryfield submitted a report to the City of Idaho Falls outlining alternative plans and cost estimates for secondary wastewater treatment facilities to satisfy treatment requirements for industrial and municipal wastewater.

After reviewing the report and evaluating the existing limited government grant program, the City decided to wait for pending state aid for financing wastewater treatment facilities and to authorize a predesign study to provide a more detailed analysis of present industrial wastewater loads upon which to: (1) project future wastewater loads and (2) develop firm design criteria. This study would provide an opportunity to evaluate future wastewater loads in light of recent developments in potato processing, and it would allow additional sampling and testing at designated industries to confirm previous investigations. A refinement of the general treatment system design, incorporating the effects of current state and federal grants would provide a more accurate cost estimate upon which to base a bond election for financing the treatment plant expansion.

AUTHORIZATION

On April 27, 1970, Cornell, Howland, Hayes & Merryfield was authorized by the City of Idaho Falls to conduct a predesign study of the proposed wastewater treatment plant expansion.

SCOPE

The major objectives of this study have been to:

Source: Claimant
Date: 8/22/03

1. Determine the present wastewater characteristics from municipal and industrial sources, and estimate future loads which must be accommodated in the next 20 years.
2. Develop final design criteria and a preliminary design for treatment plant expansion to provide secondary treatment.
3. Estimate capital costs for the recommended treatment method.
4. Suggest a method for establishing an equitable system of service charges.
5. Suggest a schedule for implementing the project.

REPORT ORGANIZATION

Figures and tables are numbered consecutively in each chapter and appear immediately following the first reference to them in the text. A complete list of tables and figures appears in the Table of Contents.

ACKNOWLEDGMENTS

Appreciation is extended to Messrs. Mont Clark, Bob Stitt, Wendell Gillespie, Don Lloyd, Joe Laird and other personnel of the City of Idaho Falls for their assistance and cooperation in providing information required for the completion of this report. We also wish to acknowledge the cooperation of the various Idaho Falls Industries in providing assistance in determining the characteristics of their wastewater flows.

Source: Claimant
Date: 8/22/03

SECTION II TREATMENT PLANT EXPANSION

FINAL DESIGN CRITERIA

Knowledge of the characteristics of the wastewater to be treated is a prerequisite for planning and design of wastewater treatment facilities. The principal wastewater characteristics affecting design are: volume of flow, suspended solids, and BOD (biochemical oxygen demand). When significant amounts of industrial wastewater are present, as at Idaho Falls, data on industrial wastewater volumes, characteristics, and duration are especially important.

In this study, wastewater contributors with average wastewater discharges greater than 500 lbs BOD or suspended solids per day, or average flows greater than 0.25 mgd, have been classified as industrial customers. Businesses with lower quantity or strength wastewater discharges have been classified as commercial. A sampling and testing program during the spring and summer of 1970 has provided complete information on wastewater loads and flows, as well as processing schedules, of the industrial wastewater contributors. Some of these data vary considerably from information derived from the 1969 testing program, and Taylor Meat Company is no longer considered an industrial contributor. The present wastewater characteristics of the six present industrial contributors are summarized in Table II-1.

The total wastewater discharge from these six industries, based on BOD, is equivalent to the wastewater from a population of 325,000 persons. Significant reductions in industrial wastewater discharges and treatment plant loadings can be realized through certain in-plant process changes and pretreatment of wastewater flows by these industries, as described below:

1. Clarification pretreatment combined with a holding basin for flow equalization at the starch plants would provide reduced overall strength of discharged wastes, as well as reduce flows to the municipal treatment plant.

Source: Clairmont

Date: 8/22/03

TABLE 11-1
SUMMARY OF INDUSTRIAL WASTEWATER CHARACTERISTICS
1970 SAMPLING PROGRAM

<u>Industry</u>	<u>Flow (mgd)</u>	<u>BOD (lbs/day)</u>	<u>Suspended Solids (lbs/day)</u>
Rogers Brothers ⁽¹⁾	2.22	18,700	4,600
Western Farmers ⁽¹⁾	1.00	17,700	6,700
Menan Starch ⁽¹⁾	0.23	6,100	3,000
Idaho Potato Starch ⁽¹⁾	0.56	18,700	12,000
Challenge Creamery	0.40	1,100	700
Idaho Falls Animal Products	<u>0.04</u>	<u>2,800</u>	<u>1,900</u>
Total	4.45	65,100	28,900

(1) Includes wastewater from silt ponds.

2. The potato processors presently provide clarification pretreatment before discharging their wastewater, including silt water. However, further wastewater load reduction could be achieved by a conversion to the infra-red peeling process, which would reduce wastewater flow volumes, as well as BOD and solids concentrations.

If the two above mentioned changes were made, the 1970 population equivalent of the industrial wastewater load would be reduced to 170,000 persons and would reach 255,000 persons when projected to 1990, which is less than that presently being discharged from these six industries.

Western Farmers and Idaho Potato Starch have indicated they will take the above-mentioned steps in the near future. Menan Starch will install clarification pretreatment. Rogers Brothers has indicated they will make changes sufficient to keep their wastewater discharges at present levels. On this basis, Table 11-2 shows the projected 1972 and 1990 wastewater characteristics from these industries. The wastewater discharge from

Source: Claimant

Date: 8/22/03

Table V-1

SUMMARY OF WASTE CHARACTERISTICS
FROM THE MAJOR WASTE CONTRIBUTING IDAHO FALLS INDUSTRIES
1969 SAMPLING PROGRAM

<u>Industry</u>	<u>Flow mgd (1)</u>	<u>BOD lbs/day</u>	<u>Suspended Solids lbs/day</u>
Rogers Brothers ⁽²⁾	2.14	12,330	2,497
Idaho Potato Growers ⁽²⁾	0.965	8,150	3,250
Menan Starch ⁽²⁾	1.08	20,190	13,380
Idaho Potato Starch ⁽²⁾	0.58	13,190	9,780

(1) Million gallons per day

(2) Includes waste from silt ponds

The total industrial waste discharge from these four major industries, based on BOD, is equivalent to the waste from a population of 270,000 persons.

Because of the many difficulties associated with flow measurement and sampling of wastes with rapidly changing characteristics, the average data shown in Table V-1 can only be considered an indication of pollution loads. It can be expected that considerable variations will occur at any industry for any given day. As a result, it is probable that future individual test results will vary from those given in Table V-1.

The problem of large amounts of foam being produced in the treatment units at the treatment plant upon connecting the large potato processors and starch producers to the sewer system was investigated. This was done by connecting these industries to the sewer system and observing the result at the treatment plant. The units most likely to indicate foaming problems are the aerated grit chamber and the aerated section of the clarifier. No foaming problem was noticed. Therefore, it is not anticipated that any problem of excessive foam production would occur in the proposed secondary treatment plant.

PRESENT DOMESTIC AND COMMERCIAL WASTE CHARACTERISTICS

Waste Flow. Flow records from the waste treatment plant for the past year were utilized in establishing the magnitude of the present waste flow to the treatment plant. This flow includes domestic, light commercial, and industrial excluding Rogers Brothers, Idaho Potato Growers, Menan Starch, Idaho Potato Starch, L. S. Taube, Southland Produce, Idaho Falls Meat, and

Source: Clair

Date: 8/22/03

Anselmo, Kim

Controller

From: Wynne Mark
Sent: Wednesday, January 30, 2002 11:17 AM
To: Anselmo, Kim
Cc: Duthler Chuck; Rajtora Otto
Subject: Idaho Falls Production - 1963 and 1964

Kim,

I found the above (in pounds) in the financial statements of our company for the 12 months ending December 31st:

	1963	1964
Regular Starch	9,013,750	8,200,600
Special Starch	11,879,600	12,531,770
Instant Starch	3,607,700	2,076,275
Flake	1,984,032	3,657,936
Flour	455,600	484,900
TOTAL	26,940,682	26,951,481

If any questions, please inquire.
Mark

Source: *Clairmont*

Date: *8/22/03*



A division of
Penwest

1088 W. Sunnyside Rd.
Idaho Falls, ID
83402
(208) 522-3570

June 1, 1991

Mr. Ernest Carlsen
Water Rights Supervisor
Department Of Water Resources
150 Shoup Avenue, Suite 15
Idaho Falls, Idaho 83402

RE: Evidence of Priority
Notice Number: A25-04162

Dear Mr. Carlsen,

The enclosed correspondence from Bob Cushman supports the information provided by Bill Serr regarding the time frame in which the existing water well was drilled on our property. There were actually two wells drilled during this period. The first was found to be inoperable; and was the subject of litigation. The second was drilled by Guy Cushman and is the same well that is in use today.

If you need additional information in order to establish the date of priority/beneficial use, please contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert D. Kroupa".

Robert D. Kroupa
Operations Manager

Enclosure

Source: Claimant
Date: 8/22/03

Jack Cushman Drilling & Pump Co.

1405 SOUTH BROADWAY - BLACKFOOT, IDAHO 83221 - (208) 785-1588

May 15, 1991

Tenford Products Company
1088 W. Sunnyside
Idaho Falls, Idaho 83402

ATTENTION: Robert Kroupa

Dear Mr. Kroupa,

This letter is in regards to the information that you requested concerning the water well that was drilled at the above location, but under the name of Idaho Potatoe Starch Company.

To the best of our knowledge and from what records we could locate of Guy Cushman's, who is now deceased, we are putting the approximate priority date as of May-June of 1952.

We wish we could be more exact, but this is close to being thirty-nine years since the drilling was done. If we can be of further assistance please don't hesitate to call our office.

Thank you,

Bob Cushman

Bob Cushman, Vice-president
JACK CUSHMAN DRILLING, INC.

BC/mj

Source: Clairmont

Date: 8/22/03

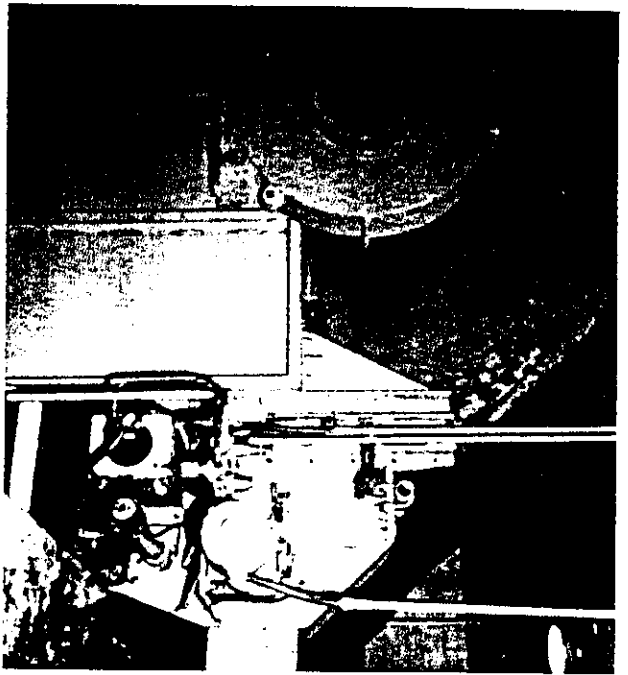


Fig. 20.17. Belt-type vacuum filter.



Fig. 20.18. Potato plant clarifier.

