Pressure hoses, chemical solvents, brushes and detergents are among the equipment being used to clean up the coastal areas of Lebanon affected by the oil spillage at Sidon in July. The Contracting and Trading Company, engaged by Tapline to carry out the beach-cleaning project, started the clean-up program at Jbeil harbor August 2 with a crew of three of its own technicians and thirteen local fishermen. Clean-up measures were completed there August 12 and started two days later at Tabarja harbor. On August 18, work was begun on the public beaches near Beirut International Airport. (Photo by Issa Bros).

TURAIFF EXPERIMENTS WITH TEACHING MACHINE

At Turaif, Tapline is experimentally using a teaching machine known as Min-Max. Worldwide publicity has been given recently to this method of learning. Many types of machines, or programmed learning, now exist. The machines range from simple paper devices to complex electronic machines of the computer type. The machine being used at Turaif is a manually operated metal viewer which uses a series of printed example papers. Basically, the machine shows the student a brief written explanation of some point, then checks his understanding of it by requiring him to respond—either by filling in a blank or answering a multiple-choice question. The student must answer correctly before he can go on to the next point.

Teaching pace is geared to the individual student's learning ability. He can move ahead as fast, but only as fast, as he masters the material. By prompting and suggesting— all in printed form—the machine helps him come up with the right answer. Once learned, the correct answer is reinforced in the student's mind by repetition in logically constructed steps of the course. Programmers say that learning efficiency increases because the student must participate actively instead of passively.

James Foody, Turaif seventh grader, was the first to use the machine. Without the aid of a teacher, he needed only seventeen minutes to learn how to mentally square two-digit numbers ending in five.

K. E. Parr, Coordinator of Training, plans to use the Min-Max machine in connection with employee development. He presently has spelling, multiplication, and division programs on hand for use on an experimental basis. Any material that can be taught systematically in steps can be fitted to a teaching machine by anyone trained to make the program. Mr. Parr believes the teaching machine idea has great potential in employee training.

OIL CLEAN-UP EFFORT Praised

Tapline has received letters from Jbeil and Tabarja harbor authorities thanking the company for its efforts in cleaning up the coastal areas of Lebanon affected by the oil spillage at Sidon.

Dated August 21, the letter from Tabarja reads: "We, Mubhar of Tabarja, hereby express to you our sincere thanks for the useful work performed by you in our harbor through the removal of the traces of oil from this important port of Tabarja. "While appreciating the efforts displayed by our representatives who have diligently and faithfully supervised the conduct of the operation, we cannot but record our full cooperation with the people of the town and the fine impression left by them here."

The letter from Jbeil reads as follows: "I, the under- (Continued on page 2)
**TEN-YEAR PINS**

**Bahrain**

Mohammad Abdul-Rehman, of Government Relations, was awarded the 15-year pin.

**Qatar**

Essa Kassim Donavi, of Operations and Repairs, was awarded the 15-year pin.

**Saudi Arabia**

Abdul Majid, of Administration and General, was awarded the 15-year pin.

**Tapliners**

Abdul Jalil, of Operations and Repairs, was awarded the 15-year pin.

**Third Arab Oil Congress**

The proposal will be made in a paper to be presented by Dr. Mouaj Attiyah, administrator of Lebanon Industry Institute, at the Congress, independent industrial research, and development organization with interests throughout the Middle East.

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**FULLERTON GETS 15-YEAR AWARD**

Donald Joseph Fullerton, of Operations and Repairs, was awarded the 15-year pin.

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**OPERATIONS REPORT**

Average BPD received at Sidon:
- July 1961: 247,915, 321,126
- August 1961: 248,538, 321,126

Average BPD delivered to ships:
- July 1961: 238,694, 316,896
- August 1961: 238,444, 316,896

**OIL IN THE NEWS**

Middle East Developments:
- Coordination of all Arab petrochemical projects under one super-national organization is proposed at Third Arab Oil Congress in Cairo next October.
- The proposal will be made in a paper to be presented by Dr. Mouaj Attiyah, administrator of Lebanon Industry Institute, at the Congress, independent industrial research, and development organization with interests throughout the Middle East.
- Esso International has posted a price of $2.21 a barrel for Zelten crude at Mersa-el-Brega, effective August 12. This figure is substantially below the posted price for comparable quality Saudi crude at points close to European markets.
- Esso Libya has announced the completion of its 110-mile crude pipeline which runs from the Zeltun Petroleum Field to the Mediterranean. According to the company, a affiliate of Standard OIL Company (New Jersey), said it would take about one month for the pipeline to reach crude petroleum. The 30-inch pipeline will receive about 25,000 barrels of crude per day.
- Facilities for in-line blending of Saudi Arabian crude and products are being put into service at Ras Tanura terminal as an independent Industrial Co., the shipping company, announced.
- A quarterly dividend of 2 cents per share was recently declared by directors of Standard Oil of California in San Francisco. The dividend is payable September 8 to shareholders of record August 10. R. G. Fullon, chairman of the board, reported the company’s net income for the first half was $2.26 a share, compared with $2.30 a share for the first half of 1960. Second quarter net income of $26,000,000 was reported as a share for the same quarter of 1960, Follon disclosed.
Fresh fruits and vegetables are off-loaded from the weekly milkrun at Badanah’s airstrip. Shipments are made to Rafha and Qaisumah on Mondays and to Badanah and Turaif on Wednesdays.

