

Expansion in final phase after new startups

Anyone asking the question, "What's up?" around the aromatics department lately was sure to get the same answer. Catalytic reformer no. 1 and the saturates gas plant.

The two units were started up in mid-April. And they are important not only to the people who worked hard, long hours bringing them up.

Representing half of the huge, new hydrocracker complex, the units are vital parts of the refinery's current expansion and modernization program. The hydrocracker complex, which will also include the hydrocracking unit and steam methane reformer when it is completed later this year, will permit the refinery to take better advantage of the increased crude processing capability achieved with the startup of distilling unit no. 2 last June.

CR-1, actually a big brother of the present CR-3 unit, makes platformate, the much-advertised extra-mileage ingredient in Shell's gasolines. After the hydrocracker unit comes on stream with its anticipated feed, CR-1 will be able to increase the amount of platformate the refinery turns out by more than 65 percent.

Starting up a unit like CR-1 involves a lot more than just pushing a "start" button or turning a valve. Preparations began months ago, and included such things as a four-week training class last January for all the operators who will work with the unit.

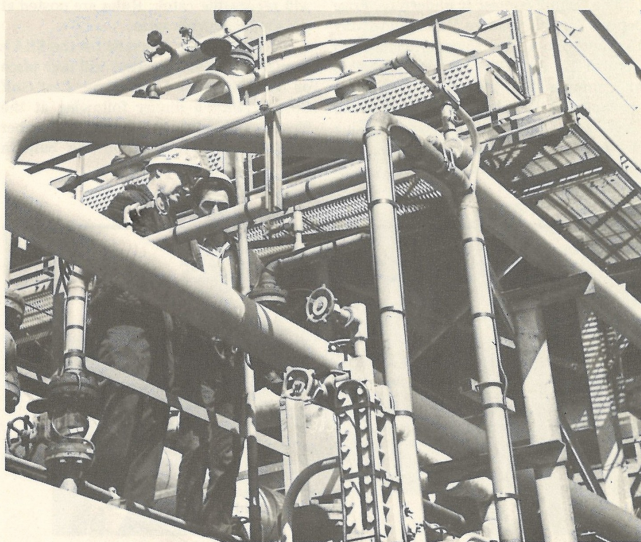
As the scheduled startup time came closer, several weeks of pre-startup operations began. The first step was to dry

the plant out to get rid of the water. This took several days. Next came opening the plant and loading it with a catalyst containing platinum, which required almost a week. It also took about a week to dry the catalyst and refractory in the furnaces. Then, presulfiding the catalyst took another couple of days before feed was cut in. A few minor delays, typical in any major startup, were also encountered during the pre-startup maneuvers.

"CR-1 came right up, essentially without incident," says Ivan Baumgart, staff engineer in charge of the startup. "There were a few instrument problems, but they were certainly minor. We cut in feed at 2:25 Sunday afternoon, April 19, and sent finished reformate to storage about two hours later.

"The sats gas plant has become a more trying experience," Baumgart comments. "There were numerous problems to begin with, but it seems to be lining out since it was put in service April 14."

Ivan is quick to point out that the sats gas plant is not running now as it will be later, in contrast to CR-1. "It's on alternate operation," he says, "and won't operate typically until the rest of the hydrocracker complex is on stream. Only the rectified absorption section has actually been started. The other two sections, the gas treater and the hydrogen purification section, won't be started until it's time to debug them shortly before the steam methane reformer and hydrocracker unit come up."



Leland Berleman and Dean Melm, operators in the aromatics department, line up vent gas from the stabilizer accumulator to the rectified absorber at the sats gas plant.

Baumgart adds praise for the people who brought the units up. "Everyone involved in the operation cooperated to the fullest degree and did a great job," he stresses. "It was a real team effort."

As work begins to bring up the rest of

the hydrocracker complex, the refinery is entering the final phase of its current expansion and modernization program. When the entire complex is in full operation, the ambitious program to increase the refinery's capabilities will have been completed.