Table 20.6. Potato-Processing Effluent Characteristics

Type of waste	Total solids (mg/liter)	Suspended solids (mg/liter)	BOD (mg/liter)	COD (mg/liter)	pH	Settleable solids (mg/liter)	Total phosphorus (mg/liter)	Nitrogen	
								Total (mg/liter)	Ammonia (mg/liter)
Chips	—	6,000	1,750	—	5.3	270	—	—	—
Chips	3,645	800-2000	1,643	—	7.2	—	—	—	—
Total plant: steam	—	—	700-1500	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—	—
Total plant: flour	—	—	—	—	—	—	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—	—
Total plant: steam	—	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
Spray washer	14,900	2,470	1,950	2,830	11.5	—	81	60	10.6
Trimming	270	7	30	45	6.9	—	27	—	—
Cutting	850	16	77	150	7.2	—	29	—	—
Inspection	250	15	5	32	6.9	—	14	—	—
Blanch	2,283	60	1,020	1,470	4.7	—	160	20	—
Plant composite	8,100	1,310	1,150	1,750	11.1	—	80	—	—
French fries and starch plant	7,794	4,050	4,100	6,450	10.7	—	23	224	—
Steam peel	—	—	—	—	—	—	—	—	—
Caustic peel	11,550	—	4,300	—	—	—	—	—	—
Wash water	700	—	—	100-250	7.0	2.0-5.5	—	—	—
Peel waste	10,000-15,000	—	—	10,000-12,000	—	200-400	—	—	—
Trim waste	600	—	—	150-200	6.2	0.6	—	—	—
Blanch waste	1,600	—	—	600-700	5.1	2-3	—	—	—
Combined plant waste	—	—	—	—	—	—	—	—	—
Before Screening									
Washing	264	—	—	—	—	—	—	—	—
Peeling	—	—	—	—	—	—	—	—	—
Dry caustic	347	—	—	19.1	—	1.35	—	—	—
Wet caustic	719	—	—	57.2	—	14.62	—	—	—
Steam	573	—	—	26.8	—	40.41	—	—	—
Trimming	190	—	—	0.52	—	30.37	—	—	—
Slicing	—	—	—	—	—	1.35	—	—	—
Dehydrated	183	—	—	1.4	—	0.59	—	—	—
French fries	364	—	—	2.6	—	5.25	—	—	—
Blanching	—	—	—	—	—	—	—	—	—
Dehydrated	42	—	—	1.2	—	1.40	—	—	—
Frozen	250	—	—	4.2	—	10.9	—	—	—
Cooking	160	—	—	2.34	—	2.34	—	—	—
Dewatering	117	—	—	0.70	—	0.94	—	—	—
Fryer scrubber	123	—	—	—	—	—	—	—	—
Fryer belt spray	100	—	—	—	—	—	—	—	—
Refrigeration	384	—	—	—	—	—	—	—	—
Transport water	376	—	—	—	—	—	—	—	—
Cleanup	226	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
Granules	—	—	—	—	—	—	—	—	—
French fries and hash browns	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries, flakes and granules	—	—	—	—	—	—	—	—	—
French fries, flakes and granules	—	—	—	—	—	—	—	—	—
French fries, flakes and granules	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries, hash browns and flakes	—	—	—	—	—	—	—	—	—
Flakes, granules, dices	—	—	—	—	—	—	—	—	—
Flakes, granules and slices	—	—	—	—	—	—	—	—	—
Granules	—	—	—	—	—	—	—	—	—
Dehydrated products	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
French fries and dehydrated products	—	—	—	—	—	—	—	—	—
Dehydrated products	—	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—	—
Granules	—	—	—	—	—	—	—	—	—
Chips	—	—	—	59.8	—	29.2	78.4	7.4	—

(continued)

Source: Clairmont
 Date: 8/22/03

Table 20.6. (Continued)

Type of waste	After Screening					Nitrogen		
	Total solids (mg/liter)	Suspended solids (mg/liter)	BOD (mg/liter)	COD (mg/liter)	pH	Settleable solids (mg/liter)	Total phosphorus (mg/liter)	Ammonia (mg/liter)
Chips	—	3,350	1,280	—	5.7	26	—	—
Chips	—	—	—	—	—	—	—	—
Total plant: steam	—	—	—	—	—	—	—	—
peel, flake	5,173	297	701	2,142	7.1	—	26.9	—
Total plant: caustic	8,746	1,055	1,774	3,548	11.4	—	—	—
Total plant: caustic	12,930	5,248	3,555	7,148	11.4	—	—	—
Total plant: hour	7,493	4,398	3,314	8,314	6.9	—	105	—
Total plant: caustic	—	1,297	1,265	—	10.8	—	—	—
peel, flake	—	—	—	—	—	—	—	—
Total plant: steam	—	297	701	—	7.1	—	—	—
peel, flake	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—
Spray washer	—	—	—	—	—	—	—	—
Trimming	—	—	—	—	—	—	—	—
Cutting	—	—	—	—	—	—	—	—
Inspection	—	—	—	—	—	—	—	—
Blanch	—	—	—	—	—	—	—	—
Plant composite	—	—	—	—	—	—	—	—
French fries and starch plant	5,352	2,690	3,150	6,475	11.0	50	23	9.7
Steam peel	4,177	1,574	1,788	3,730	6.8	—	236	—
Caustic peel	—	—	3,525	2,760	—	—	—	—
Wash water	4,768	—	—	—	—	—	—	—
Peel waste	—	—	—	—	—	—	—	—
Trim table	—	—	—	—	—	—	—	—
Blanch waste	—	—	—	—	—	—	—	—
Combined plant waste	4,000	—	—	2,000-5,000	—	30-50	—	—

Process step or product style	Water usage (gal/ton)		Suspended solids (lb/ton)		BOD (lb/ton)		COD (lb/ton)		pH		Capacity (ton/day)	
	Washing	Peeling	Washing	Peeling	Washing	Peeling	Washing	Peeling	Washing	Peeling	Washing	Peeling
Dry caustic	—	—	—	—	—	—	—	—	—	—	—	—
Wet caustic	—	—	—	—	—	—	—	—	—	—	—	—
Steam	—	—	—	—	—	—	—	—	—	—	—	—
Trimming	—	—	—	—	—	—	—	—	—	—	—	—
Blanching	—	—	—	—	—	—	—	—	—	—	—	—
Dehydrated	—	—	—	—	—	—	—	—	—	—	—	—
Frozen	—	—	—	—	—	—	—	—	—	—	—	—
Blanching	—	—	—	—	—	—	—	—	—	—	—	—
Dehydrated	—	—	—	—	—	—	—	—	—	—	—	—
Frozen	—	—	—	—	—	—	—	—	—	—	—	—
Cooling	—	—	—	—	—	—	—	—	—	—	—	—
Cooking	—	—	—	—	—	—	—	—	—	—	—	—
Dewatering	—	—	—	—	—	—	—	—	—	—	—	—
Fryer scrubber	—	—	—	—	—	—	—	—	—	—	—	—
Fryer belt spray	—	—	—	—	—	—	—	—	—	—	—	—
Dehydration	—	—	—	—	—	—	—	—	—	—	—	—
Transport water	—	—	—	—	—	—	—	—	—	—	—	—
Chips	—	—	—	—	—	—	—	—	—	—	—	—
French fries	2830	13.1	50.8	27.8	—	—	—	—	—	—	—	—
Granules	2060	23.5	73.9	30.2	—	—	—	—	—	—	—	—
French fries and hash browns	3490	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	3000	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	2810	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	2800	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries, flakes and granules	3070	22.4	63.9	27.5	—	—	—	—	—	—	—	—
French fries, flakes and granules	3120	25.2	64.5	27.5	—	—	—	—	—	—	—	—
French fries	2820	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	2820	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	3220	47.7	116.8	47.7	—	—	—	—	—	—	—	—
French fries	3220	47.7	116.8	47.7	—	—	—	—	—	—	—	—
French fries	3000	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries	3000	17.8	58.5	27.8	—	—	—	—	—	—	—	—
French fries, hash browns and flakes	2100	24.3	73.9	30.2	—	—	—	—	—	—	—	—
Flakes, granules, dices	1660	19.6	63.9	27.5	—	—	—	—	—	—	—	—
Granules and slices	1660	19.6	63.9	27.5	—	—	—	—	—	—	—	—
Granules	1660	19.6	63.9	27.5	—	—	—	—	—	—	—	—
Dehydrated products	2830	10.3	8.9	15.5	—	—	—	—	—	—	—	—
French fries	980	10.3	8.9	15.5	—	—	—	—	—	—	—	—
French fries and dehydrated products	1530	23.6	76	22.0	—	—	—	—	—	—	—	—
Dehydrated products	1790	7.6	15.5	22.0	—	—	—	—	—	—	—	—
French fries	2310	25.0	30.4	30.4	—	—	—	—	—	—	—	—
Granules	2880	—	—	—	—	—	—	—	—	—	—	—
Chips	—	—	—	—	—	—	—	—	—	—	—	—

Table 20.6. (Continued)

Type of waste	After Primary Treatment					Nitrogen		
	Total solids (mg/liter)	Suspended solids (mg/liter)	BOD (mg/liter)	COD (mg/liter)	pH	Settleable solids (mg/liter)	Total phosphorus (mg/liter)	Ammonia (mg/liter)
Chips	—	225	600	—	5.8	0.05	—	—
Chips	300	—	613	—	7.0	—	—	—
Total plant: steam	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—
Total plant: hour	—	—	—	—	—	—	—	—
Total plant: caustic	3,540	732	1,623	3,408	6.6	—	—	—
Total plant: caustic	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—
Total plant: steam	—	—	—	—	—	—	—	—
peel, flake	—	—	—	—	—	—	—	—
French fries	—	—	—	—	—	—	—	—
Spray washer	—	—	—	—	—	—	—	—
Trimming	—	—	—	—	—	—	—	—
Cutting	—	—	—	—	—	—	—	—
Inspection	—	—	—	—	—	—	—	—
Blanch	—	—	—	—	—	—	—	—
Plant composite	—	—	—	—	—	—	—	—
French fries and starch plant	3,966	1,120	1,770	2,630	9.3	2	19.5	182
Steam peel	1,050	118	538	905	5.8	—	—	9.7
Caustic peel	217	—	1,313	940	—	—	—	—
Wash water	—	—	—	—	—	—	—	—
Peel waste	—	—	—	—	—	—	—	—
Trim table	—	—	—	—	—	—	—	—
Blanch waste	—	—	—	—	—	—	—	—
Combined plant waste	—	—	—	—	—	—	—	—

Process step or product style	Water usage (gal/ton)	Suspended solids (lb/ton)	BOD (lb/ton)	COD (lb/ton)	pH	Capacity (ton/day)
Peeling	—	—	—	—	—	—
Dry caustic	—	—	—	—	—	—
Wet caustic	—	—	—	—	—	—
Steam	—	—	—	—	—	—
Trimming	—	—	—	—	—	—
Blanching	—	—	—	—	—	—
Dehydrated	—	—	—	—	—	—
Frozen	—	—	—	—	—	—
Blanching	—	—	—	—	—	—
Dehydrated	—	—	—	—	—	—
Frozen	—	—	—	—	—	—
Cooling	—	—	—	—	—	—
Cooking	—	—	—	—	—	—
Dewatering	—	—	—	—	—	—
Fryer scrubber	—	—	—	—	—	—
Fryer belt spray	—	—	—	—	—	—
Dehydration	—	—	—	—	—	—
Transport water	—	—	—	—	—	—
Chips	2830	50.8	—	—	—	—
French fries	13.1	27.8	—	—	—	—
Granules	23.5	30.2	—	—	—	—
French fries and hash browns	17.8	27.8	—	—	—	—
French fries	—	—	—	—	—	—
French fries	—	—	—	—	—	—
French fries	—	—	—	—	—	—
French fries	—	—	—	—	—	—
French fries, flakes and granules	22.4	27.5	—	—	—	—
French fries, flakes and granules	25.2	27.5	—	—	—	—
French fries	—	—	—	—	—	—
French fries	—	—	—	—	—	—
French fries	47.7	47.7	—	—	—	—
French fries	—	—	—	—	—	—
French fries, hash browns and flakes	24.3	30.2	—	—	—	—
Flakes, granules, dices	—	—	—	—	—	—
Granules and slices	—	—	—	—	—	—
Granules	—	—	—	—	—	—
Dehydrated products	10.3	15.5	—	—	—	—
French fries	—	—	—	—	—	—
French fries and dehydrated products	23.6	22.0	—	—	—	—
Dehydrated products	7.6	2	—	—	—	—
French fries	—	—	—	—	—	—
Granules	—	—	—	—	—	—
Flakes	—	—	—	—	—	—

08/1999
KH

WELL
HOUSE
READING USEAGE

Gallons

1729200	
1807200	78000
1882200	75000
1986200	104000
2090200	104000
2184100	93900
2327200	143100
2467200	140000
2527200	60000
2602200	75000
2693900	91700
2795300	101400
2921900	126600
3055900	134000
3158399	102499
3218330	59931
3297500	79170
3387600	90100
3472800	85200
3602999	130199
3705100	102101
3834500	129400
3969900	135400
4045400	75500
4155300	109900
4255530	100230
4356740	101210
4457500	100760
4545000	87500
4643000	98000
4741099	98099

3011899

Monthly Sum -
gallons

Source: Claimant

Date: 8/22/03



**WELL
HOUSE
READING USEAGE**

4741099	
4767300	26201
4856300	89000
4977200	120900
5077200	100000
5147720	70520
5277200	129480
5356300	79100
5426700	70400
5521500	94800
5611500	90000
5701470	89970
5791100	89630
5896200	105100
5992000	95800
6072600	80600
6173200	100600
6275499	102299
6385499	110000
6484299	98800
6524299	40000
6609000	84701
6696399	87399
6805099	108700
6981500	176401
7069000	87500
7079000	10000
7089000	10000
7090000	1000
7102200	12200
7212200	110000
7296900	84700

