Qaisumah
by M. Jaouni
Qaisumah welcomed in June a newcomer to the station—Dr. R. E. Shaver. The outgoing resident was Dr. T. Khoury, May 22nd, by Badanah's surgeon, Dr. Michel Khoury. The operation went so smoothly that Dr. Khoury flew back to Turaif in early June where he was scheduled to spend his convalescence.

The Cradle Row
Badanah Award, Dr. and Mrs. A. B. Saad

Badanah witnessed the departure of Mr. and Mrs. N. Turk, Dr. and Mrs. A. Ghanimah, Dr. and Mrs. N. N. Hamoush, W. Kaldawi, Bassim Jumaa, son of Mr. and Mrs. Z. W. Kaldawi, and Mr. N. N. Hamoush.

Five Year Service Pins

Badanah, by Dora Saber
Our hats are tipped to the outgoing residents to Turaif, Mrs. A. B. Saad, Mr. and Mrs. H. H. Yamani. Our hearts are filled with joy as new residents arrive at Badanah station. Mr. Karam hails from Akkar, Lebanon. He is a member of the bachelor group, Dartez University, and has just finished his degree there. He is a member of the bachelor group, Dartez University, and has just finished his degree there.

Badanah station was completed by June 25th, and the building was completed earlier in May. A few revisions and additions to the capacity increase program, however, have been requested by the Acceptance Committee.

Consequently, the 22,000 BPD program was completed earlier in May. A few revisions and additions, in the capacity increase program, however, have been requested by the Acceptance Committee.

De partures
During May, we welcomed the following residents to Turaif and Qarya:

R. E. Shaver, on transfer from Turail Putter W. S. Bader and M. K. Dhewa, of Turaif and daughters. are already living in the station. The Operation went so smoothly that Dr. Khoury flew back to Turaif in early June where he was scheduled to spend his convalescence.

Mr. Karam hails from Akkar, Lebanon. He is a member of the bachelor group, Dartez University, and has just finished his degree there.

The July issue of the prestigious OA magazine will be devoted to the September meeting of the OA in Beirut. The meeting will be held at the American University in Beirut on September 11th and 12th, and is expected to attract over 1,000 members from all over the world.

INTERSTATE SAFETY CONTEST ORGANIZED IN TURAIL STATION

The competition for the safety contest will include all personnel at Beirut headquarters. The contest will be held on June 26th.

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IN THE SPOTLIGHT

With Tapline since November 24, 1947, Miss plank S. Manusuk, nurse, was elevated from Clinic Nurse to study in U.S.

HARVARD DIRECTOR RECOGNIZES TAPLINE NURSE

A Harvard director, with a special interest in the Middle East, was also present in Tapline's clinic.
'AUTOMATION IN THE DESERT'

by E.Y. Ayash

Calling, 1947, Lebanon, home and with Tapline since July 1947. Mr. Emile Y. Ayash is a 1934 graduate of the "Ecole Superieur d'Ingenieurs de Beyrouth" in civil engineering.

The operator first depresses a "check" button which sends a wireless message to the APU with the speed of light, 186,000 miles per second, and returns with an "O.K." signal indicating that the supervisory control system is in readiness for operation. He then depresses the "start" selector which initiates a similar wireless message to the turbine control panel which in turn starts the fans and pumps, and sets the valves necessary for the start of operations. The 200 hp diesel is then automatically started and the clutch engaged. When the turbine reaches the firing speed, the 200 hp diesel stops and disengages itself from the turbine automatically, after which the turbine carries on in a completely automatic way. There are in addition, telemetering channels which transmit to the master station the suction and discharge pressures, the ambient temperature and the set point. When a major overhaul or repair is required, the whole turbine van can be transported to the main shops, and a spare van brought in place.

REMOTE CONTROL OPERATION

How does an operator from one of the main stations control and stop one of these units, up to 100 miles away?

The third step of the APU's discharge pressure "set point" which is adjusted from the master control panel by a "raise" or "lower" selector key. The unit then carries on in a completely automatic way. There are in addition, telemetering channels which transmit to the master station the suction and discharge pressures, the ambient temperature and the set point. When something goes wrong at the turbine, an alarm message is transmitted to the master station supervisory panel which indicates, by a light, the seriousness and gravity of the fault. An attempt at starting sequence has been completed.

THE AUXILIARY PUMPING UNITS

Tapline has been a pioneer in many fields of modern pipeline operation. It has recently installed and successfully operated for the first time in the history of the oil industry, three completely portable, remotely controlled, gas turbine-driven auxiliary pumping units, known as APU's, at intermediate stations, between the initially constructed diesel stations, and at distances up to 100 miles away from them. Three of the remote control units are located at Shubah, Uwaigilah and Jalamid, between the original plants, and the fourth is permanently installed at Qaryatain, in Jordan. All operate unattended, controlled by microwave signals from the main diesel-driven pumping stations spaced about 160 miles apart at Qaisumah, Rafha, Badanah and Turaif and with a pumping capacity of 320,000 BPD. The remotely controlled units boost the pipeline throughput to an average of 450,000 BPD.

An original design was provided for expansion by the addition of four stations at intermediate points. Yet, the cost of installing these diesel-driven units and of their operation and maintenance is too high that Tapline turned to the 2,000 hp, single-cycle, combustion gas turbine, which provided the required increase in throughput at one-sixth of the installed cost of the metal stations. These turbines were the only prime movers which satisfied the design requirements for...
TURAIF

This pictorial review of the four sub-divisions, as well as the Motor Transport section of the pipeline, provides a glimpse into the heart of Turaif. The headquarters for the sub-divisions, Turaif Garage, is the largest personnel complement of the four. [Photos by Nasr]

With Mr. R. J. Krissler (second from right) and others at Turaif are subdivided into four sections: Heavy Trucking, Light Car and Heavy Equipment. Left to right: Head Automotive Mechanics, D. A. Husain, J. K. Tomlinson, and D. A. Husain, and J. K. Tomlinson, respectively, in charge of these divisions.