Review

Wood River, Illinois

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'500' callers can win cash in new contest

A nimble dialing finger, a good ear, and an alert memory could mean extra pocket money for employees starting the week of May 18.

That's when the refinery's ten safety inspectors will start handing out 100 dollars a week to people who can remember the safety slogan that will be tacked on the end of the regular Instant 500 messages.

Every Monday for six weeks, a new slogan will be aired over the refinery's telephone news service. The following Tuesday through Friday, the inspectors—each carrying a stack of 10 one-dollar bills—will ask people in various areas of the refinery to tell them the current slogan. A correct answer will earn a crisp, new dollar.

The inspectors will keep track of the winners to make sure there are no repeat performers.



Jim Grizzle, safety inspector, displays ten of the \$600 he and other safety inspectors will give away.

New unit another step toward cleaner air

The vent gas compressor facility that was started up April 14 in the distilling department is shiny and new. But the reason it was built isn't.

The new facility is the refinery's most recent effort to keep pollutants out of the air. And concern over the quality of the

local environment is something that was going on at Wood River long before pollution ever became a public issue. Significant strides have been made over the years, without a lot of fanfare, to clean the air, purify the water, and lessen the noise around the refinery.

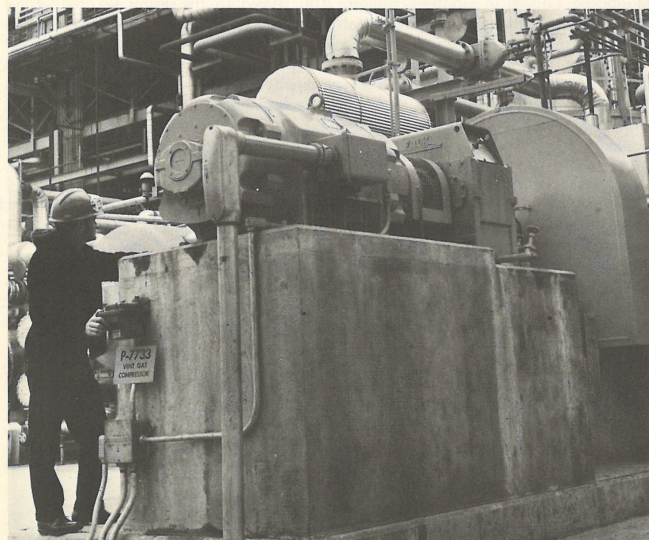
The latest effort to cut down on pollution, the vent gas compressor, totally eliminates one source of sulphur dioxide emissions from the refinery.

The flasher at distilling unit no. 2 produces a gas, high in hydrogen sulphide content, as a byproduct. In the past, this vent gas was burned in the flasher furnaces and converted to sulphur dioxide before being released. With the new facility, the byproduct gas is absorbed in a solvent and piped across Highway 111 to a small plant operated by Anlin Company of Illinois. There, it is processed into elemental sulphur which Anlin then sells to its customers.

The Anlin plant plays a key role in many of the refinery's clean air projects. Gases from a number of process units are sent there. Since the gases go to Anlin instead of being burned at the refinery and converted to sulphur dioxide, emissions of pollutants are reduced a half million pounds a day.

The vent gas compressor is just one example of local efforts in environmental conservation. And local efforts are magnified many times over as part of a company-wide concern over the problem.

Although a lot has been done in the area of environmental conservation, nobody's saying that Wood River or Shell has already completely conquered the problem of pollution. The fight against this serious problem has been and will continue to be an ongoing program here and at other company locations.



Pushing the button on the facility that is helping make Wood River's air cleaner is Dave Rook, operator in the distilling department.

Fishing contest in full swing, golf day coming in SRA events

The fishing contest is underway. Prize periods for this year are March 15 to May 15, May 16 to August 15, and August 16 to October 15. Any SRA member is eligible to compete for the prizes given for catching the largest bluegill, largemouth black bass, or crappie. Employees wishing to enter a fish in the contest should bring it to the main gate where one of the guards

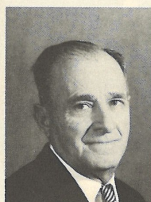
will record the catch. Rules are posted at the south and main gates.