2529600

Source: claimant

Date: 8/22/03

12/1/03

**WELL
HOUSE
READING USEAGE**

7296900	
7396900	100000
7538699	141799
7661700	123001
7761700	100000
7861700	100000
7964200	102500
8096420	132220
8185000	88580
8295000	110000
8387000	92000
8420000	33000
8490000	70000
8588300	98300
8689700	101400
8796000	106300
8939900	143900
9054199	114299
9152000	97801
9200000	48000
9295000	95000
9395000	100000
9495300	100300
9595300	100000
9695300	100000
9745000	49700
9792000	47000
9820000	28000
9902100	82100
10025000	122900
10112000	87000
10011200	

2715100

Source: claimant
Date: 8/22/03

Jan 2000
KPK

PENFORD PRODUCTS COMPANY
IDAHO FALLS, IDAHO

WELL
HOUSE
READING USEAGE

	9902100	
*****	10150000	247900
	10250000	100000
	10350000	100000
	10469300	119300
	10625000	155700
	10701600	76600
	10810000	108400
	10990000	180000
	11000000	10000
	11110100	110100
	11200100	90000
	11300100	100000
	11405000	104900
	11505000	100000
	11550000	45000
	11600000	50000
	11700000	100000
	11800000	100000
	11900000	100000
	12000000	100000
	12090000	90000
	12190000	100000
	12290000	100000
	12390000	100000
	12490000	100000
	12590000	100000
	12690000	100000
	12713100	23100
	12813100	100000
	12878599	65499
	12885999	7400

2735999

Source: claimant
Date: 8/22/03

Feb 2000

WELL	
HOUSE	
READING	USEAGE
12885999	
12981900	95901
13080000	98100
13160010	80010
13240000	79990
13350000	110000
13440000	90000
13529100	89100
13658400	129300
13758000	99600
13860000	102000
13950000	90000
13999900	49900
14075000	75100
14165000	90000
14250000	85000
14380000	130000
14400000	20000
14505000	105000
14601400	96400
14690000	88600
14740200	50200
14839700	99500
14939600	99900
15065199	125599
15155900	90701
15256700	100800
15366200	109500
15429800	63600
	0
	0

2447900

Source: claimant
Date: 8/22/03

March 2000

**WELL
HOUSE
READING USEAGE**

15429800	
15470600	40800
15473600	3000
15486000	12400
15590000	104000
15769000	179000
15988699	219699
16088900	100201
16189900	101000
16289000	99100
16390000	101000
16491700	101700
16580900	89200
16681700	100800
16791900	110200
16881000	89100
16991000	110000
17081000	90000
17182000	101000
17282000	100000
17308100	26100
17374700	66600
17474700	100000
17573000	98300
17657000	84000
17700000	43000
17750000	50000
17831299	81299
17905000	73701
17990000	85000
18100000	110000
18150000	50000

2876400

Source: *claimant*
Date: *8/22/03*

April 2000

**WELL
HOUSE
READING USEAGE**

8150000	
8270000	120000
8373600	103600
8486000	112400
8590000	104000
8669000	79000
8788699	119699
8888900	100201
8989900	101000
9009000	19100
9100000	91000
9191700	91700
9340900	149200
9481700	140800
9651100	169400
9781000	129900
9799000	18000
9819000	20000
9982000	163000
10099100	117100
10187000	87900
10284700	97700
10454700	170000
10573000	118300
10607000	34000
10700000	93000
10850000	150000
10971299	121299
11105000	133701
11200000	95000
11300000	100000

3150000

Source: Claimant
Date: 8/22/03

May 2000

**WELL
HOUSE
READING USEAGE**

11300000	
11434500	134500
11519000	84500
11604500	85500
11725000	120500
11835000	110000
11919500	84500
11999915	80415
12084415	84500
12193915	109500
12278415	84500
12372915	94500
12437415	64500
12487415	50000
12621915	134500
12766415	144500
12920915	154500
13005415	84500
13140665	135250
13240665	100000
13325165	84500
13392000	66835
13495600	103600
13515600	20000
13575000	59400
13659500	84500
13700950	41450
13750000	49050
13834500	84500
13929000	94500
14013500	84500
14108200	94700

2808200

Source: claimant

Date: 8/22/03

June 2000

Date	WELL HOUSE READING	USEAGE
May 31		
Jun. 1	3528100	3528100
Jun. 2	3648100	120000
Jun. 3	3748100	100000
Jun. 4	3826100	78000
Jun. 5	3911100	85000
Jun. 6	4042999	131899
Jun. 7	4142999	100000
Jun. 8	4258399	115400
Jun. 9	4439100	180701
Jun. 10	4539100	100000
Jun. 11	4639100	100000
Jun. 12	4739100	100000
Jun. 13	4789100	50000
Jun. 14	4879100	90000
Jun. 15	4999400	120300
Jun. 16	5106199	106799
Jun. 17	5206910	100711
Jun. 18	5299200	92290
Jun. 19	5328100	28900
Jun. 20	5448100	120000
Jun. 21	5551000	102900
Jun. 22	5665100	114100
Jun. 23	5785000	119900
Jun. 24	5835000	50000
Jun. 25	5905000	70000
Jun. 26	6042800	137800
Jun. 27	6274200	231400
Jun. 28	6374200	100000
Jun. 29	6555199	180999
Jun. 30	6652199	97000
		3124099

Source: Claimant

Date: 8/22/03

July 2000

Date	WELL HOUSE READING	USEAGE
Jun. 30	6652199	
Jul. 1	6765200	113001
Jul. 2	6855000	89800
Jul. 3	6879099	24099
Jul. 4	6979099	100000
Jul. 5	7032499	53400
Jul. 6	7132400	99901
Jul. 7	7258299	125899
Jul. 8	7300000	41701
Jul. 9	7358099	58099
Jul. 10	7462100	104001
Jul. 11	7563000	100900
Jul. 12	7668500	105500
Jul. 13	7759500	91000
Jul. 14	7925000	165500
Jul. 15	8050000	125000
Jul. 16	8164700	114700
Jul. 17	8263700	99000
Jul. 18	8372400	108700
Jul. 19	8472000	99600
Jul. 20	8571500	99500
Jul. 21	8700000	128500
Jul. 22	8742500	42500
Jul. 23	8789810	47310
Jul. 24	8898100	108290
Jul. 25	8952399	54299
Jul. 26	9105399	153000
Jul. 27	9250400	145001
Jul. 28	9410600	160200
Jul. 29	9455199	44599
Jul. 30	9556100	100901
Jul. 31	9613300	57200
		2961101

Source: claimant
Date: 8/22/03

Aug 2000
KAT

Date	WELL HOUSE READING	USEAGE
July.31	9613300	
Aug. 1	9743300	130000
Aug. 2	9852800	109500
Aug. 3	9984700	131900
Aug. 4	10109400	124700
Aug. 5	10222500	113100
Aug. 6	10248500	26000
Aug. 7	10305900	57400
Aug. 8	10345500	39600
Aug. 9	10371300	25800
Aug. 10	10393600	22300
Aug. 11	10514700	121100
Aug. 12	10604400	89700
Aug. 13	10638300	33900
Aug. 14	10687500	49200
Aug. 15	10791900	104400
Aug. 16	10919400	127500
Aug. 17	11045700	126300
Aug. 18	11180500	134800
Aug. 19	11268150	87650
Aug. 20	11355800	87650
Aug. 21	11462400	106600
Aug. 22	11662400	200000
Aug. 23	11766300	103900
Aug. 24	11883200	116900
Aug. 25	12010700	127500
Aug. 26	12093800	83100
Aug. 27	12235800	142000
Aug. 28	12348900	113100
Aug. 29	12465400	116500
Aug. 30	12565400	100000
Aug. 31	12655500	90100
		3042200

Source: Claimant

Date: 8/22/03

Sept 2000

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB 15HR TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Aug. 31		57.3						1265500	
Sep. 1	6.9	57.3		24.1	33.74	37.0	0.866	1375570	110070
Sep. 2	6.5	57.3			0		0	1422050	46480
Sep. 3	6.2	57.3			0		0	1482900	60850
Sep. 4	6.9	57.3			0		0	1512500	29600
Sep. 5	6.2	57.3			0	23.6	0.552	1553500	41000
Sep. 6	6.8	57.3		16.4	22.96	17.9	0.419	1562900	9400
Sep. 7	6.6	57.3		29.0	40.6	28.2	0.66	1725300	162400
Sep. 8	5.2	57.3		36.0	50.4	36.8	0.861	1833670	108370
Sep. 9	6.2				0		0	1927560	93890
Sep. 10	6.0				0		0	1993560	66000
Sep. 11	6.5	57.3		25.7	35.98	17.7	0.414	2011570	18010
Sep. 12	6.3	57.3		34.0	47.6	38.4	0.899	2093750	82180
Sep. 13	6.2	57.3		38.1	53.34	47.4	1.109	2193570	99820
Sep. 14	6.7	57.3		34.9	48.86	47.3	1.107	2305700	112130
Sep. 15	6.3	57.3		40.2	56.28	44.4	1.039	2457290	151590
Sep. 16	5.8				0		0	2567300	110010
Sep. 17	7.2				0		0	2595000	27700
Sep. 18	7.9	57.3		1.6	2.24	0.8	0.019	2628900	33900
Sep. 19	6.5	57.3		38.7	54.18	33.7	0.789	2738000	109100
Sep. 20	6.3	57.3		47.8	66.92	39.7	0.929	2857000	119000
Sep. 21	6.3	57.3		41.4	57.96	29.7	0.695	2963258	106258
Sep. 22	7.0	57.3		39.3	55.02	41.5	0.971	3114896	151638
Sep. 23	6.6				0		0	3258999	144103
Sep. 24	7.2				0		0	3299500	40501
Sep. 25	7.0	57.3		28.4	39.76	27.6	0.646	3340050	40550
Sep. 26	7.1	57.3		40.7	56.98	40.9	0.957	3450500	110450
Sep. 27	6.8	57.3		29.3	41.02	26.2	0.613	3567004	116504
Sep. 28	6.8	57.3		49.6	69.44	42.8	1.002	3654999	87995
Sep. 29	7.5	57.3		40.3	56.42	53.5	1.252	3745666	90667
Sep. 30	6.0				0		0	3867250	121584
					0		0		
									2601750
	pH								
	6.6								
	7.9								
	5.2								

Source: Chaiwait
Date: 8/22/03

Oct 2000
KJ

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Sep. 31		57.3						3867250	
Oct. 1	7.3				0		0	3887950	20700
Oct. 2	7.2	57.3		6.0	84	28.5	0.667	3932150	44200
Oct. 3	7.1	57.3		6.4	89.6	30.0	0.702	4074250	142100
Oct. 4	6.6	59.4		8.4	117.6	40.2	0.941	4212550	138300
Oct. 5	7.5	59.4		7.4	103.6	31.4	0.735	4326650	114100
Oct. 6	6.5	59.4	N.probe	6.4	89.6	29.5	0.69	4435650	109000
Oct. 7	7.0				0		0	4556150	120500
Oct. 8	6.8				0		0	4661850	105700
Oct. 9	6.7	59.4		6.0	84	26.8	0.627	4713450	51600
Oct. 10	6.9	59.4		7.0	98	26.1	0.611	4802450	89000
Oct. 11	6.9	59.4		6.0	84	20.4	0.477	4866750	64300
Oct. 12	7.3	59.4		7.4	103.6	22.1	0.517	4927350	60600
Oct. 13	7.2	59.4		8.6	120.4	24.3	0.569	4990350	63000
Oct. 14	6.2				0		0	5077350	87000
Oct. 15	5.8				0		0	5155350	78000
Oct. 16	6.3	59.4		7.4	103.6	22.8	0.534	5186750	31400
Oct. 17	6.4	59.4		7.9	110.6	25.8	0.604	5288350	101600
Oct. 18	6.7	59.4		6.4	89.6	25.4	0.594	5405550	117200
Oct. 19	8.1	59.4		7.0	98	21.9	0.512	5515450	109900
Oct. 20	6.6	59.4		8.1	113.4	35.5	0.831	5618950	103500
Oct. 21	6.4	59.4			0		0	5702650	83700
Oct. 22	6.1				0		0	5722550	19900
Oct. 23	6.6	59.4		8.0	112	29.2	0.683	5738950	16400
Oct. 24	6.2	59.4		7.5	105	28.0	0.655	5852550	113600
Oct. 25	6.3	59.4		8.9	124.6	37.8	0.885	5958050	105500
Oct. 26	6.4	59.4		9.8	137.2	34.7	0.812	6097650	139600
Oct. 27	6.7	59.4		8.6	120.4	30.1	0.704	6218850	121200
Oct. 28	6.4	59.4			0		0	6333550	114700
Oct. 29	6.6	59.4			0		0	6409250	75700
Oct. 30	6.7	59.4		7.1	99.4	30.5	0.714	6427050	17800
Oct. 31	6.3	59.4		8.3	116.2	33.3	0.779	6569000	141950
									2701750
	pH								
	6.7								
	8.1								
	5.8								
								Source: <u>C/Ainant</u>	
								Date: <u>8/22/03</u>	

Nov 2000
K.A.

