To Our Many Friends

May we thank you for your patronage during the year just past and the relationship which we value highly we will do our utmost to maintain.

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District News

HAZELTON

St. Peter's Church, Hazelton, was well filled for the Christmas morning service. Several in the congregation had come in from the country, despite the cold. The service, which was fully choral, interpreted the Christmas message and the Church Army Choir, under the leadership of Ernest Harris, with David Mowatt at the organ, sang the anthem "Praise the Lord." The White Junior Choir was also in attendance. The church was tastefully decorated with cedar branches thanks to the young men of the Church Army. Rev. F. Burling conducted the service.

The Native Sunday School and the White Sunday School parties were held Tuesday and Wednesday respectively. On both occasions the fun became quite hilarious at times. This year each child was presented with a gift in addition to candy and nuts. Mercy Wright, Violet Derrick, and Aleda Myros, who had attended most regularly, were awarded special prizes. St. Thomas' Anglican Church, Chilliwack, this year donated presents and candy for the pupils.

The annual Christmas tree and concert of the Indian Day School was held on Wednesday afternoon of last week. The school was crowded with parents, old pupils and friends. The children sang carols, songs and part songs and the pupils of the primary grade excelled themselves in singing rounds to the great delight of the audience. The room presented a gay appearance with the artistic decorations and beautiful drawings, the work of the senior pupils. As in former years, the Indian Department donated $5 towards candies for the children, but this year, thanks to an anonymous donor, each child received a gift from the tree. Before their departure all those who attended received oranges or candy, which had been privately donated.

BURNS LAKE

A fall of snow on Christmas Eve made ideal Yuletide weather in Burns Lake. It turned colder on Monday and has been increasingly colder since then.

Burns Lake stores were gaily decorated and all reported doing a good Christmas business this year.

The Daily News is an A. B. C paper.

Christmas Concert At Burns Lake Was Fine Entertainment

BURNS LAKE, Dec. 30.—The annual Christmas Tree and concert of St. Paul's United Church was held last Friday night and drew a large attendance. The audience was appreciative of a splendid entertainment which consisted of carols, recitations, choruses, songs, drills, pantomines, playlets and instrumental selections.

Those taking part in the program were Margaret Gowans, Erling Berg, Lawrence Aslin, Betty Haddon, Kenneth Smith, Bessie Anderson, Ellen Anderson, Edna Ostberg, Kirky Gowans, Margaret McClary, Anne Loper, Una McClary, Alex Aslin, Tommy Smith, Evelyn Nicholls, Herbert Ashcroft, Adeline Gerow, May Middleton, Bernie Munger, Beryl Munger and Rose Munger, Marguerite Patterson, Jessie Gerow. Mrs. Frank Bushfield was in charge of the program and Mrs. M. F. Nourse, Mrs. J. M. Gowans and Miss Copithorne assisted. Rev. Frank Bushfield acted as chairman and Miss C. Manson was accompanist.

KITWANGA WEDDING

Mrs. A. Cadwallader Becomes The Bride of Gus Sampare

KITWANGA, Dec. 30:—A wedding of much interest in Kitwanga and district took place at St. Paul's Church on Wednesday. The happy couple united in marriage were Gus Sampare, Kitwanga postmaster, and Mrs. A. Cadwallader of Cedarvale. The church was full. The bridegroom was attended by R. Walker as best man, Tom Moore, R. Burton and J Berg. The bride was attended by Miss Lilian Paulis as bridesmaid, Misses Dolly Paulis of Cedarvale, Mrs. Turner of Terrace and Mrs. Leighton of Prince Rupert. The bride was attired in rose taffeta and was given away by Mr. Houston of Kispiox. Rev. B. Shearman officiated at the wedding. Mrs. R. Sampare played the wedding march.

Afterwards there was a banquet in the Community Hall under the management of Wallace Morgan. One hundred and sixty people attended. Six tables were laid. Rev. B. Shearman and T. Moore presided over the "white" table, at which the bride and bridegroom sat. A splendid spread was placed before all. A special table for chiefs was laid.