Plans are being finalized for the SRA's annual golf day. The event will take place on Saturday, June 13, at Clover Leaf Golf Course, with a dinner following at the Moonlight Restaurant in Alton. Further details will be posted on the bulletin boards.

Retirements



Edward Burns
Engineering field



Gilbert Freezeland
Engineering field



Hap Parrish
Dispatching



Ivan Stull
Utilities

Statistics

Births

To Willie and Katherine Boyd, Kimberley Shalon, March 14. Willie is a laborer in the engineering field department.

To Joe and Fran Fin, Brian Patrick, March 13. Joe is a carpenter in the engineering field department.

To Russ and Aileen Leggett, Rodney Keith, March 30. Russ is a clerk in the economics and scheduling department.

Marriages

Jerald Small and Margaret Adams were married March 21 at the Oakwood Church of Christ in Alton, Illinois. Jerald is an operator in the compounding department.

Billie Jacobs and Donna Kay Stayton were married April 11 at St. Paul's Church of Christ in Carlinville, Illinois. Billie is a tester in the refinery laboratory.

Deaths

C. E. Ash, retiree, April 12. Ash was a carpenter foreman in the engineering field department before retiring in February 1946.

A. L. Darr, on military leave with the U.S. Army, March 12. Darr, who was an operator helper in the aromatics department for about a year before joining the Army in July 1969, was killed in a plane crash 35 miles east of Saigon.

N. L. Probst, operator in the catalytic cracking department, April 17. Probst had been employed at the refinery since 1936.

R. C. Roberts, retired manager of the Wood River refinery, March 31. Roberts was refinery manager during World War II and retired in June 1946.

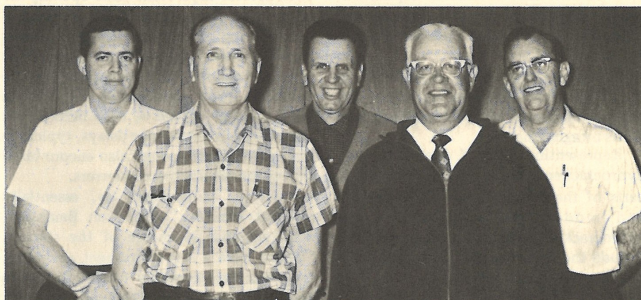
A. E. Sandbach, retiree, March 16. Sandbach was a valve repairer in the engineering field department before retiring in February 1962.

On the move

Don Harker has been transferred to Wood River from the Chicago Data Center. His initial assignment will be in the general accounting section of the treasury department.

Dave Richardson, manager of the advanced products department in the research laboratory, has been named manager of economics in the operations department in the head office manufacturing organization, effective June 1.

News in review



Event winners in the fifteenth annual SRA bowling tournament recently posed for the REVIEW's camera. The are (front row) **Jess Grover**, foreman, and **Lauren Weishaupt**, supervisor, both of the engineering field department; (back row) **Bob McDonough**, operator in the distilling department, **Wimp Davis**, supervisor in the engineering field department, and **Rodney McNeilly**, special tester in the refinery laboratory. Missing from the picture is **George Townzen**, one of the refinery's retirees who participated in the tournament. Davis won the singles with a 709 handicap score and also teamed with Weishaupt and Grover to roll a 1924 and capture the three-man event. Townzen and McNeilly took the doubles with 1293. McDonough finished well on top in the all events category with a scratch 1987, the highest in tournament history. He had a 667 in the singles, a 615 in the doubles, and a big 705 series in the three-man event.

Mel Rogers, carpenter in the engineering field department, recently saw the fulfillment of his four years of hard work as chairman of the building committee for the Delhi Baptist Church in Delhi, Illinois, when the church was dedicated. Mel pressed his literary talents into service for the occasion, writing a poem on the history of the building project.