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Oct. 31		59.4						6569000	
Nov. 1	6.2	59.4		13.1	183.4	41.3	0.966	6721000	152000
Nov. 2	6.2	59.4		6.0	84	30.1	0.704	6840000	119000
Nov. 3	6.5	59.4		6.2	86.8	36.0	0.842	6967000	127000
Nov. 4	6.2				0		0	7077900	110900
Nov. 5	6.7				0		0	7178900	101000
Nov. 6	5.9	59.4		8.1	113.4	51.3	1.2	7268100	89200
Nov. 7	6.8	59.4			0		0	7356200	88100
Nov. 8	6.0	59.4			0		0	7428000	71800
Nov. 9	6.7	59.4			0		0	7494400	66400
Nov. 10	6.4	59.4			0		0	7610600	116200
Nov. 11	7.2				0		0	7754100	143500
Nov. 12	6.6				0		0	7817500	63400
Nov. 13	6.8	59.4			0		0	7898800	81300
Nov. 14	6.6	59.4			0		0	7953200	54400
Nov. 15	7.2	59.4			0		0	8048300	95100
Nov. 16	7.5	59.4			0		0	8136700	88400
Nov. 17	6.9	59.4			0		0	8228100	91400
Nov. 18	6.7	59.4			0		0	8350000	121900
Nov. 19	6.4	59.4			0		0	8440600	90600
Nov. 20	6.9	59.4			0		0	8529500	88900
Nov. 21	6.3	59.4			0		0	8657900	128400
Nov. 22	6.6	59.4			0		0	8839600	181700
Nov. 23	6.6	59.4			0		0	8951100	111500
Nov. 24	6.7	59.4			0		0	9053600	102500
Nov. 25	6.2	59.4			0		0	9155100	101500
Nov. 26	6.9	59.4			0		0	9272100	117000
Nov. 27	7.8	59.4	Ncomp		0		0	9347200	75100
Nov. 28	6.8	59.4	Ncomp		0		0	9517600	170400
Nov. 29	6.5	59.4	Ncomp		0		0	9698000	180400
Nov. 30	7.0	59.4	Ncomp		0		0	9776350	78350
	pH								3207350
	6.7								
	7.8								
	5.9								
								Source: <u>Claimant</u>	
								Date: <u>8/23/03</u>	

Dec 2000
K4

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Nov. 30		59.4						9776350	
Dec. 1	6.3	59.4	Ncomp		0		0	9952750	176400
Dec. 2	6.5	59.4			0		0	10102650	149900
Dec. 3	7.1	59.4			0		0	10174600	71950
Dec. 4	7.5	59.4	Ncomp		0		0	10251800	77200
Dec. 5	7.5	59.4			0		0	10380000	128200
Dec. 6	6.8	59.4			0		0	10516100	136100
Dec. 7	6.8	59.4			0		0	10589500	73400
Dec. 8	7.2	59.4			0		0	10721600	132100
Dec. 9	6.1	59.4			0		0	10879300	157700
Dec. 10	7.0	59.4			0		0	10983000	103700
Dec. 11	7.3	59.4			0		0	11058900	75900
Dec. 12	6.8	59.4			0		0	11182300	123400
Dec. 13	7.2	59.4			0		0	11366300	184000
Dec. 14	6.1	59.4			0		0	11561700	195400
Dec. 15	6.5	59.4			0		0	11758300	196600
Dec. 16	6.8	59.4			0		0	11924200	165900
Dec. 17	7.2	59.4			0		0	12081600	157400
Dec. 18	6.1	59.4			0		0	12162900	81300
Dec. 19	6.8	59.4			0		0	12268500	105600
Dec. 20	6.9	59.4			0		0	12435100	166600
Dec. 21	6.5	59.4			0		0	12588000	152900
Dec. 22	6.0	59.4			0		0	12757800	169800
Dec. 23	6.3	59.4			0		0	12912400	154600
Dec. 24	6.5	59.4			0		0	13000400	88000
Dec. 25	7.6	59.4			0		0	13107100	106700
Dec. 26	7.7	59.4			0		0	13161200	54100
Dec. 27	7.7	59.4			0		0	13229900	68700
Dec. 28	8.0	59.4			0		0	13305700	75800
Dec. 29	6.9	59.4			0		0	13504900	199200
Dec. 30	6.4	59.4			0		0	13606800	101900
Dec. 31	6.9	59.4			0		0	13671800	65000
	pH								3895450
	6.9								
	8.0								
	6.0								

Source: Clairmont

Date: 8/22/03

Jan 2001 K/H

Date	WELL HOUSE READING	USEAGE
Dec. 31	3671800	
Jan. 1	3769700	97900
Jan. 2	3828900	59200
Jan. 3	3931800	102900
Jan. 4	4015200	83400
Jan. 5	4106700	91500
Jan. 6	4216600	109900
Jan. 7	4289300	72700
Jan. 8	4363900	74600
Jan. 9	4483500	119600
Jan. 10	4602800	119300
Jan. 11	4768300	165500
Jan. 12	4965500	197200
Jan. 13	5064700	99200
Jan. 14	5126700	62000
Jan. 15	5196000	69300
Jan. 16	5228900	32900
Jan. 17	5358600	129700
Jan. 18	5428000	69400
Jan. 19	5587800	159800
Jan. 20	5678000	90200
Jan. 21	5781100	103100
Jan. 22	5910900	129800
Jan. 23	5989100	78200
Jan. 24	6126500	137400
Jan. 25	6209400	82900
Jan. 26	6356100	146700
Jan. 27	6497600	141500
Jan. 28	6591300	93700
Jan. 29	6663300	72000
Jan. 30	6815200	151900
Jan. 31	6951300	136100
		3279500

Source: claimant

Date: 8/22/03

Limits

Source: claimant
Date: 8/22/03

Mar 2001

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Feb. 28								9526099	
Mar. 1	7.1	58.3			0		0	9556290	30191
Mar. 2	8.0	58.3			0		0	9679690	123400
Mar. 3	6.1	58.3			0		0	9807690	128000
Mar. 4	7.1	58.3			0		0	9848790	74100
Mar. 5	7.4	58.3	G P		0		0	9872090	53300
Mar. 6	6.1	58.3	C N		0		0	9944991	72901
Mar. 7	6.6	58.3	C N	13.75 L	#####		0	10152000	207009
Mar. 8	6.6	58.3	C N	8.75 L	#####		0	10214900	62900
Mar. 9	7.5	58.3	C S P	6.00 L	#####		0	10305700	90800
Mar. 10	8.4	58.3	C N	5.00 L	#####		0	10396900	91200
Mar. 11	7.1	58.3	C N	4.00 L	#####		0	10455900	59000
Mar. 12	7.7	58.3	C N	6.00 L	#####		0	10474000	68100
Mar. 13	7.0	58.3	C N	15.00 L	#####		0	10575400	101400
Mar. 14	6.2	58.3	C N	10.00 L	#####		0	10717900	142500
Mar. 15	7.4	58.3	C N	10.00 L	#####		0	10863200	145300
Mar. 16	9.0	58.3	C N	7.00 L	#####		0	10997600	134400
Mar. 17	6.2	58.3	C N	6.00 L	#####		0	11094000	96400
Mar. 18	7.3	58.3	C N	6.00 L	#####		0	11105000	90000
Mar. 19	7.5	58.3	C N	1700 mL	#####		0	11185400	80400
Mar. 20	6.7	58.3	C N	9.00 L	#####		0	11318000	132600
Mar. 21	8.4	58.3	C N	11.00 L	#####		0	11438400	120400
Mar. 22	8.0	58.3	C N	8.00 L	#####		0	11559400	121000
Mar. 23	7.5	58.3	C N	12.00 L	#####		0	11700200	140800
Mar. 24	6.3	58.3	C N	6.00 L	#####		0	11725000	24800
Mar. 25	7.1	58.3	C N	6.00 L	#####		0	11805500	80500
Mar. 26	7.3	58.3	C N	3250 MI	#####		0	11866100	60600
Mar. 27	6.6	58.3	C N	14.75 L	#####		0	12025700	159600
Mar. 28	6.8	58.3	C N	14.00 L	#####		0	12201200	175500
Mar. 29	6.6	58.3	C N	5.50 L	#####		0	12279500	78300
Mar. 30	7.4	58.3	C N	12.00 L	#####		0	12419099	139599
Mar. 31	6.5	58.3	C N	4.00 L	#####		0	12550299	131200
									3216200
	pH								
	7.1								
	9.0								
	6.1								
								Source: <i>Clairmont</i>	
								Date: <i>8/22/03</i>	

April 2001
KHA

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Mar. 31								2550299	
Apr. 1	7.1	58.3	C N	4.00 L	#####		0	2611899	61600
Apr. 2	7.3	58.3	C N	5.50 L	#####		0	2687999	76100
Apr. 3	7.9	58.3	C N	10.00 L	#####		0	2770700	82701
Apr. 4	6.1	58.3	C N	14.00 L	#####		0	2941700	171000
Apr. 5	7.1	58.3	C N	11.00 L	#####		0	3132700	191000
Apr. 6	6.1	58.3	C N	13.75 L	#####		0	3318300	185600
Apr. 7	7.3	58.3	C N	4.00 L	#####		0	3452900	134600
Apr. 8	7.4	58.3	C N	2.00 L	#####		0	3558800	105900
Apr. 9	7.6	58.3	C N	760 MI	#####		0	3577800	79000
Apr. 10	9.4	58.3	C N	4.00 L	#####		0	3646100	68300
Apr. 11	9.0	58.3	C N	9.75 L	#####		0	3777000	130900
Apr. 12	7.1	58.3	C N	10.50 L	#####		0	3917300	140300
Apr. 13	7.3	58.3	C N	9.75 L	#####		0	4053300	136000
Apr. 14	7.3	58.3	C N	4.00 L	#####		0	4107533	54233
Apr. 15	7.3	58.3	C N	2.00 L	#####		0	4161760	154277
Apr. 16	7.0	58.3	C N	11.25 L	#####		0	4216000	54240
Apr. 17	6.3	58.3	C N	12.50 L	#####		0	4318600	102600
Apr. 18	6.3	58.3	C N	10.0 L	#####		0	4432500	113900
Apr. 19	6.7	58.3	C N	10.75 L	#####		0	4552500	120000
Apr. 20	6.5	58.3	C N	8.00 L	#####		0	4688200	135700
Apr. 21	7.3	58.3	C N	4.00 L	#####		0	4797400	109200
Apr. 22	6.9	58.3	C N	1.0 L	#####		0	4821600	54200
Apr. 23	7.5	58.3	C N	2200 mL	#####		0	4878700	57100
Apr. 24	6.6	58.3	C N	10.00 L	#####		0	4979920	101220
Apr. 25	9.2	58.3	C N	13.00 L	#####		0	4988830	68910
Apr. 26	6.7	58.3	C N	11.50 L	#####		0	5019992	31162
Apr. 27	6.6	58.3	C N	13.00 L	#####		0	5152992	133000
Apr. 28	6.5	58.3	C N	8.00 L	#####		0	5231092	78100
Apr. 29	6.1	58.3	C N	5.00 L	#####		0	5280492	49400
Apr. 30	5.7	58.3	C N	6.00 L	#####	0	0	5379000	98508
	pH								3078751
	7.1								
	9.4								
	5.7								