Followed about by a four-legged rascal, a young Lebanese villager picks first-grade peaches from Albert Abela’s gardens in Souk el-Gharb for shipment to Tapline touchscreen stations along the ‘Line.

FROM FARM TO DESERT: Supplying Fresh Fruits and Vegetables To Stations on the ‘Line Is a Major Job

Feeding four Tapline communities in Saudi Arabia is no easy task. Everything from carrots to lettuce, cucumbers, eggs, tomatoes, fruits and flowers has to be ordered, checked and shipped for consumption by the company’s dining facilities as well as for sales to employees and their families.

Housewives in pipeline communities place their orders for fruits and vegetables through the station’s General Services Foreman, who reports these requests to the Purchasing and Traffic Division for consideration.

Tapline purchasing of fruits, vegetables and eggs is not just going out and buying, like a housewife buys her groceries. Effective August 1, a new vendor, Albert Abela, is supplying Tapline every week with 4,500 pounds of fresh vegetables and fruits and 270 dozen eggs from Lebanon for shipment to pump stations in Saudi Arabia.

Harvested early in the morning on Sundays and Tuesdays at the vendor’s own farm, the fruits and vegetables are brought to the packing shelves before noon. In the evening, they are sorted, graded and packed in cellophane paper for shipment on Mondays (to Rafha and Qaisumah) and Wednesdays (to Badanah and Turaif) through the weekly milkrun flights. Orders are trucked directly from the vendor’s packing shed to the plane. Occasionally, a member of the Purchasing and Traffic Division staff accompanies the shipments to pump stations along the ‘Line to inspect the quality of the perishable items upon receipt at the community stores.

The Periscope camera lens this month follows a shipment of eggs, fruits and vegetables from the supplier’s farm in Lebanon to the kitchen of a Badanah housewife. (PHOTOS BY NASR)
Sixteen “Certificates of Promotion” were presented in July to Saudi Arabian tapliners studying English and aviation at the University of Edinburgh, Edinburgh, Scotland. Miss Farah, a Saudi Arabian woman, was promoted to a higher one. She lists reading, swimming, golf, and Avia—

(Continued next page)

Dr. Baroody is grossed for his outstanding achievements. He was Mr. Chaplin, who posed for a photograph at the station before leaving. The couple stayed at the Central Machine Shop, Saudi Arabian Students for President of Operations Walter E. Ritter, who will be heading for school in the United States.

The Haskell Harpens are also in Beirut on holiday biding farewell to their son Gerald, who is returning to the U.S. for school. However, the former Arab woman to earn this degree, Sabah Suleh, also of the Base School, is staying with friends.

Beirut

Talpine Chief Engineer Arthur E. Olson left Beirut for the United States at the end of July to continue his educational leave. Mr. Olson had returned to the United States June 16, after about a year’s absence. During his stay, he got information needed to continue his studies on some analysis and to prepare a report on Talpine’s pressure increase program. He visited his work research on ocean steamer installations and going toward his Master’s degree.

Mr. Douglas Miller, Aramco Counsel, is here from Dhahran on a one-month assignment to assist William A. Robinson Jr., Talpine Chief Engineer — Pipeline Richard R. Bennett, the couple stopped at the Annunciation Church on July 8 for Liaison Engineer Miss Mounira Shikhani. (Construction) Melhem and the former Mrs. Annibal A. Faddoul, under the American Field Services program. He is doing his educational leave. Mrs. Annibal A. Faddoul, Miss Mounira Shikhani. (Construction) Melhem and the former Mrs. Annibal A. Faddoul, under the American Field Services program. He is doing his educational leave.

The Dan Reynolds visited Badanah recently to bid farewell to their many friends at the station before leaving. The couple stayed at the Central Machine Shop, Saudi Arabian Students for President of Operations Walter E. Ritter, who will be heading for school in the United States.

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rite hobbies. He plans to marry within a year and make his home in 'Turaif town.