Arthur Cunningham was recently added to the ranks of REVIEW reporters in the engineering field department. Arthur will cover stories about his fellow truck drivers.

George Myers, operator in the catalytic cracking department, was recently appointed chairman of the Wood River Hospital board.

The Alton-Wood River Chapter of the American Red Cross recently announced that **Jack Creekmore**, supervisor in the engineering field department, is now a member of the two-gallon club in their blood donor program.

During March, the benzene extraction unit in the alkylation department set a continuous record for benzene production.

Proud parents abound at the Wood River refinery. **Ramona Baker**, daughter of **Jim Baker**, operator in the dispatching department, was recently named to the dean's list at Monticello College in Godfrey, Illinois. Also named to the dean's list, but at the University of Illinois, was **Kent Books**, son of **Les Books**, senior engineer in the engineering services department. **Louie Pfeifer**, tinner in the engineering field department, has been displaying a press release announcing that his son, **Bill**, was promoted to group supervisor at Bobcock and Wilcox Alliance Research Center in Barberton, Ohio. Bill received an M.S. in mechanical engineering from Washington University in St. Louis in 1965.

The April 1970 issue of POPULAR SCIENCE features the MILEAGE MARATHON® conducted every year at the research laboratory in an article titled, "Tricks You Can Use To Save Gas."

Three Shell vice presidents recently paid visits to the Wood River refinery and research laboratory. **Arlie Foster**, vice president of public affairs, is shown during a tour of the research laboratory before he gave a talk on Shell's public relations program for 1970. **Bob Hart**, executive vice president of MTM, and **Harry Walker**, vice president of manufacturing, were the other two executive visitors.



Review

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Published monthly for the employees and pensioners of Shell Oil Company's Wood River refinery and research laboratory.

Bill Chott, editor

Era approaches an end with razing of Dubbs 18 site

A 50-year era in refinery processing at Wood River came one step closer to an end March 16 when workers began razing the old Dubbs 18 thermal-cracking unit.

Ever since a man with the incredible name of Carbon Petroleum Dubbs introduced his first two commercial cracking units here at Wood River in the 1920's, Dubbs units have been a familiar sight. In the history of the refinery, there has been a total of 18 units dubbed Dubbs. With the elimination of Dubbs 18, only one such unit is left still operating.

Dubbs 18 has had an interesting history. Built about 30 years ago, it served as a visbreaker and coker in its early days during World War II. After the war, it was used temporarily as a distilling unit and then saw several other uses. During the early 1960's, it functioned as a cat-cracked gasoline splitter, providing a high-octane gasoline component for SUPER SHELL*

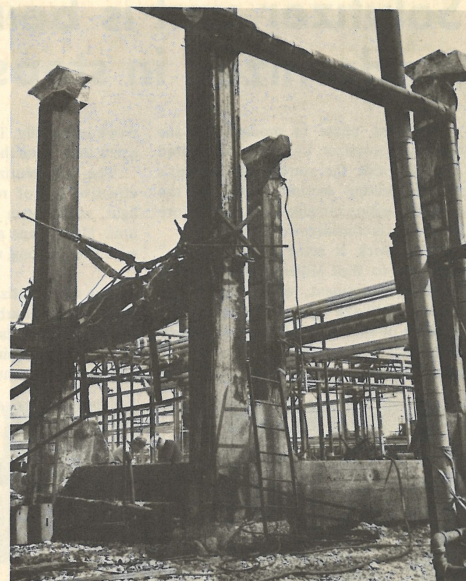
*Trademark, Shell Oil Company

before the platformers were put in operation. Most recently, it reverted to its original use as a visbreaker, basically making fuel oil.

During the past several years, Dubbs 18 had operated only periodically. It was always shut down during summer because its feed stock was channeled to the asphalt plant during the peak of the asphalt season.