Source: Client

Date: 8/22/03

June 2001

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
May 31								8970299	
Jun. 1	7.2	58.3	9.75 L	CL N	#####		0	9119399	149100
Jun. 2	7.2	58.3	4.50 L	CL N	#####		0	9176299	56900
Jun. 3	6.9	58.3	4.50 L	CL N	#####		0	9236999	60700
Jun. 4	7.1	58.3	5.00 L	CL N	#####		0	9254490	17491
Jun. 5	6.7	58.3	9.00 N	CL N	#####		0	9371990	117500
Jun. 6	7.1	58.3	14.50 L	CL N	#####		0	9529390	157400
Jun. 7	6.1	58.3	12.50 L	CL N	#####		0	9686390	157000
Jun. 8	6.7	58.3	9.75 L	CL N	#####		0	9820790	134400
Jun. 9	6.0	58.3	8.50 L	CL N	#####		0	9911590	90800
Jun. 10	6.7	58.3	8.50 L	CL N	#####		0	9965190	53600
Jun. 11	7.2	58.3	5.00 L	CL N	#####		0	10022890	57700
Jun. 12	9.6	58.3	5.75 L	CL N	#####		0	10109790	86900
Jun. 13	7.2	58.3	13.00 L	CL N	#####		0	10187400	77610
Jun. 14	6.9	58.3	6.00 L	CL N	#####		0	10288200	100800
Jun. 15	6.7	58.3	10.00 L	CL N	#####		0	10432000	143800
Jun. 16	6.1	58.3	8.00 L	CL N	#####		0	10547700	115700
Jun. 17	6.3	58.3	2.00 L	CL N	#####		0	10590100	42400
Jun. 18	6.6	58.3	3.00 L	CL N	#####		0	10638800	48700
Jun. 19	7.2	58.3	12.00 L	CL N	#####		0	10791900	153100
Jun. 20	7.3	58.3	8.50 L	CL N	#####		0	10936800	144900
Jun. 21	6.5	58.3	11.00 L	CL N	#####		0	11097600	160800
Jun. 22	9.2	58.3	17.00 L	CL N	#####		0	11302500	204900
Jun. 23	7.2	58.3	10.00 L	CL N	#####		0	11432600	130100
Jun. 24	6.9	58.3	2.00 L	CL N	#####		0	11533990	101390
Jun. 25	6.8	58.3	2.00 L	CL N	#####		0	11634500	100510
Jun. 26	5.6	58.3	11.00 L	CL N	#####		0	11705000	70500
Jun. 27	6.7	58.3	14.00 L	CL N	#####		0	11890000	185000
Jun. 28	5.9	58.3	10.0 L	CL N	#####		0	12036400	146400
Jun. 29	6.9	58.3	12.00 L	CL N	#####		0	12182600	146200
Jun. 30	7.6	58.3	6.00 L	CL N	##### 0		0	12281200	98600
	pH								3310901
	6.9								
	9.6								
	5.6								
								Source: <u>Clairant</u>	
								Date: <u>8/22/03</u>	

July 01

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Jun. 30								2281200	
Jul. 1	7.5	58.3	7.00 L	CL N	#####		0	2387000	105800
Jul. 2	6.9	58.3	10.50 L	CL N	#####		0	2540400	153400
Jul. 3	6.6	58.3	10.50 L	CL N	#####		0	2711700	171300
Jul. 4	6.5	58.3	10.00 L	CL N	#####		0	2842800	131100
Jul. 5	7.1	58.3	4.00 L	CL N	#####		0	2900600	57800
Jul. 6	6.5	56.9	8.00 L	CL N	#####		0	3055600	155000
Jul. 7	6.2	56.9	11.00 L	CL N	#####		0	3193500	137900
Jul. 8	6.1	56.9	9.00 L	CL N	#####		0	3304200	110700
Jul. 9	6.1	57.6	10.00 L	CL N	#####		0	3325699	121499
Jul. 10	6.0	57.6	7.50 L	CL N	#####		0	3454399	128700
Jul. 11	6.2	57.6	7.00 L	CL N	#####		0	3605999	151600
Jul. 12	9.2	57.6	13.50 L	CL N	#####		0	3753099	147100
Jul. 13	6.7	57.6	13.00 L	CL N	#####		0	3897599	144500
Jul. 14	6.9	57.6	8.00 L	CL N	#####		0	4077499	179900
Jul. 15	6.8	57.6	12.00 L	CL N	#####		0	4204129	126630
Jul. 16	6.7	57.6	8.75 L	CL N	#####		0	4271699	67570
Jul. 17	7.2	57.6	8.75 L	CL N	#####		0	4378499	106800
Jul. 18	6.9	57.6	16.00 L	CL N	#####		0	4535699	157200
Jul. 19	7.5	57.6	12.00 L	CL N	#####		0	4668499	132800
Jul. 20	7.1	57.6	12.50 L	CL N	#####		0	4780599	112100
Jul. 21	7.5	57.6	6.00 L	CL N	#####		0	4871199	90600
Jul. 22	7.3	57.6	6.00 L	CL N	#####		0	4989999	118800
Jul. 23	7.2	57.6	12.00 L	CL N	#####		0	5120000	130001
Jul. 24	7.8	57.6	11.50 L	CL N	#####		0	5131160	111160
Jul. 25	7.4	57.6	10.00 L	CL N	#####		0	5252160	121000
Jul. 26	7.2	57.6	10.0 L	CL N	#####		0	5417700	165540
Jul. 27	7.3	57.6	16.00 L	CL N	#####		0	5730800	313100
Jul. 28	7.2	57.6	10.00 L	CL N	#####		0	5880900	150100
Jul. 29	7.3	57.6	24.00 L	CL N	#####		0	6031000	150100
Jul. 30	9.6	57.6	18.00 L	CL N	#####		0	6204400	173400
Jul. 31	7.1	57.6	14.00 L	CL N	#####		0	6436000	231600
	pH								4354800
	7.1								
	9.6								
	6.0								

Source: Clariant

Date: 8/22/03

August 2001
K#

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Jul. 31								6436000	
Aug. 1	7.9	57.6	CL N	15.00 L	#####		0	6517200	81200
Aug. 2	6.1	57.6	CL N	18.00 L	#####		0	6687100	169900
Aug. 3	8.4	57.6	CL N	18.50 L	#####		0	6829700	142600
Aug. 4	7.4	57.6	CL N	17.00 L	#####		0	6995500	165800
Aug. 5	6.6	57.6	CL N	19.00 L	#####		0	7128500	133000
Aug. 6	9.6	57.6	CL N	12.75 L	#####		0	7244500	116000
Aug. 7	7.2	55.7	CL N	12.00 L	#####		0	7396900	152400
Aug. 8	10.2	55.7	CL N	14.00 L	#####		0	7459900	63000
Aug. 9	7.9	56.5	CL N	850ml	#####		0	7468700	8800
Aug. 10	6.9	56.5	CL N	8.75 L	#####		0	7558099	89399
Aug. 11	6.6	56.5	CL N	10.75 L	#####		0	7678399	120300
Aug. 12		56.5	CL N	10.50 L	#####		0	7801799	123400
Aug. 13	9.4	56.5	CL N	12.00 L	#####		0	7943399	141600
Aug. 14	7.6	56.5	CL N	14.00 L	#####		0	8099299	155900
Aug. 15	5.4	56.5	CL N	7.00 L	#####		0	8220899	121600
Aug. 16	9.8	56.5	CL N	8.00 L	#####		0	8320799	99900
Aug. 17	7.4	56.5	CL N	10.50 L	#####		0	8518600	197801
Aug. 18	7.2	56.5	CL N	12.00 L	#####		0	8639600	121000
Aug. 19	6.6	56.5	CL N	9.00 L	#####		0	8717300	77700
Aug. 20	6.5	56.5	CL N	17.00 L	#####		0	8920200	202900
Aug. 21	9.0	56.5	CL N	16.00 L	#####		0	9098900	178700
Aug. 22	7.4	56.5	CL N	15.50 L	#####		0	9265999	167099
Aug. 23	6.9	56.5	CL N	13.00 L	#####		0	9399399	133400
Aug. 24	8.0	56.5	CL N	18.80L	#####		0	9602199	202800
Aug. 25	8.5	56.5	CL N	6.00L	#####		0	9677999	75800
Aug. 26	7.7	56.5	CL N	14.00L	#####		0	9843699	165700
Aug. 27	8.9	56.5	CL N	5.00L	#####		0	9922199	78500
Aug. 28	6.7	56.5	CL N	17.00L	#####		0	10120599	198400
Aug. 29	6.3	56.5	CL N	18.00L	#####		0	10337800	217201
Aug. 30	7.3	56.5	CL N	9.00L	#####		0	10447600	109800
Aug. 31	5.4	56.5	CL N	2.00L	#####		0	10508400	60800
									4072400
	pH								
	7.6								
	10.2								
	5.4								
Source: <u>Claimant</u>								Date: <u>8/22/03</u>	

Sept 2001 KA

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Aug. 31								508400	
Sep. 1	6.6	56.5	CL N		0		0	605900	97500
Sep. 2	7.7	56.5	CL N	12.00L	#####		0	753900	148000
Sep. 3	6.3	56.5	CL N	12.00L	#####		0	892700	138800
Sep. 4	7.0	56.5	CL N	12.00L	#####		0	1055500	162800
Sep. 5	6.0	56.5	CL N	9.00L	#####		0	1182400	126900
Sep. 6	7.4	56.5	CL N	12.00L	#####		0	1300700	118300
Sep. 7	7.6	56.5	CL N	12.00L	#####		0	1450700	150000
Sep. 8	6.8	56.5	CL N	14.00 L	#####		0	1575900	125200
Sep. 9	6.9	56.5	CL N	18.00 L	#####		0	1701100	125200
Sep. 10	7.1	56.5	CL N	10.00 L	#####		0	1815600	114500
Sep. 11	8.0	56.5	CL N	18.50 L	#####		0	1970700	155100
Sep. 12	8.5	56.5	CL N	8.75 L	#####		0	2097900	127200
Sep. 13	6.5	56.5	CL N	14.0 L	#####		0	2261400	163500
Sep. 14	8.5	56.5	CL N	7.00 L	#####		0	2345800	84400
Sep. 15	8.3	56.5	CL N	11.00 L	#####		0	2491500	145700
Sep. 16	7.3	56.5	CL N	8.00 L	#####		0	2580400	88900
Sep. 17	8.7	56.5	CL N	12.00 L	#####		0	2734299	153899
Sep. 18	8.8	56.5	CL N	12.00 L	#####		0	2905999	171700
Sep. 19	7.9	56.5	CL N	6.00 L	#####		0	3083699	177700
Sep. 20	7.9	56.5	CL N	13.50 L	#####		0	3225599	141900
Sep. 21	8.2	56.5	CL N	16.50 L	#####		0	3390100	164501
Sep. 22	7.0	56.5	CL N	12.00 L	#####		0	3411800	121700
Sep. 23	6.6	56.5	CL N	13.00 L	#####		0	3568300	156500
Sep. 24	7.1	56.5	CL N	7.00 L	#####		0	3677700	109400
Sep. 25	7.8	56.5	CL N	12.00 L	#####		0	3778800	101100
Sep. 26	8.0	56.5	CL N	15.00 L	#####		0	3889000	110200
Sep. 27	4.8	56.5	CL N	12.50 L	#####		0	3991999	102999
Sep. 28	7.0	56.5	CL N	15.00 L	#####		0	4029999	138000
Sep. 29	7.8	56.5	CL N	11.00 L	#####		0	4188500	158501
Sep. 30	9.5	56.5	CL N	12.00 L	#####	0	0	4388500	200000
	pH								4080100
	7.5								
	9.5								
	4.8								

Source: claimant

Date: 8/22/03

Oct 2001
KHA

Limits

Date	Effluent pH Meter	47.0 - 49.0 59.0 - 59.5 Slope	Reason Liter	CL Y or N	Titer	GRAB TKN	AgNO Titer	% NaCl	WELL HOUSE READING	USEAGE
Sep. 30									4388500	
Oct. 1		56.5	13.50	N		0		0	4715199	326699
Oct. 2	6.7	56.5	15.00	N		0		0	4859499	144300
Oct. 3	6.4	56.5	11.00	N		0		0	4966829	107330
Oct. 4		56.5	6.00	N		0		0	5087329	120500
Oct. 5	6.4	56.5	12.50	N		0		0	5260929	173600
Oct. 6	7.3	56.5	12.00	N		0		0	5433829	172900
Oct. 7	6.5	56.5	11.00	N		0		0	5531729	97900
Oct. 8		56.5	11.00	N		0		0	5661999	130270
Oct. 9		56.5	6.00	N		0		0	5830499	168500
Oct. 10	7.3	56.5	12.50	N		0		0	5977800	147301
Oct. 11	6.6	56.5	11.00	N		0		0	6115000	137200
Oct. 12	6.9	56.5	17.00	N		0		0	6347699	232699
Oct. 13	8.4	56.5	17.00	N		0		0	6567099	219400
Oct. 14	8.0	56.5	12.00	N		0		0	6715399	148300
Oct. 15	7.0	56.5	14.00	N		0		0	6874199	158800
Oct. 16	7.3	56.5	14.00	N		0		0	7050699	176500
Oct. 17		56.5	10.00	N		0		0	7168100	117401
Oct. 18	7.9	56.5	16.00	N		0		0	7286400	118300
Oct. 19	6.9	56.5	15.75	N		0		0	7468400	182000
Oct. 20	8.4	56.5	14.00	N		0		0	7660400	192000
Oct. 21	7.1	56.5	11.00	N		0		0	7840000	179600
Oct. 22		56.5	8.00	N		0		0	7924100	84100
Oct. 23		56.5	7.00	N		0		0	8020300	96200
Oct. 24	7.3	56.5	14.00	N		0		0	8159200	138900
Oct. 25	8.3	56.5	7.50	N		0		0	8283200	124000
Oct. 26	7.0	56.5	11.00	N		0		0	8410000	126800
Oct. 27	7.0	56.5	15.00	N		0		0	8588300	178300
Oct. 28	7.0	56.5	9.00	N		0		0	8716000	127700
Oct. 29		56.5	9.50	N		0		0	8798500	82500
Oct. 30	7.1	56.5	6.00	N		0		0	8985000	186500
Oct. 31	8.1	56.5	13.00	N		0		0	9161100	176100
	pH									4772600
	7.3									
	8.4									
	6.4									