 Assigned to the heavy trucking repair crew at the Turaif garage are (left to right): mechanics, Abdallah Ibrahim, Muhammad Sadeh, and Saad Muhammad. The Heavy Equipment repair crew includes (left to right) mechanics. A. B. Rashid, J. B. Hussein, and D. B. Hazza'a have just replaced the Caterpillar diesel engine of a motor grader after an overhaul at the Turaif garage, Heavy Equipment division.

Left to right: mechanics, A. B. Rashid, J. B. Hussein, and D. B. Hazza'a have just replaced the Caterpillar diesel engine of a motor grader after an overhaul at the Turaif garage, Heavy Equipment division.

Lead Mechanic, M. A. Rashid (left) and mechanics, A. B. Rashid, J. B. Hussein, and D. B. Hazza'a have just replaced the Caterpillar diesel engine of a motor grader after an overhaul at the Turaif garage, Heavy Equipment division.

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ALONG THE LINE

Qaisumah
by M. S. Chehade

On the occasion of 74 al-Adha, Superintendent J. F. Pfister invited Qaisumah's Saudi employees to an Arab party on account of lamb and beef. Some thirty-five employees attended. After the meal, music and dancing were highlighted with music and dancing.

Qaisumah's Amir, Muhammad Khawar, felicitated Messrs. J. F. Pfister, J. N. Samaha, G. F. Yousef, W. S. Bailey, M. S. Chehade and Doctors K. H. Sallum and E. S. Sabagh along with a traditional Saudi breakfast of stuffed lamb. The group also attended the Amir's house which was decorated with flowers given by the Women's Committee.

The list of summer absences grows larger and larger. It already includes the J. J. Kibbers, H. Mansawy, O. E. Reiners, J. F. Zerrer, and R. J. Krueger. Their absence will return at a subsequent issue.

Yourself idle.
— Benjamin Franklin

STEPPING STONES

Beatrix, Queen of Rome last January 22. The newlyweds were entertained at a dinner party July 3 hosted by the Rafha Amir. (Photo by H. C. Van Putten).
LIGHTS... ACTION... CAMERA

BEIRUT — This familiar line of the movie industry was heard numerous times by Tapline's employees and contractors as they worked at the Sidon Marine Terminal during a recent filming of the new Tapline color movie from April 28 to 30.

The filming of the new Tapline movie on April 28 to 30 at the Sidon Marine Terminal, the studio alliance of the Tapline movie, which included general consultant Ray Graham, director Don Redinger, camera men Albert Lhota, assistant cameraman Anthony McKeown, and soundman Richard Patton, Garden Sessions, who wrote the original script entitled: "Oil Man Move, So Oil May Serve," surrounded the crew with art and scenic consultant. The proposed title for the 30-year anniversary of the Tapline from construction to its present increased operation is "Tapline: Fruits of Enterprise."

Shown above during a view of an underground section of the main pipeline near Balaamah station, the studio alliance crew, which filmed a 30-minute color movie in sound of the 'line during the month of May, included (left to right—back to camera): Ray Graham, general consultant; cameraman Albert Lhota, assistant cameraman A. F. McKeown, and Don Redinger, director. (Photo by E. Curtis)

The story on pressure reducing station was one of the main scenes shot at the Salam Marine Terminal by cameraman Al Lhota (left) and his assistant A. F. McKeown. (Photo by E. Curtis)

R. P. COCKE JOINS 30-YEAR PIN GROUP

BERUT — Thirty years of service with Tapline and affiliated companies was attained by Mr. Richard P. Cocke, Vice President, Secretary, and Treasurer of the company, completed thirty years of service to Tapline employees and associates. Mr. Cocke became associated with Tapline in 1928 as a clerk with the comptroller's department of the Texas Company at its Houston office.

In 1928, Mr. Cocke started in the oil business in 1928 as a clerk with the Tapline and affiliated companies for which he has worked, with headquarters in Ras el-Ara, Saudi Arabia. The occasion was celebrated with a luncheon honoring Mr. Cocke at the Bristol Hotel on August 21. (Photo by Nasr)

Manager of Operations D. T. Pinckney received his 30-year insignia from Executive Vice President W. R. Chandler. The ceremony was celebrated with a luncheon honoring Mr. Pinckney at the Bristol Hotel on August 21. (Photo by Nasr)

NEW YORK — Richard P. Cocke, Vice President, Secretary and Treasurer of the company, completed thirty years of service with Tapline and affiliates on June 18, 1958.

Mr. Cocke started in the oil business in 1928 as a clerk with the comptroller's department of the Texas Company at its Houston office. During the succeeding years, he held a wide variety of accounting and auditing positions relating to activities in all of the major departments of Texaco, both domestic and foreign, including service with the Colombian Petroleum and Overseas Tanker Company.

Before he joined Tapline seven years ago, he was in charge of the Foreign Accounting Department of the Texas Company. He served as secretary, treasurer and comptroller of Tapline until 1958, when he was elected to the Vice President, Secretary, and Treasurer of the company.

Born in Keyeville, Missouri, Mr. Cocke was graduated from Texas A & M College. He, his wife, Mrs. Cocke, and their three children, Richard, 16, Jan, 12, and Marcy, 7, live in North Tarrytown, New York.