So, when something had to be cleared to make room for the new visbreaker unit, which is now under construction, aging Dubbs 18 was a logical choice. The new visbreaker, when completed, will take over the retired unit's old functions.

Dubbs 17, currently being used as a visbreaker, now stands as the last monument to the Dubbs era—an era almost as old as the refinery itself. And it's still not over. Quite a tribute to Mr. Carbon Petroleum Dubbs.



Workers in the process of tearing down the last of Dubbs 18's furnaces.

Deadline for desk diary orders is near

Hundreds of employees who wanted a Shell desk diary came up empty-handed last year. They ordered late. But more than 500 advance orders for the 1971 diary indicate that employees don't intend to be denied again. Deadline for ordering the new edition is June 15.

Employees may purchase the diary for \$1.50, which includes handling and postage. Shell credit card customers will have to pay a dollar more.

The 1971 diary will continue a seashell theme in color.

Requests for the new diary will be filled in November. Orders can be sent to F.H. Roberts, Shell Oil Company, Public Relations, 640 5th Ave., New York, N.Y., 10019.

Shell's Wonderful World of Golf leaves the air

Shell's Wonderful World of Golf is being retired from television—but not from public view.

Films of many of the 94 matches which appeared on television over nine consecutive seasons beginning in 1962 will continue to be available for group showings from the Shell Film Library.

The Emmy Award-winning series, which made vicarious world travelers out of millions of viewers and better golfers of others, became a vastly successful classic in its field. Why is it being taken off the air?

Times and Shell have changed. "We feel that the business and social climates have changed significantly since the show was conceived, and that our needs as to what to communicate and to whom it should be communicated have also changed," said Arlie Foster, Shell's vice president of public affairs, recently.

"For example," he added, "Shell is concerned about protecting the environment and about improving the lives

of minority groups in urban areas. We want to say something about our concern and what we are doing about it. We especially want to reach people who worry about the same things, and we want to keep the communication open year-round."

By its nature, the golf show didn't meet these needs. Confined to three months of the year, and finally to two, its flavor was suited to a different message. It didn't effectively reach young people or minority groups. And it was expensive—about \$2 million a year.

Shell's upcoming corporate advertising campaign is being designed to accomplish the company's new communications objectives. But obviously Shell's Wonderful World of Golf will be missed.

About ten million people watched each telecast. Sportswriters and television critics serenaded the golf play and travelogs in their columns. The show offered a lot to comment on. It combined intimate shots of competitive play

featuring the world's best golfers with advice to viewers on how to improve their games from hosts Gene Sarazen and Jimmy Demaret. It provided viewers with tours of colorful golf courses and scenery from Hong Kong to Rio de Janeiro and Rome.

Contestants' names were often as colorful as the countryside. Over the years, they included Chen Ching-po, Chi-Chi Rodriguez, Friedel Schmaderer, Döw Finsterwald, and Flory Van Donck. On the roster of players were many of the sport's legendary names: Ben Hogan, Sam Snead, Arnold Palmer and Jack Nicklaus. A letter to the Shell Film Library will bring them back again.

A brochure listing golf matches available can be obtained at the employee relations and public relations offices.

Orders for 16-mm sound films of each match should include a show date and may be addressed to the Shell Film Library, 450 N. Meridian Street, Indianapolis, Indiana, 46204.

Rescue breathing first aid can prevent summertime catastrophes

Vacation time is almost here. Soon, people will be engaging in all sorts of activities that will put a lot of stress on their bodies. So now is a good time to reflect on how well we are able to take care of ourselves, and how much we know about first aid—especially rescue breathing.

Rescue breathing is artificial respiration either by manual means or the mouth-to-mouth method now recognized as the best technique.

Here are the most commonly asked questions about artificial respiration, together with some answers that could help you save a life this summer.

Who needs artificial respiration?

Breathing is usually interrupted when persons are victims of such incidents as drowning, inhalation of certain gases, electric shock, lack of oxygen, or overdoses of drugs. In these cases, the heart continues to function for several minutes. If oxygen can be supplied while heart action continues, life may be restored. Artificial respiration causes the victim's lungs to begin supplying oxygen to his blood.