Source: Clackhant

Date: 8/22/03

November
2001

Date	WELL HOUSE READING	USEAGE
Oct. 31	9161100	
Nov. 1	9235200	74100
Nov. 2	9357800	122600
Nov. 3	9480100	122300
Nov. 4	9619800	139700
Nov. 5	9787099	167299
Nov. 6	9960299	173200
Nov. 7	10131699	171400
Nov. 8	10228800	97101
Nov. 9	10417400	188600
Nov. 10	10528200	110800
Nov. 11	10739600	211400
Nov. 12	10903000	163400
Nov. 13	11065800	162800
Nov. 14	11237700	171900
Nov. 15	11384400	146700
Nov. 16	11484100	99700
Nov. 17	11629200	145100
Nov. 18	11798400	169200
Nov. 19	11916600	118200
Nov. 20	12045000	128400
Nov. 21	12129100	84100
Nov. 22	12218100	89000
Nov. 23	12346600	128500
Nov. 24	12487900	141300
Nov. 25	12629200	141300
Nov. 26	12673300	144100
Nov. 27	12823700	150400
Nov. 28	12917300	93600
Nov. 29	13003400	86100
Nov. 30	13167199	163799
		4106099

Source: claimant

Date: 8/22/03

Dec 2001
KH

Date	WELL HOUSE READING	USEAGE
Nov. 30	3167199	
Dec. 1	3267199	100000
Dec. 2	3367199	100000
Dec. 3	3483999	116800
Dec. 4	3583999	100000
Dec. 5	3781300	197301
Dec. 6	3881300	100000
Dec. 7	3991900	110600
Dec. 8	4192099	200199
Dec. 9	4297500	105401
Dec. 10	4495970	198470
Dec. 11	4629800	133830
Dec. 12	4795600	165800
Dec. 13	4895600	100000
Dec. 14	4996520	100920
Dec. 15	5190250	193730
Dec. 16	5292300	102050
Dec. 17	5388499	96199
Dec. 18	5488499	100000
Dec. 19	5605849	117350
Dec. 20	5747600	141751
Dec. 21	5884999	137399
Dec. 22	5998400	113401
Dec. 23	6102599	104199
Dec. 24	6305780	203181
Dec. 25	6487680	181900
Dec. 26	6654850	167170
Dec. 27	6797799	142949
Dec. 28	6910890	113091
Dec. 29	6999910	89020
Dec. 30	7125900	125990
Dec. 31	7238900	113000
		4071701

Source: Claimant

Date: 8/22/03

Jan 2002
[Signature]

Date	WELL HOUSE READING	USEAGE
Dec. 31	7238900	
Jan. 1	7424300	185400
Jan. 2	7524300	100000
Jan. 3	7717000	192700
Jan. 4	7832900	115900
Jan. 5	8028300	195400
Jan. 6	8136900	108600
Jan. 7	8313500	176600
Jan. 8	8491400	177900
Jan. 9	8640000	148600
Jan. 10	8784800	144800
Jan. 11	8881200	96400
Jan. 12	9034700	153500
Jan. 13	9185400	150700
Jan. 14	9313300	127900
Jan. 15	9463600	150300
Jan. 16	9565200	101600
Jan. 17	9681600	116400
Jan. 18	9797500	115900
Jan. 19	9928400	130900
Jan. 20	10067400	139000
Jan. 21	10188400	121000
Jan. 22	10300600	112200
Jan. 23	10422800	122200
Jan. 24	10496200	73400
Jan. 25	10621500	125300
Jan. 26	10724900	103400
Jan. 27	10928200	203300
Jan. 28	11092400	164200
Jan. 29	11292800	200400
Jan. 30	11396599	103799
Jan. 31	11413899	17300
		4174999

Source: Claimant

Date: 8/22/03

Feb 2003

Date	Time	WELL HOUSE READING	USEAGE
Jan. 31	7:25	4138999	
Feb. 1	8:30	4305999	167000
Feb. 2	9:00	4477199	171200
Feb. 3	8:30	4700899	223700
Feb. 4	8:30	4804099	103200
Feb. 5	9:00	4913699	109600
Feb. 6	9:00	5045699	132000
Feb. 7	8:30	5184999	139300
Feb. 8	9:00	5325800	140801
Feb. 9	7:30	5513700	187900
Feb. 10	8:40	5666100	152400
Feb. 11	9:00	5844200	178100
Feb. 12	8:40	6020100	175900
Feb. 13	8:50	6186700	166600
Feb. 14	9:00	6347900	161200
Feb. 15	8:40	6497300	149400
Feb. 16	8:10	6633700	136400
Feb. 17	9:30	6796000	162300
Feb. 18	9:50	6958799	162799
Feb. 19	8:30	7040799	82000
Feb. 20	8:30	7196400	155601
Feb. 21	8:45	7326100	129700
Feb. 22	9:00	7503599	177499
Feb. 23	9:00	7643999	140400
Feb. 24	9:00	7765599	121600
Feb. 25	9:30	7897099	131500
Feb. 26	8:30	8030399	133300
Feb. 27	9:30	8149099	118700
Feb. 28	9:30	8254899	105800
			0
			0
			4115900

Source: clairmont

Date: 8/22/03

Mar 2002 PA

Date	Time	WELL HOUSE READING	USEAGE
Feb. 28	9:30	8254899	
Mar. 1	8:30	8489699	234800
Mar. 2	9:00	8770019	280320
Mar. 3	9:45	8888920	118901
Mar. 4	8:30	9013520	124600
Mar. 5	8:15	9138420	124900
Mar. 6	8:30	9258820	120400
Mar. 7	8:30	9401720	142900
Mar. 8	8:40	9544220	142500
Mar. 9	6:00	9691620	147400
Mar. 10	10:15	9882220	190600
Mar. 11	8:55	9999200	116980
Mar. 12	9:00	10342199	342999
Mar. 13	8:50	10443100	100901
Mar. 14	9:10	10519200	76100
Mar. 15	9:00	10595200	76000
Mar. 16	10:20	10701500	106300
Mar. 17	8:45	10807700	106200
Mar. 18	9:55	11073900	266200
Mar. 19	9:50	11217100	143200
Mar. 20	9:30	11354400	137300
Mar. 21	9:25	11480800	126400
Mar. 22	9:05	11573700	92900
Mar. 23	8:30	11649900	76200
Mar. 24	11:10	11925900	276000
Mar. 25	8:50	12006300	80400
Mar. 26	9:50	12112800	106500
Mar. 27	9:50	12262300	149500
Mar. 28	9:30	12382900	120600
Mar. 29	8:40	12486700	103800
Mar. 30	6:15	12554600	67900
Mar. 31	8:00	12637300	82700
			4382401

Source: claimant

Date: 8/22/03

April 2002
KAT

Date	Time	WELL HOUSE READING	USEAGE
Mar. 31	8:00	2637300	
Apr. 1	8:40	2687100	49800
Apr. 2	9:45	2803500	116400
Apr. 3	8:45	2905500	102000
Apr. 4	9:10	3017200	111700
Apr. 5	9:40	3118600	101400
Apr. 6	8:00	3137799	19199
Apr. 7	9:45	3338699	200900
Apr. 8	8:40	3688700	350001
Apr. 9	9:20	3810400	121700
Apr. 10	8:55	3918000	107600
Apr. 11	9:00	4023300	105300
Apr. 12	8:55	4120100	96800
Apr. 13	8:25	4201300	81200
Apr. 14	9:45	4255700	54400
Apr. 15	9:00	4387100	131400
Apr. 16	9:00	4500700	113600
Apr. 17	9:40	4643600	142900
Apr. 18	9:35	4777600	134000
Apr. 19	8:45	4897800	120200
Apr. 20	9:20	5056700	158900
Apr. 21	9:00	5204399	147699
Apr. 22	8:40	5249299	44900
Apr. 23	9:50	5368999	119700
Apr. 24	9:00	5475199	106200
Apr. 25	8:45	5609599	134400
Apr. 26	9:00	5748599	139000
Apr. 27	8:30	5879899	131300
Apr. 28	9:00	5949299	69400
Apr. 29	8:30	6061700	112401
Apr. 30	9:00	6225500	163800
			3588200

Source: Claimant

Date: 8/22/03

May 2002
KHA

Date	Time	WELL HOUSE READING	USEAGE
Apr. 30	9:00	6225500	
May 1	7:40	6393300	167800
May 2	9:00	6541900	148600
May 3	8:45	6663900	122000
May 4	7:30	6757300	93400
May 5	9:45	6866000	108700
May 6	9:50	6905800	39800
May 7	8:35	7027800	122000
May 8	9:30	7212899	185099
May 9	9:35	7338899	126000
May 10	9:45	7466499	127600
May 11	9:15	7575699	109200
May 12	10:00	7662799	87100
May 13	9:00	7793899	131100
May 14	9:52	7962799	168900
May 15	9:10	8121999	159200
May 16	8:40	8249099	127100
May 17	8:35	8369499	120400
May 18	8:30	8457999	88500
May 19	16:15	8569799	111800
May 20	9:15	8690100	120301
May 21	8:50	8814900	124800
May 22	8:55	8966499	151599
May 23	8:40	9108299	141800
May 24	8:40	9214499	106200
May 25	8:30	9293299	78800
May 26	8:10	9370899	77600
May 27	8:15	9448799	77900
May 28	9:05	9554199	105400
May 29	9:00	9659199	105000
May 30	9:00	9776999	117800
May 31	9:50	9878099	101100
			3652599

Source: claimant

Date: 8/22/03

June 2002
PA

Date	Time	WELL HOUSE READING	USEAGE
May 31	9:50	9878099	
Jun. 1	8:00	9985799	107700
Jun. 2	10:00	10013299	27500
Jun. 3	9:00	10124700	111401
Jun. 4	8:35	10262200	137500
Jun. 5	9:25	10386300	124100
Jun. 6	8:55	10524500	138200
Jun. 7	9:15	10653900	129400
Jun. 8	8:30	10732300	78400
Jun. 9	10:00	10853300	121000
Jun. 10	9:00	10983500	130200
Jun. 11	9:40	11124400	140900
Jun. 12	9:30	11272800	148400
Jun. 13	8:55	11403300	130500
Jun. 14	9:25	11562300	159000
Jun. 15	8:40	11646000	83700
Jun. 16	8:00	11704600	58600
Jun. 17	8:40	11759300	54700
Jun. 18	9:20	11854100	94800
Jun. 19	9:05	11969800	115700
Jun. 20	9:05	12075500	105700
Jun. 21	9:05	12216100	140600
Jun. 22	7:45	12322300	106200
Jun. 23	7:30	12464000	141700
Jun. 24	9:00	12584700	120700
Jun. 25	9:00	12709000	124300
Jun. 26	8:20	12813500	104500
Jun. 27	8:55	12945300	131800
Jun. 28	7:42	13064900	119600
Jun. 29	8:45	13157800	92900
Jun. 30	10:00	13214100	56300
			3336001