There were many present, from Kitwanga, Kitzegukla, Kispiox, Kitwancool and Vanarsdol.

Following the blessing the banquet began and the Totem Pole Band played selections during the repast period. Afterwards congratulatory speeches were made by Rev. Shearman, T. Moore, M Bright, M. Jones, E. Smith, D Wells and Mrs. A. Williams. The bridegroom, in a neat little speech both in English and the native language responded.

Both Mr. Sampare and his bride are highly respected for many miles around and are both old pioneers of this neighborhood

A dance was held later in the evening and was well attended Stanley William's Orchestra played the music.

Music

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Products Of Petroleum

A. G. Rix Gives Interesting Address On Subject at Rotary Club

"The Manufacture of Petroleum Products and Their Use" was the subject of an interesting address given yesterday by A. G. Rix, district manager of the Imperial Oil Company, at its regular weekly luncheon of the Prince Rupert Rotary Club. In the course of his remarks he said:

"The business of every one of you here depends to a large extent on a constant supply of good oil of various kinds for its successful operation and it is the privilege of the larger companies, particularly, to see that you get it. Oil keeps the wheels and propellors of President Bill's trains and boats running smoothly. It enables Paul and Bill Fulton to take quick but enjoyable hunting trips and fly back and forth across the country. It helps our medical members in concocting salves, ointments and various remedies. It smooths the operation of Alex's and Harry's printing presses and, in fact, there is some in the ink they use. Charlie and Tommy could keep their coal dustless with it and Bill Alder uses it on our roads. Max Heilbroner keeps his store warm with it and Jim Thompson uses it on his floors. Lee Gordon will sell you candles when Pete Linzey happens to run out of coal oil and you can't get light from Jock who keeps his transformers cool with it. Jack Nicholls uses it in his ice machines and Syd Thomson should use it in the form of wax to preserve his fruits and vegetables. I wouldn't say that Bill Millar actually bottles and sells it but certain alcohols are made from it and he could use it to clean his windows. The Dean uses it on his lawn mower and John Dybhavn has his meals cooked with it. Roy Vandersluys runs his snappy Buick and delivery truck with it and even could use it on his rolling slabs to prevent the dough from sticking. George Bryant might think his goods are free from it but certain oils are used to soften woollen fibres in spinning and weaving. Fred Scadden has it in paint and George Mitchell sells it in certain roofing papers and shingles. Bob Hopkins keeps his clothes spick and span with it and has it in the oilcloth on his office floor. Bert Ward's storage batteries have cases in which solvent naptha was used in the making. George Franklin kills flies with and has it in the heavy crayons he uses for marking.

Comes From Ground

"In the first place, what is commonly known as crude oil comes from a hole in the ground. This is not just any hole as to be profitable it must sit over a pool of oil which, incidently, is not actually a pool but more closely resembles a sponge with all the spaces filled with oil and is usually under considerable pressure.

"A geologist, by various intricate calculations, decides where the hole shall be drilled. If he is lucky, they strike oil and, after they have it under control, which is often like trying to hold a wildcat by the tail, they ship it to a refinery.

"At the refinery it is first of all analyzed in the laboratory where a staff of chemists, supplied with every instrument and apparatus for the purpose, dissects it to find exactly the properties that particular batch of crude has. These chemists continually check all operations and exact tests are made at each stage of refinement. No oil can reach what is called the "finished" storage tank without passing a great number of rigid inspections and likewise no oil can be released for shipment until it has passed a further set of still more rigid tests.