When do you start?

Start as soon as possible! Speed is all

important. Remember that the heart beat won't last long.

How can exhaled air from one person help a non-breathing person?

The answer is that we inhale much more oxygen than we actually use—enough to supply the need of a person who is not breathing.

In case of drowning, what about emptying water from the lungs?

Don't spend valuable time trying to force water from the lungs. The amount of water in the lungs won't be enough to cause trouble.

What are the steps in mouth-to-mouth resuscitation?

1. Lay the victim on his back.
2. Remove any foreign material from his mouth—for example, tobacco, gum, dentures.
3. Keep his head tilted backward and his lower jaw pulled forward. This keeps the windpipe in a straight line and will help keep the tongue from blocking the windpipe opening.
4. Place your thumb in the victim's mouth and your fingers under his lower jaw, then pull up on the jaw. Keep this position.
5. Cover the victim's mouth with yours and pinch his nostrils closed with your free

hand. Exhale into the victim until you see his chest rise. Then remove your mouth from his, inhale, and start the procedure again.

6. Repeat the cycle about 12 times a minute for adults and 20 times for children until they are revived. In the case of small children, it may be easier to place your mouth over both the nose and mouth

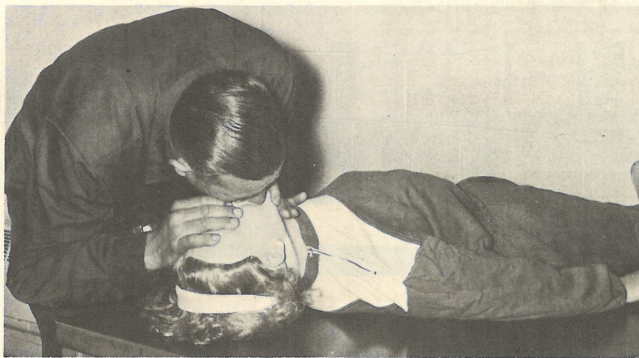
instead of pinching the nostrils.

7. If another person is around, send him for a doctor or an ambulance.

8. Try to keep the victim's body temperature stable by covering him with blankets or coats.

9. Keep a close watch on the victim after he is revived.

RED BAIRD, SAFETY SUPERVISOR



Mouth-to-mouth resuscitation is demonstrated by Ken Darte, safety inspector, using "Resusci-Anne", the safety department's demonstration dummy.

Solutizer unit is being modernized in steps

The first phase in modernizing the refinery's solutizer unit was completed April 17 with the startup of the unit's gasoline-treating section. Work on the stripping section remains to be done before the project is considered complete.

"The work is being done in steps," according to Walt Miller, manager of the distilling department, where the unit is located. "We're maintaining operations on some of the old equipment while new equipment is being built around it," he adds. "All the old pumphouses will be torn

down eventually. The whole area will have a new look when the job is finished."

The new solutizer unit will do a more effective job of reducing mercaptans in light, straight-run gasoline than the old unit. Mercaptans are sulphur compounds with a very strong, unpleasant odor.

The new solutizer will not only remove more of the troublesome compounds, it will accomplish its task at the higher feed rates that are required as the throughput of the refinery continues to increase.



Starting the gasoline pump at the new solutizer unit is Bill Andreus, operator in the distilling department.

Retirees urged to become self-appointed 'Review' reporters

Retirees who responded to the employee communications survey last year indicated a strong desire to see more news about their fellow pensioners in the *Review*.

Since retirees make up over a fourth of the paper's readership, with over 1,000 receiving the publication each month, the *Review* stands ready to publish as much news about such former Shell employees as possible. Just how much is largely up to the retirees themselves.

News about active employees is relatively easy to come by. They are at the refinery every day. But stories about retirees generally reach the paper only when pensioners themselves take the initiative.