Source: clarinet

Date: 8/22/03

July 2002
SpA

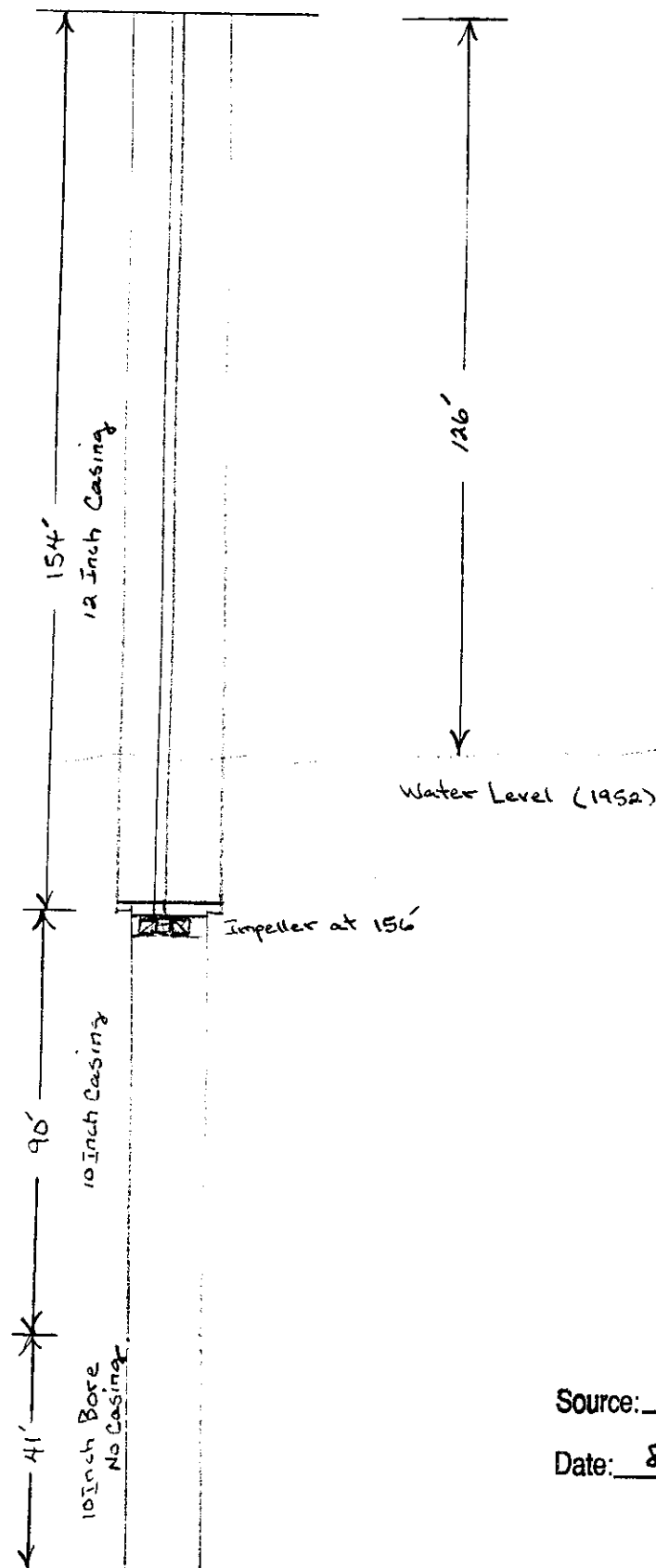
Date	Time	WELL HOUSE READING	USEAGE
Jun. 30	10:00	3214100	
Jul. 1	7:00	3339500	125400
Jul. 2	8:30	3471700	132200
Jul. 3	8:30	3602900	131200
Jul. 4	8:00	3710600	107700
Jul. 5	10:00	3812500	101900
Jul. 6	8:30	3917700	105200
Jul. 7	9:00	4045100	127400
Jul. 8	8:55	4147800	102700
Jul. 9	9:20	4275600	127800
Jul. 10	9:55	4535400	259800
Jul. 11	9:25	4671200	135800
Jul. 12	9:10	4814500	143300
Jul. 13	8:30	4947800	133300
Jul. 14	8:00	5022400	74600
Jul. 15	8:50	5102399	79999
Jul. 16	8:55	5251799	149400
Jul. 17	8:37	5389699	137900
Jul. 18	9:15	5514099	124400
Jul. 19	9:40	5667999	153900
Jul. 20	7:20	5748899	80900
Jul. 21	9:00	5831299	82400
Jul. 22	8:50	5998599	167300
Jul. 23	9:45	6122999	124400
Jul. 24	9:40	6309899	186900
Jul. 25	10:10	6434099	124200
Jul. 26	8:35	6543399	109300
Jul. 27	9:00	6642799	99400
Jul. 28	8:45	6692799	50000
Jul. 29	8:10	6744099	51300
Jul. 30	9:30	6804899	60800
Jul. 31	9:10	6877199	72300
			3663099

Source: claimant

Date: 8/22/03

Existing Water Well
PPC Idaho Falls

Fairbanks Morse
1800 RPM / 50 HP



8006 GPM
7 RPM

Source: Claimant

Date: 8/22/03

Not To Scale

Andrew

WELL DRILLING SERVICES

"The Water Professionals"

FAX MESSAGE - COVER SHEET

Date: June 23, 1993 Time: 12:25PM Page 1 of 3

Attention: Bob Kroupa

Of: Penford Products Co

Fax #: 524-571

From: Roger Buchanan

RE: Industrial Well

Please call (208) 522-2794 if you do not receive the number of pages shown above.

Source: Claimant

Date: 8/22/03

July 2003

~~Sampled with Stg~~

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Jun. 30	JJ	9:10	19731500	
Jul. 1	JJ	8:00	19854100	122600
Jul. 2	JJ	10:05	19952200	98100
Jul. 3	JJ	7:25	61200	109000
Jul. 4			138200	77000
Jul. 5			240200	102000
Jul. 6	JJ	9:00	344400	104200
Jul. 7	JJ	2:00	469200	124800
Jul. 8	JJ	9:25	571800	102600
Jul. 9	JJ	8:50	702300	130500
Jul. 10	JJ	7:10	825100	122800
Jul. 11	JJ	7:25	940400	115300
Jul. 12	JJ	9:30	1041100	100700
Jul. 13	JJ	9:30	1159900	118800
Jul. 14	JJ	10:45	1218800	58900
Jul. 15	JJ	10:05	1298700	79900
Jul. 16	JJ	8:45	1406200	107500
Jul. 17	JJ	8:55	1517500	111300
Jul. 18	JJ	9:35	1638900	121400
Jul. 19	JJ	7:00	1764100	125200
Jul. 20	JJ	9:30	1926800	162700
Jul. 21	JJ	7:30	2080400	153600
Jul. 22	JJ	11:15	2213200	132800
Jul. 23	JJ	8:15	2367300	154100
Jul. 24	JJ	10:20	2521350	154050
Jul. 25	JJ	9:20	2625150	103800
Jul. 26	JJ	7:35	2697610	72460
Jul. 27	JJ	9:30	2823410	125800
Jul. 28	JJ	8:50	2932410	109000
Jul. 29	JJ	8:40	3045410	113000
Jul. 30	JJ	9:35	3181610	136200
Jul. 31	JJ	9:40	3325900	144290
				3594400

Source: claimant

Date: 8/22/03

June 2003
#A

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
May 31	JJ	6:50	16087200	
Jun. 1	JJ	9:50	16310300	223100
Jun. 2	JJ	8:15	16410300	100000
Jun. 3	JJ	9:15	16523000	112700
Jun. 4	JJ	7:30	16634900	111900
Jun. 5	JJ	9:35	16722699	87799
Jun. 6	JJ	8:25	16825699	103000
Jun. 7	JJ	8:35	16969299	143600
Jun. 8	JJ	10:00	17096399	127100
Jun. 9	JJ	10:00	17225499	129100
Jun. 10	JJ	9:00	17339399	113900
Jun. 11	JJ	8:40	17479299	139900
Jun. 12	JJ	8:50	17620899	141600
Jun. 13	JJ	8:10	17753199	132300
Jun. 14	JJ	10:15	17875599	122400
Jun. 15	JJ	10:00	18010799	135200
Jun. 16	JJ	9:00	18210700	199901
Jun. 17	JJ	9:20	18309800	99100
Jun. 18	JJ	8:13	18405400	95600
Jun. 19	JJ	8:55	18503600	98200
Jun. 20	JJ	7:25	18574800	71200
Jun. 21	JJ	7:00	18641600	66800
Jun. 22	JJ	9:30	18713200	71600
Jun. 23	JJ	8:25	18787400	74200
Jun. 24	JJ	10:05	18906100	118700
Jun. 25	JJ	9:50	19058600	152500
Jun. 26	JJ	8:00	19163900	105300
Jun. 27	JJ	7:50	19278000	114100
Jun. 28	JJ	6:30	19399300	121300
Jun. 29		9:30	19513900	114600
Jun. 30		9:10	19731500	217600
			19731500	0
				3644300

Source: Claimant

Date: 8/22/03

May 2003
2A

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Apr. 30	JJ	9:45	12423799	
May 1	JJ	9:45	12543899	120100
May 2	JJ	8:50	12630299	86400
May 3	JJ	7:00	12765599	135300
May 4	JJ	1:00	12942299	176700
May 5	JJ	9:10	13103699	161400
May 6	JJ	9:45	13248799	145100
May 7	JJ	9:15	13417200	168401
May 8	JJ	7:47	13569900	152700
May 9	JJ	8:20	13720900	151000
May 10	JJ	8:30	13877900	157000
May 11	JJ	12:00	14034900	157000
May 12	JJ	8:55	14149600	114700
May 13	JJ	6:15	14258200	108600
May 14	JJ	6:20	14369599	111399
May 15	JJ	8:45	14469199	99600
May 16	JJ	7:35	14572699	103500
May 17	JJ	9:30	14711499	138800
May 18	JJ	10:30	14747199	35700
May 19	JJ	8:50	14789499	42300
May 20	JJ	8:30	14930099	140600
May 21	JJ	8:20	15025999	95900
May 22	JJ	8:45	15097099	71100
May 23	JJ	7:20	15157199	60100
May 24	JJ	9:00	15286599	129400
May 25	JJ	12:00	15421899	135300
May 26	JJ	10:00	15491299	69400
May 27	JJ	8:20	15590899	99600
May 28	JJ	7:35	15728199	137300
May 29	JJ	8:50	15888500	160301
May 30	JJ	8:50	15993600	105100
May 31	JJ	6:50	16087200	93600
				3663401

Source: Clariant

Date: 8/22/03

~~Sampled with Sig~~

Am 2003
KHA

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Mar. 31	JJ	9:00	8356400	
Apr. 1	JJ	8:50	8500900	144500
Apr. 2	JJ	8:45	8638900	138000
Apr. 3	JJ	9:00	8742900	104000
Apr. 4	JJ	7:55	8899100	156200
Apr. 5	JJ	9:00	9000600	101500
Apr. 6	JJ	9:00	9117200	116600
Apr. 7	JJ	8:20	9264799	147599
Apr. 8	JJ	8:00	9411000	146201
Apr. 9	JJ	9:25	9503400	92400
Apr. 10	JJ	8:25	9605200	101800
Apr. 11	JJ	9:10	9751600	146400
Apr. 12	JJ	8:35	9883500	131900
Apr. 13	JJ	1:30	10013200	129700
Apr. 14	JJ	8:45	10193100	179900
Apr. 15	JJ	9:20	10350800	157700
Apr. 16	JJ	10:55	10519600	168800
Apr. 17	JJ	11:50	10679200	159600
Apr. 18	JJ	6:40	10829700	150500
Apr. 19	JJ	9:15	10975900	146200
Apr. 20	JJ	7:30	11121300	145400
Apr. 21	JJ	7:45	11317400	196100
Apr. 22	JJ	8:15	11431300	113900
Apr. 23	JJ	8:05	11578300	147000
Apr. 24	JJ	9:35	11708000	129700
Apr. 25	JJ	8:45	11826100	118100
Apr. 26	JJ	8:20	11914600	88500
Apr. 27	JJ	12:50	12026600	112000
Apr. 28	JJ	9:00	12188499	161899
Apr. 29	JJ	7:50	12290399	101900
Apr. 30	JJ	9:45	12423799	133400
			12423799	0
				4067399

Source: claimant

Date: 8/22/03

~~Sampled with Sig~~ *Mar 2003* *KA*

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Feb. 28	JJ	6:55	4068900	
Mar. 1	JJ	8:40	4220900	152000
Mar. 2	JJ	11:00	4375700	154800
Mar. 3	JJ	7:20	4536000	160300
Mar. 4	JJ	8:50	4693500	157500
Mar. 5	JJ	7:55	4842600	149100
Mar. 6	JJ	9:45	4981600	139000
Mar. 7	JJ	7:30	5124700	143100
Mar. 8	JJ	8:05	5276300	151600
Mar. 9	JJ	10:30	5418200	141900
Mar. 10	JJ	9:40	5570500	152300
Mar. 11	JJ	9:50	5735800	165300
Mar. 12	JJ	9:30	5863500	127700
Mar. 13	JJ	10:00	6089700	226200
Mar. 14	JJ	8:20	6240800	151100
Mar. 15	JJ	8:00	6351600	110800
Mar. 16	JJ	8:30	6473300	121700
Mar. 17	JJ	9:00	6590200	116900
Mar. 18	JJ	9:30	6740400	150200
Mar. 19	JJ	9:35	6837900	97500
Mar. 20	JJ	7:00	6938300	100400
Mar. 21	JJ	7:30	7010100	71800
Mar. 22	JJ	8:45	7139200	129100
Mar. 23	JJ	9:00	7283500	144300
Mar. 24	JJ	9:00	7397400	113900
Mar. 25	JJ	10:00	7531800	134400
Mar. 26	JJ	7:05	7670300	138500
Mar. 27	JJ	9:10	7808500	138200
Mar. 28	JJ	8:00	7917800	109300
Mar. 29	JJ	7:45	8070200	152400
Mar. 30	JJ	8:00	8190200	120000
Mar. 31	JJ	9:00	8356400	166200
				4287500