Radio operator Hindi Sa'doun is in Turaij again after a pleasant trip to Jordan, where he visited his sister, and Lebanon. In Beirut, he was happy to call on the Communications staff, with whom he had talked so often over the radio without having a chance to meet them.

James V. Foody, Coordinator of Employee Relations, returned August 2 from a three-day trip to Dhahran, where he attended labor relations coordinating meetings.

Returning from a trip around the world, His Highness Amir 'Abd al-Aziz ibn Jiluwi, son of the Governor of the Eastern Province, drove down the 'Line in early August from Beirut to Dammam. At Turaij, he was entertained at a banquet given August 1 by His Highness Amir 'Abd Allah ibn 'Abd al-Aziz ibn Mus'ab, Amir of the Northern Frontiers, who was making his annual visit to the Arabian headquarters of the 'Line. Turaij based company officials attended the function.

Two more houses were completed in mid-August and accepted by Saudi Arab Tapliners at Turaij under the Saudi Home Ownership Plan. Twenty-one houses now have been completed at Turaij town under the Plan.

Turaij has had its fair share of problems at Kinderland, formerly of C.E. & I., who left the company August 2 after about seven years of service. Several functions were given in honor of David before his departure, including a party sponsored by the Women's Group.

Clarence P. Booth and family have recently returned from the United States on long vacation. The Henry C. Hensens, John K. Tomlinson and C. E. Hardwick have returned from state-side holidays.

Ahmad H. Sultan to Abdul-ullah Sajjad, on return from leave in Damascus; Khalid Abdul-Karim, on return from holiday in Juhail, Saudi Arabia; Muhammad Takki and family, on return from vacation in Baghdad; and Muhammad Abdul-lah, S. S. Ayish, Ibrahim Saleh, Ahmad Muhammad, Abdullah Bashidjan, Sadek Youssuf, Abdul-Aziz Nasser and Muhammad Abdul-Rahman, on return from trips to Dhahran.

Jirjis Makkafouf and An- toe Hanna are off with their families to Jordan and Syria, respectively.

Congratulations to Abdul-ullah Moshen on his receipt of Saudi Arabian citizenship. Good luck to Dr. Maurice N. Atis, on his transfer to Rada.

The wives of Affif Abdul-ullah and Maurice Naar have arrived in Turaij from Beirut.

Turaij community conveys its deepest sympathy to Sadek and Sukki You- saf, on the recent death of their father in Jordan.

The name of first grader Lynn Pannam as a Turaij honor student was inadvertently omitted from the "School Honor Roll," which appeared in the August issue of Pipeline Periscope. Cindy Lewis, listed as a first grader in the same article, is a grade 4 student at Turaij's Senior Staff School.

**Paul Booth Graduated from Turaij**

A gala dinner party was held at the Community Center in Turaij, July 12, to celebrate the graduation of eighth grader Paul Booth from the station's Senior Staff School, which had seventeen students during the 1969–70 scholastic year. The graduation dinner was attended by the school's teaching staff, classmates of the graduate and his parents, and Training Coordinator Kenneth E. Parr. It was followed by a graduation program at the theater, performed admirably by the graduate's classmates.

Following state-side vacation with his parents and

Paul Booth and daughter Daniella are off to Rome to visit Mra. Bow's parents. Mr. Bow is scheduled to join them later.

Dr. and Mrs. Kamal H. Aoun are planning a trip to Cyprus for their vacation.

Superintendent and Mrs. Dudley P. Harbin have sold for the United States on holiday. Their trip will take them to many interesting spots, including the Suez and Panama Canals.

Rafha families recently were treated to a lovely dinner-dance party, hosted by Adriaan De Raad, Hendrik C. Van Putten and Adrianus Verhoeven. Excellent food and gay decorations of Japanese lanterns and multi-colored streamers added to the success of the event.

Congratulations to Turaij's Qurr-oat Aarek on his marriage in July at Um-Khona.

The newlyweds have set up housekeeping in Rafha town.

Wedding felicitations are also due to Hamdan Zaki, who was married while on leave.

Sa'ud Abdul-Aziz is with us again from long leave, which he spent in Kuwait, Iran, Bahrain, Dhahran and Riyadh.

Vacations are over for Ahmad Hamad and Saleh Sulaiman and they have just started for Minhreif Hamad, Fahd Abdul-Rahman and Othman Warid.

Construction of the first Saudi Home Ownership Plan house at Rafha is expected to start in August. Saudi Arab Tapliner Ahmad Zain of our Dining Room staff, has presented a formal request for construction of such a house through company loan funds.

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**Rafha**

Welcome "home" to Mr. and Mrs. Charles S. Hark and sons Charles, Patrick and Michael.

The Everett E. Robertson family is planning to tour Europe by car before returning to their home in Alabama on long vacation. Mrs. Robert Bowe and