So, all retirees are invited to appoint themselves official *Review* reporters. Any retired employee with a news item about himself or another pensioner should write or call Bill Chott, editor of the *Review*.

The address is *Shell Review*, P.O. Box 262, Wood River, Ill., 62095. The number to call is 254-7371, Extension 171.

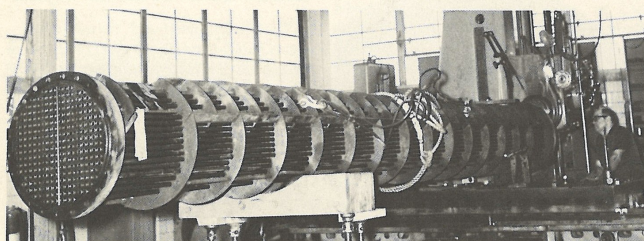
A special retiree's column will be established if enough news items are received each month.

Film explains conversion of crude

A new Shell film takes the mystery out of refining.

"Refinery Processes" is a basic introduction to the chemistry of refining crude oil into petroleum products.

The 16-mm, 20-minute color film is recommended for school and general audiences. It is available on request from the Shell film library, 450 N. Meridian St., Indianapolis, Ind. 46204.



A big bundle

Vince Filardo, machinist in the engineering field department, modifies the gasket surfaces on a 20-foot-long heat exchanger tube bundle from distilling unit no. 2 on a milling machine. The bundle is one of the longest the machine shop has ever worked on. The normal length of such a bundle is about 15 feet.

Service anniversaries



Merle Young
Dispatching
40 years



Bake Baker
Engineering field
30 years



Frank Been
Dispatching
30 years



John Foote
Refinery laboratory
30 years



Robby Robinson
Engineering field
30 years



Glen Lash
Distilling
25 years



Carl Legate
Research laboratory
25 years

Classified ads

FOR SALE

Two-bedroom house in North Alton. Neat and clean. Basement and garage. Good location. Owner leaving state. C. R. Arnold, 466-5463.

Fourteen-inch Ford wheel and tire. Thirteen-inch wheel and tire for Chevy II. W.H. White, 656-2843.

Girl's size 6X-7 ankle-length, lace-over-satin, flower-girl dress. \$10. Don Smith, 656-0045.

Seven aluminum storm windows, 34 x 54 inches. Three storm windows, 30 x 38 inches. Screens for all. Perry Pomatto, 462-6660.

All-modern cottage, 10 years old. Two bedrooms, fireplace, large screened porch, electricity, city water, natural gas available. Riverfront lot on Route 100 at beach at Kampsville, Ill. Also, seven-piece solid oak, round dining table and chairs. Over 100 years old, in perfect condition. L. W. Crossman, 254-4997.

1968 Opel Kadett RS. 17,000 miles. \$1,400. Good condition. B. Jacobs, 836-3281.

Two and one-fourth acres, two miles east of Fosterburg. \$3,900. Marcia Patton, 254-3284.

1965-66 trailer hitch. \$5. J. Grizzle, 259-0258.

Four International Drag Master Mags, 14 inches, \$100. One Sun transistor tack, \$40. Pam Handshy, 656-8039.

1959 Chevrolet half-ton with Powers utility bed. Six-cylinder, standard shift, radio. Good mechanically, fair body, real good tires. \$225. J. Schneider, 466-5960, after 5 p.m.

1963 Pontiac Catalina sedan. Power steering, power brakes, with two-year-old MK-IV air conditioner. \$575. R. F. Wilson, 254-4820.

FOR RENT

Trailer spots available in Missouri Ozarks between Black and St. Francis Rivers near Clearwater Lake. Russell Lewis, 259-1358.

WANTED

Used wheelbarrow. J. J. Heithaus, (314) 838-4765.

Articles for garage sale sponsored for Explorer Post. J. Spaulding, 462-0171.

Used 14-foot boat trailer. Larry Ray, 377-6507.

SHELL OIL COMPANY
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Wood River, Illinois
62095

May 70

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