Source: Claimant

Date: 8/22/03

Feb 2003
KA

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Jan. 31	JJ	9:15	300600	
Feb. 1	JJ	5:10	458000	157400
Feb. 2	JJ	10:00	616300	158300
Feb. 3	JJ	9:05	758200	141900
Feb. 4	JJ	9:15	920600	162400
Feb. 5	JJ	8:00	1028500	107900
Feb. 6	JJ	9:05	1136400	107900
Feb. 7	JJ	8:20	1262100	125700
Feb. 8	JJ	8:00	1363800	101700
Feb. 9	JJ	10:00	1483000	119200
Feb. 10	JJ	9:15	1652000	169000
Feb. 11	JJ	9:45	1774600	122600
Feb. 12	JJ	8:25	1884600	110000
Feb. 13	JJ	9:00	2014100	129500
Feb. 14	JJ	8:30	2144800	130700
Feb. 15	JJ	12:00	2292900	148100
Feb. 16	JJ	10:00	2425700	132800
Feb. 17	JJ	9:30	2558400	132700
Feb. 18	JJ	8:00	2675700	117300
Feb. 19	JJ	8:05	2802900	127200
Feb. 20	JJ	8:15	2954000	151100
Feb. 21	JJ	8:45	3077100	123100
Feb. 22	JJ	8:20	3189500	112400
Feb. 23	JJ	8:45	3313400	123900
Feb. 24	JJ	9:40	3503200	189800
Feb. 25	JJ	8:45	3650200	147000
Feb. 26	JJ	10:55	3796800	146600
Feb. 27	JJ	7:35	3915900	119100
Feb. 28	JJ	6:55	4068900	153000
				0
				0
				3768300

Source: Claimant

Date: 8/22/03

Jan 2003
KA

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Dec. 31	JJ	7:30	5991999	
Jan. 1	JJ	7:00	6077899	85900
Jan. 2	JJ	9:40	6154099	76200
Jan. 3	JJ	7:30	6301800	147701
Jan. 4	JJ	7:00	6414800	113000
Jan. 5	JJ	7:30	6532300	117500
Jan. 6	JJ	8:30	6637600	105300
Jan. 7	JJ	9:40	6773200	135600
Jan. 8	JJ	7:50	6944900	171700
Jan. 9	JJ	10:00	7120100	175200
Jan. 10	JJ	13:12	7291200	171100
Jan. 11	JJ	12:30	7515500	224300
Jan. 12	JJ	10:30	7672700	157200
Jan. 13	JJ	8:55	7796700	124000
Jan. 14	JJ	9:10	7922600	125900
Jan. 15	JJ	8:20	8101100	178500
Jan. 16	JJ	8:00	8198900	97800
Jan. 17	JJ	9:00	8315700	116800
Jan. 18	JJ	10:40	8407200	91500
Jan. 19	JJ	11:00	8518300	111100
Jan. 20	JJ	8:45	8693200	174900
Jan. 21	JJ	9:45	8841900	148700
Jan. 22	JJ	8:15	8985600	143700
Jan. 23	JJ	9:50	9137500	151900
Jan. 24	JJ	7:55	9289100	151600
Jan. 25	JJ	12:00	9446000	156900
Jan. 26	JJ	10:30	9592900	146900
Jan. 27	JJ	9:00	9753500	160600
Jan. 28	JJ	8:15	9881400	127900
Jan. 29	JJ	8:45	10048800	167400
Jan. 30	JJ	8:40	10159100	110300
Jan. 31	JJ	9:15	10300600	141500
				4308601

Source: claimant

Date: 8/22/03

Dec 2002
KH

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Nov. 30	JJ	7:20	1725000	
Dec. 1	JJ	9:00	1889400	164400
Dec. 2	JJ	9:15	2036900	147500
Dec. 3	JJ	6:00	2189700	152800
Dec. 4	JJ	8:00	2356300	166600
Dec. 5	JJ	9:05	2622100	265800
Dec. 6	JJ	8:20	2719500	97400
Dec. 7	JJ	8:40	2845700	126200
Dec. 8	JJ	10:00	2956400	110700
Dec. 9	JJ	9:00	3077700	121300
Dec. 10	JJ	9:45	3182000	104300
Dec. 11	JJ	8:50	3310400	128400
Dec. 12	JJ	10:00	3500100	189700
Dec. 13	JJ	8:30	3643800	143700
Dec. 14	JJ	5:30	3819800	176000
Dec. 15	JJ	10:00	3966500	146700
Dec. 16	JJ	10:20	4037099	70599
Dec. 17	JJ	9:05	4132299	95200
Dec. 18	JJ	8:25	4266099	133800
Dec. 19	JJ	8:25	4374599	108500
Dec. 20	JJ	7:30	4533199	158600
Dec. 21	JJ	9:10	4730699	197500
Dec. 22	JJ	10:30	4860099	129400
Dec. 23	JJ	8:20	4979099	119000
Dec. 24	JJ	10:30	5133999	154900
Dec. 25	JJ	7:35	5261599	127600
Dec. 26	JJ	7:20	5377299	115700
Dec. 27	JJ	7:00	5477399	100100
Dec. 28	JJ	7:00	5588499	111100
Dec. 29	JJ	7:00	5701799	113300
Dec. 30	JJ	10:00	5828299	126500
Dec. 31	JJ	7:30	5991999	163700
				4266999

Source: claimant

Date: 8/22/03

Nov 2002
KH

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Oct. 31		9:30	8419200	
Nov. 1	JJ	7:50	8565600	146400
Nov. 2	JJ	9:00	8702800	137200
Nov. 3	JJ	8:00	8810300	107500
Nov. 4	JJ	9:45	8911999	101699
Nov. 5	JJ	9:20	8996899	84900
Nov. 6	JJ	8:00	9109199	112300
Nov. 7	JJ	9:50	9207699	98500
Nov. 8	JJ	10:10	9316899	109200
Nov. 9	JJ	7:00	9420199	103300
Nov. 10	JJ	8:50	9501699	81500
Nov. 11	JJ	8:40	9553799	52100
Nov. 12	JJ	9:20	9635599	81800
Nov. 13	JJ	7:30	9755899	120300
Nov. 14	JJ	7:45	9875499	119600
Nov. 15	JJ	7:00	9986399	110900
Nov. 16	JJ	8:30	10102399	116000
Nov. 17	JJ	10:30	10255399	153000
Nov. 18	JJ	8:15	10400299	144900
Nov. 19	JJ	9:30	10538999	138700
Nov. 20	JJ	9:00	10633099	94100
Nov. 21	JJ	10:20	10766299	133200
Nov. 22	JJ	9:25	10928999	162700
Nov. 23	JJ	8:40	11039999	111000
Nov. 24	JJ	9:00	11199299	159300
Nov. 25	JJ	10:00	11290199	90900
Nov. 26	JJ	9:00	11402200	112001
Nov. 27	JJ	8:15	11535600	133400
Nov. 28	JJ	6:40	11601200	65600
Nov. 29	JJ	7:25	11661600	60400
Nov. 30	JJ	7:20	11725000	63400
				3305800

Source: claimant

Date: 8/22/03

Oct 2002
RH

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
			4418200	
Oct. 1	JJ	9:55	4570900	152700
Oct. 2	JJ	9:10	4726700	155800
Oct. 3	JJ	10:00	4851700	125000
Oct. 4	JJ	9:30	4962200	110500
Oct. 5	JJ	10:05	5074400	112200
Oct. 6	JJ	16:00	5167700	93300
Oct. 7	JJ	8:40	5321800	154100
Oct. 8	JJ	10:08	5453900	132100
Oct. 9	JJ	9:10	5563500	109600
Oct. 10	JJ	10:00	5729699	166199
Oct. 11	JJ	9:10	5817399	87700
Oct. 12	JJ	6:00	5963299	145900
Oct. 13	JJ	7:20	6034399	71100
Oct. 14	JJ	8:40	6191299	156900
Oct. 15	JJ	8:55	6313399	122100
Oct. 16	JJ	8:20	6471499	158100
Oct. 17	JJ	0:00	6553899	82400
Oct. 18	JJ	9:20	6671299	117400
Oct. 19	JJ	7:48	6801699	130400
Oct. 20	JJ	10:45	6910499	108800
Oct. 21	JJ	8:30	7078300	167801
Oct. 22	JJ	9:20	7229400	151100
Oct. 23	JJ	8:20	7433500	204100
Oct. 24	JJ	9:10	7562700	129200
Oct. 25	JJ	8:15	7668400	105700
Oct. 26	JJ	8:15	7785500	117100
Oct. 27	JJ	10:00	7907300	121800
Oct. 28	JJ	9:00	8013000	105700
Oct. 29	JJ	9:00	8167100	154100
Oct. 30	JJ	8:00	8304300	137200
Oct. 31	JJ	9:30	8419200	114900
				4001000

Source: Claimant

Date: 8/22/03

Sept 2002
 RA

Date	Lab Tech	Time	WELL HOUSE READING	USEAGE
Aug. 31		9:00	719700	
Sep. 1	RK	9:00	873000	153300
Sep. 2	RK	10:00	978000	105000
Sep. 3			1087000	109000
Sep. 4	RK	8:00	1209000	122000
Sep. 5			1311800	102800
Sep. 6	RK	9:20	1435900	124100
Sep. 7	JJ	8:50	1547900	112000
Sep. 8	JJ	8:45	1652000	104100
Sep. 9	JJ	9:35	1741400	89400
Sep. 10	JJ	9:20	1849600	108200
Sep. 11	JJ	8:30	1968800	119200
Sep. 12	JJ	8:25	2110500	141700
Sep. 13			2220500	110000
Sep. 14	JJ	9:00	2341200	120700
Sep. 15	JJ	8:30	2460300	119100
Sep. 16	JJ	9:25	2567000	106700
Sep. 17	JJ	10:30	2671400	104400
Sep. 18	JJ	9:05	2810600	139200
Sep. 19	JJ	9:55	2941400	130800
Sep. 20	JJ	7:50	3066000	124600
Sep. 21	JJ	9:25	3186300	120300
Sep. 22	JJ	9:30	3308200	121900
Sep. 23	JJ	9:55	3479500	171300
Sep. 24	JJ	10:30	3613000	133500
Sep. 25	JJ	8:40	3737600	124600
Sep. 26	JJ	9:00	3873900	136300
Sep. 27	JJ	7:45	4127300	253400
Sep. 28	JJ	8:25	4247400	120100
Sep. 29	JJ	10:00	4327800	80400
Sep. 30	JJ	9:30	4418200	90400
				3698500

Source: Claimant

Date: 8/22/03

Aug 2002
WPA

Date	Time	WELL HOUSE READING	USEAGE
Jul. 31	9:10	6877199	
Aug. 1	9:45	7011199	134000
Aug. 2	8:50	7107899	96700
Aug. 3	9:35	7290399	182500
Aug. 4	9:30	7454999	164600
Aug. 5	9:50	7608700	153701
Aug. 6	9:25	7738100	129400
Aug. 7	9:00	7867500	129400
Aug. 8	9:40	8025300	157800
Aug. 9	7:40	8150200	124900
Aug. 10	8:40	8286700	136500
Aug. 11	8:00	8430700	144000
Aug. 12	9:35	8571600	140900
Aug. 13	8:30	8726400	154800
Aug. 14	9:45	8906000	179600
Aug. 15	9:35	9028400	122400
Aug. 16	9:45	9098000	69600
Aug. 17	8:20	9179300	81300
Aug. 18	8:30	9304400	125100
Aug. 19	8:50	9456300	151900
Aug. 20	9:00	9596600	140300
Aug. 21	9:45	9701500	104900
Aug. 22	9:15	9839500	138000
Aug. 23	9:35	9993400	153900
Aug. 24	9:40	10100800	107400
Aug. 25	9:00	10133900	33100
Aug. 26	9:40	10182200	48300
Aug. 27	9:40	10297900	115700
Aug. 28	9:35	10425600	127700
Aug. 29	11:00	10575900	150300
Aug. 30	8:30	10681800	105900
Aug. 31		10719700	37900
			3842501

Source: claimant

Date: 8/22/03