"A crude oil is composed of essentially two elements—hydrogen and carbon. However, hydrogen and carbon, by uniting with each other in different proportions, form a multitude of compounds—solid, liquid and gaseous—each with totally distinctive properties. The problem is to separate these various compounds and thus obtain the variety of products you need

Distillation

"The universal method of doing this is by distillation. It has been found that each of the various compounds of hydrogen and carbon which make up a crude oil vaporize at a different temperature. The crude is, therefore, put into a still, whose temperature can be carefully and exactly controlled. Each vapor, as it comes off the still in its own particular temperature range, is conducted through pipes immersed in cold water which converts it back to liquid form. Years ago this was practically the complete process but new improvements in refinery methods have rapidly taken place which, in turn, have had their effect on engine design and machine construction. For instance, without the products such as have been more or less recently developed, the modern car or airplane engine would be impossible.

"Nowadays, in the case of gasoline, distillation is usually carried out in a piece of apparatus called a "bubble tower." In the bubble tower are a number of trays spaced at intervals. Each tray is provided with a series of capped nipples through which the ascending vapor rises to contact the liquid which is on the plates.

"Essentially a bubble tower redistills the material on each plate. As the top of the tower is maintained at a lower temperature than the bottom, each plate is progressively hotter as the bottom is approached. A bubble tower of ten plates is roughly equivalent in fractionating efficiency to ten rerun stills. Modern refineries use a continuous battery of stills fitted with bubble towers, each succesive still being hotter than the last. With modern, up-to-date fractionating equipment, it is possible to control the quality of gasoline very closely.

"Practically all crude oil contains impurities of one kind or another, the most important of which is sulphur. This is not only present in the form of a yellow powder commonly called "flowers of sulphur," but is also present as intricate compounds which are invisible.

Great Care Needed

"They must be removed or the gasoline will corrode certain parts of the engines. There are various methods of removing the sulphur, one common one being to thoroughly mix a small quantity of sulphuric acid with the gasoline. Then it is necessary to treat it with caustic soda, which will remove what sulphuric acid remains. Finally it is washed with water to remove the caustic solution.

"Great care must be taken to assure satisfactory results. It is customary in Canada to market various grades of gasoline, each easily distinguished by its color. For automobiles, for instance, there are three usually, which are colored red, green, blue, orange or some other color and some is left the natural bright water white. The first or premium grade is colored red and is of the highest anti-knock rating, the second or regular is given many colors, depending on what company makes and markets it. It is especially designed for cars, has a satisfactory anti-knock rating second only to the premium grade.

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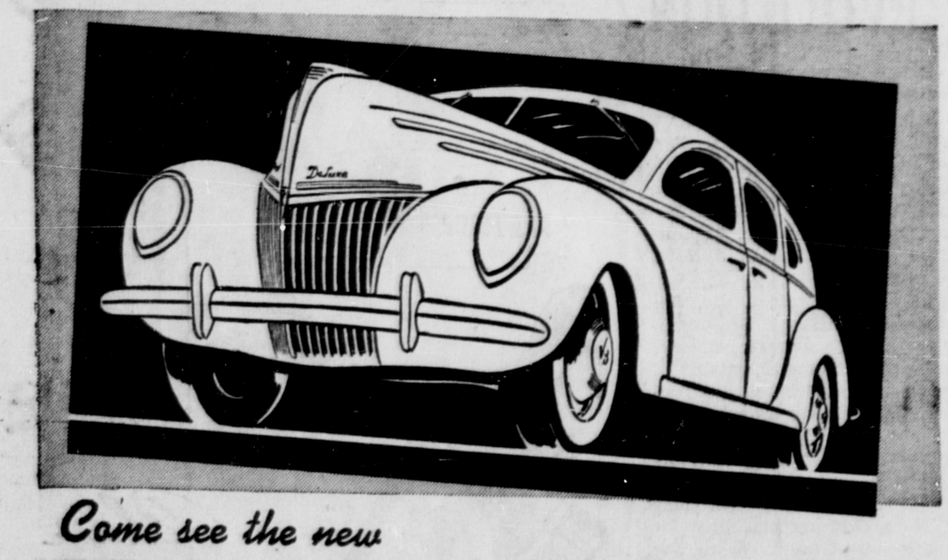

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