CHALLENGER ESSEX HANGS UP RECORDS

Amazing Speed of 66 Miles Made on Difficult Dirt Course

Sharing in the glory of an Essex the Challenger stock sedan which hung up an amazing record when it was driven continuously for 18 hours at an average speed of 66.86 miles per hour over a difficult dirt course, Vcedol Motor oil proved once more its reliability and efficiency under the most gruelling of conditions.

The course which the car traveled was a measured five mile one, level and unbanked, in Muroc When B. Kataoka with a fast bi-Dry Lake in the midst of the Cal- plane won the Imperial Coronaifornia Mojave desert. The run- tion air races in Japan recently ning distance of 1,203 miles was his plane was powered with covered partly in broiling sun and American-made Richfield gasoline, according to news from Japartly in a wind which at times mounted to a veritable gale.

"The run was made with the in- B. Kataeka, Y. Kokoyama, Y. Tatention of breaking the only kemura, Y. Baba and S. Toril. known authentic speed record The Japanese lettering in upper ever made by a stock sedan listing right is from the official program under \$1000 on a 1900 mile and is translated — "Richfield course," says Paul J. Feely, who Gasoline of Power." Richfield conducted the run. "The Essex, gasoline, formerly distributed al-Veedol lubricated, came through Coast, has now become national with mileage and speed records and international, with distribuwhich surpassed the old records tion in the Orient, Antipodes, of 60 miles per hour for exactly Canada, and the eastern part of 1000 miles by a margin that has the United States. set motordom agog.

"No car in the same price class, as Essex, as far as it known, has Dyer Ranks High ever been able to maintain anywhere near the speed of 66.86 miles per hour," continued Ecely. "The most reliable and efficient lubrication being vital in protecting the speeding motor from overheating, Veedol motor oil was se-

TURNOVER LARGE A' ENGLEWOOD SCHOOL

A 54.7 per cent turnover in the student body of Englewood school was made for the year just closed, according to the annual report of Principal Lyle Murray just submitted to the city super- Oregon Net Men intendent. Just 362 pupils were enrolled, of whom 132 were new and 66 dropped.

Twenty children made perfect attendance records and but five failed to pass the posture tests, with 101 on the honor roll, the

year's review shows. Students purchased with paper drive funds a projectascope; they Harrison, University of Oregon, in were observed by the pupils; and three straight sets, 6-3, 6-4, 6-3. several projects, included a major one in forestry, were carried heavy favorite to beat Barnes. to successful conclusions. Miss Madaline Heckman and the third grade pupils sponsored and presented a play, proceeds from by Berkeley Bel! of the University which were used for the park swings and equipment.

Richfield Gas Helps Make Mark



most exclusively on the Pacific Young Engineer's Needs As Saleman Of

worth goggles, 2 step plates.

Much Insurance Hawkins and Roberts, was the cessories to buy for them, would socket wrench set, pedal pads, loweighth best seller in a field of have been surprised had they seen 1500 insurance writers for the a new model car in the popular month of April, according to reprice class which was recently port just received from the home equipped with accessories by the office of the Missouri State In-Western Auto Supply company. surance company which he represents. In other words, Dyer "A young mining engineer from placed eighth in the list of indiridual sales for the entire country. He has been in the business for

pan. Top photo shows, left to

right, the winners of the event-

Are Eliminated

South America came into one of our stores recently and asked a salesman to help him select equip-18 years. He will leave here June ment for his car that would add 14 for St. Louis, home office of to his safety and comfort on a the company, to attend a national cross country trip," says Mr. meeting as a guest of the com-Clarke, local Western Auto manpany for his salesmanship record. ager. "Ite mafter item was selected for the new car and before the sale was completed a total of \$577.00 worth of accessories were installed on the car."

"Equipment for the car includ-

In Texas Meet ed: Aurora Radiator ornament, 2 fender mirrors, sport trunk and trunk rack, oil gauge, Broadway SAN ANTONIO, Tex., June 7bumpers, 2 fender wells, Zapon, AP) -Bruce Barnes, University of Texas, eliminated Bradshaw paint and brush, carburetor, ash receiver, Waltham clock, 4 Polson also donated \$20 to the communione of the Texas state open tourn- Puncture sealing inner tubes. 1 ity park for swings. Six "weeks" ament big tennis upsets today in Western Giant tire, 1 wire wheel, locking gas tank cap, radiator cap, Before the match Harrison was a aeroplane radiator ornment, tire cover, ventilator glass, accelerator The Oregon doubles team comrest, starter extension, steering posed of Harrison and Captain wheel grip. Wedford cushion, cer-Serman Lockwood was eliminated tificate holder, 4 Pro-tex-a-car, 2 of Texas and White in a four-set license frames, 2 booster plates, 2 tire locks, 2 hub caps, 2 chrome match, 6-3, 6-4, 2-6, 6-0.

(Continued from Page 15.) thoroughly perforated before bottom of the well after hammer- ratio would be desirable either wells can usually be drilled by al- ated casing may be placed in the sand bucket. Where only a fair the surrounding it lined with grayield is obtained, two such wells vel. in different corners of the pit may be installed and connected to the . The horizontal centrifugal pump pump by means of a double suc- is most suitable for handling large tion pipe. This should lessen the quantities of water at moderate amount of draw-down or lowering lifts where there is but little the actual power required to perof the water plane when pumping. fluctuation in the water table. The form the work should be provided. The suction lift with centrifugal centrifugal pump with a horizon- Moreover, it is desirable to have pumps should be as small as pos- tal shaft can be mounted or supsible and should not exceed 10 or ported better than the vertical 12 feet at the most. The pump shaft type. High grade centrifuwill therefore need to be placed gal pumps are constructed with close to the water table.

