

February 4, 1958

Dr. E. N. Goddard  
University of Michigan  
Department of Geology  
Ann Arbor, Michigan

Dear Dr. Goddard:

In response to your letter of January 22, 1958, I have hastened to assemble all corrections for the geologic Map of North America. Here are the corrections listed from North to South:

- (1) Relocate boundary between  $E_m^1$  and  $E_m^2$  south of Texarkana. This boundary stays south of the Sulphur River.
- (2) Relocate boundary between  $K_u^3$  and  $E_m^1$  east of Greenville. The line goes farther northeastward on the south side of the curved fault shown.
- (3) Outlier of  $K_u$ , not of  $E_m$  on Steen salt dome north of Tyler.
- (4) Eliminate boundary line between  $E_m^1$  and  $F_m$  on Sabine River and in Louisiana from near Vivian to near Natchitoches. All this area between the Red River and the Sabine River around Shreveport and Mansfield is  $E_m$ .
- (5) Boggy Creek salt dome, on the Neches River west of Jacksonville, has inlier of  $E_m$ , not of  $K_u$ ; so label it " $E_m$ ".
- (6) Four inliers of Cretaceous must be shown on these Salt domes:

(a) Keeshi dome, northwest of Palestine	$E_m$
(b) Palestine dome, west-southwest of Palestine	$K_l$
(c) Butler dome, east of Teague	$K_u$
(d) Marquez dome, straight east of Merlin	$K_u$
- (7) The  $M_m$ , the  $M_o$ , the  $P_o$ , and the  $Q_o$  have all been redrawn completely. They were very badly botched. The  $M_m$  is the Catahoula as explained on legend of Map, although of course the Catahoula in Texas is continental on the surface. The remainder of the Miocene is continental and cannot be divided successfully. The Pliocene is entirely continental. The Quaternary is very largely continental, except for the ancient deltaic distributaries and lagoons very near the coast, so it is best designated  $Q_o$ .
- (8) Please note  $E_m^2$  inlier on Clay Creek Salt dome west of Navasota.
- (9) Please note  $M_m^1$  outlier on Hackley salt dome west of Houston.
- (10) The three towns Pelly, Goose Creek, and Baytown have all united now and the new combined city is called Baytown. So eliminate Pelly and the circle that shows its location and change "Goose Creek" to "Baytown."

- (11) Add two faults between Floresville and Karnes City.
- (12) Eliminate the village of Gardendale, southwest of San Antonio; it is too small and unimportant.
- (13) Add Port Lavaca on Matagorda Bay; it is a sizable town.
- (14) Add submarine inlier of <sup>2</sup>Mm on Stetson Bank in Gulf of Mexico. This is a rather important feature.
- (15) Add Falcon Reservoir on Rio Grande.
- (16) Qm of first edition was correctly outlined, but should be labeled Qs; it is continental and volcanic in Texas.

I hope the geology of Louisiana is being thoroughly checked; for what is showing on the inclosed proof sheet is rather disturbingly incorrect. May I suggest that you confer with Clarence G. Durhan at Louisiana State University. He is probably the man most familiar with the local geology.

With best regards

Sincerely,

Dr. H. B. Steepzel  
SHELL OIL CO.  
3836 Bellaire Blvd.  
Houston 25, Texas.

2 Inclosures.