The Stove Pipe Type fluctuation in the water table, it force of the water. Bearings are would seem desirable to install a largely water cooled. stove pipe type of well. Such wells | Suction and discharge pipes as to give the highest possible ef-

A careful log of the strata en- eration. countered in digging the well The pump should be set on a of water may injure the quality of Automobile owners who believe plate wind wings, 2 wind wing should be kept and the stove pipe foundation sufficiently heavy to soil and result in failure even in that new cars are coming through mirrors, 2 Keytainers, Upcyl oiler, casing can then be slitted, so as hold it against belt strain, weight arid climates. Water should be so completely equipped that there Pyrene fire extinguisher, Jumbo to thoroughly perforate it through of pipes, and vibration. Threaded carefully measured and skilfully

boy canteen, pair of gloves, Wells- carries considerable quick-sand or place with a wooden template at laterals as nearly water tight as other fine material, a patent well the proper location to receive the practicable. Frequently it will be

strainer may be required of suffi- pump. Nuts are run down on clent area to admit the water these bolts to a level plane as de- crete, wood, or metal pipes for latwithout excessive velocity. Patent termined with a carpenter's level, erals for the distribution of pumpstrainers are of amalgum or com-position metal that will not cor-tion has set. Rich cement is then rode, and the openings are made in a metal screen gauge or slit-ted screen cut from the inside so ted screen cut from the inside so the pump is bolted down. that sand grains starting through will not lodge in the openings in the screen. The area of strainer driving and the lower end should openings should be at least 12 tory where it can be obtained, albe plugged with a short piece of times the area of the diameter of perforated casing dropped to the the suction pipe, and twice this

ing the piece together to form a with the strainer or perforated point at the lower end. Such well casing. A strainer or perfor- quired, a horse power will lift a is dry enough to crumble to form ternately using a churn drill and center of a large well in sand, and

split casings to facilitate cleaning and with double suction to Where there is considerable reduce friction and to balance the

are ordinarily made 12 to 24 in- must be air tight, and to reduce ficiency. Piping should be arranches in diameter and lined with friction would be 35 to 50 per ged to reduce friction to a mini-10 to 1 gage casing which is in- cent greater in diameter than mum and to discharge the water serted in small lengths and rivet- the pump. Few turns should be at the lowest practicable elevaed together at the joints as the used, and those necessary should tion. It is poor economy to have a digging proceeds. Hollow tools be of large radius. Pipes should plant so small that the irrigating are used in digging such wells. be mounted to avoid undue strain stream will not cover the land to Sometimes lighter gage casing is on the pump. A check valve be watered in a reasonable time. employed and put in so as to should be placed above the pump Where cheap storage can be probreak joints and provide two in the discharge pipe to close the vided and the water reservoired at thicknesses of the material. This discharge pipe for producing a night, a lower first cost per acre type of well requires a deep well vacuum for priming. A globe can be realized. Shelter and good turbine pump and can be used valve placed between the pitcher care of pumping machinery is necwhere there is considerable fluc- pump and the pump casing will esary to maintain its efficiency. tuation in the height of the wat- be used to close this priming line air tight when the pump is in op-

anchor bolts should be set in the applied to land that has been lev-Where a water bearing stratum concrete foundation and held in elled to a uniform slope and with

The Best Power

a little extra power, since the draw down in the dry season may neighborhood.

Efficient Design Needed the valley have been installed so Livestock show at Union, Careful use of pumped water is

necessary if the greatest profits are to be realized. Excessive use

desirable to use under ground coned water. To distribute water from hydrants along the pipe line, portable canvass hose or light slip joint metal pipe may be used. The latter is preferable. Small furrows or corrugations for distributing water on a field may be nec-Electric power is most satisfac- essary where the stream used is though a Diesel engine offers a four feet apart and 220 to 440 fairly economical source of power feet long, being shorter on sandy for those not situated near power soils. Cultivation should be given lines. In calculating the power re- as soon after irrigation as the soil cubic foot of water eight and a mulch; to prevent baking and to third feet per second and is call- kill weed seedlings that may be ed a water horse power. If the started by the irrigation. Oregon lift, including friction head, were Experiment Station Bulletin No. 25 feet, three theoretical horse 235 entitled, "The Economic Limpower would be required to delivit of Pumping for Irrigation" reer a cubic foot per second. Since porting 20 years studies of supplepumping plant efficiency may not mental irrigation can be secured be more than 50 per cent, twice from the experiment station upon

PATTERSON BACK

Governor Patterson returned become greater in certain years or here Friday from La Grande, with general pumping in the where he participated in the program attending the dedication of the new state normal school. He Few small pumping plants in also attended the Eastern Gregon

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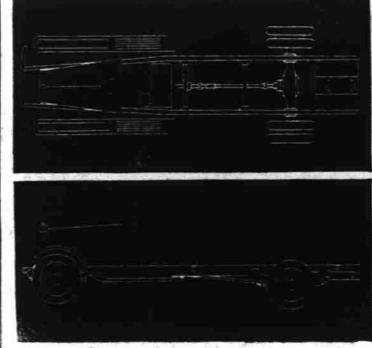
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