Table 1.--Mesozoic stratigraphy of the Ordos (Shaanganning) Basin, China (after Institute of Geology, Chinese Academy of Geological Sciences, 1980; Han and Yang, 1980; Huang Difan and others, 1981; and Wuhan College of Geology, 1981)

Era	System  Cretaceous	Series	Gı		ormation ember	Thickness in meters	Description		Group, Formation, and Hember						
						(m) <sup>2</sup>				Coal Deposits (Non and Yang, 1980	011 and Gas Deposits (Musng and others, 1981)			Series	
		Late Cretaceous	Tegaimiao Formation			n.a.1	Mudstone, siltstone, and sandstone. In the upper part, orange-red, orange-brown, silty mudstone, interbedded with light-orange-red siltstone, containing protoceratops ap. In the lower part, orange-red, yellowish-pink, feldspathic, and coarse-grained aandstone.								Late Cretaceou
		Early Cretaceous	Zhidan Group		Seventh Member 226  Sixth 539  Member 376  Fifth 376  Member 933  Third Members Second 392  Member 392	226	Sandstone, mudstone, and coal. Grayish-white, yellowish- green sandstone, intercalated with reddish-brown, dark gray silty mudstone and thin coal. Abundant plant fossile		Zhidan Group	Seventh Member	Fluvial and lake depositional lithofacies. Thin			C	Early Cretaced
						539	Mudstone, sandstone, and conglowerate. In the upper part, varied-color, sandy mudstone, interbedded with limestone, sandstone, and congloweratic sandstone. In the lower part, yellowish-green feldspsthic sandstone, conglowerate, and breccia. Limestone is fossiliferous.  Mudstone snd sandstone. In the upper part, purplish-red intercalated with sandstone. In the middle and lower parts, purplish-red, orange-red, orangish-yellow, and feldspathic sandstone, containing reptile fauna.  Sandstone. Yellowish-green, grayish-green, feldspathic sandstone, intercalated with mudstone and detrital volcanic materials with fauna.			Sixth Member  depositions  lithofacies  Fifth Member					
						376									
						933									
						392	Mudstone, sandstone, and conglomerate. In the upper part, purplish-red conglomerate, intercalated with mudstone and containing pollen spores and conchoatracan fossils. In the lower part, interlayers of dark red to purplish-red mudstone, siltstone, and sandstone, containing detrital volcanic materials.			Second Member Seventh					
					First Member	0-65	Conglomerate. Purplish-gray.			First Member	Member.				
	Jurassic	Late Jurassic										Anding and Zhiluo For Dominantly lake depos		•	Late Juraaa
		Middle Jurassic		Anding		20-142	Shale, oil-shale, marl, and sandstone. In the upper part, grayish-yellow snd pink marl, grading downward into the lower black to grayish-black oil-shale, shale, and calcar eous sandstone interlayers with scattered pyrite. Regionally lithologic varistion is distinct. Abundant fossils.			Anding Formation. 48-142 m. Chiefly lake deposits, containing oil-ahale in the south of the basin.  Zhiluo Formation. 90-500 m. Fluvial and lake deposits, containing mineable coal beds in the northwest of basin.					Middl Juraas
				Zhiluo Formation		90-500	Mudstone, siltstone, and sandstone. Yellowish-green, grayish-green, and purplish-red mudstone and siltstone interlayers grading downward into yellowish-green and grafeldspathic sandstone, grayiah-green and dark purple mudstone and silty mudstone, intercalated with basal conglosseratic sandstone. Faunal assemblages consist of pollen an spores, and plant remains. Locally coal beds.					Yanan Formation. 120-410 m. Dominantly lake deposits.  Fuxian Formation. 120-150 m.			
					Zaoyuan Member	200-300	Sandstone, mudstone, shale, and oil-shale. Gray to gray- ish-green sandstone, interbedded with grayish-black to dark-gray, fossiliferous shale, mudstone, and oil-shale. Containing mineable coal.			Yanan Formation. 150-296 m. Subdivided into 4 members. The fourth member is missing in the southwest of the basin. The first member, equivalent to Baotashan Sandstone Member, containing mineable coal and oil-shale. The remaining members, equivalent to Zaoyuan Member, also containing mineable coal and oil-shale. Chiefly lake depositional lithofacies.  Fuxian Formation. 15-140 m. Fluvial and lake deposits and locally thin coal and oil-shale.					Middi Jurasi to
				Yanan For	Baotashan Sandstone Member		Sendstone, siltstone, and shale. Grayish-white, yellowish gray, yellowish-pink, fine- to coarse-grained sandstone intercalated with grayish-black clayey siltstone and shal grading downward into s basal conglomerate. Containing coal and oil-shale.								Early Jurasi
		Early Jurassic		Fuxian		15-100	Mudstone, shale, sandstone, and conglowerate. Purplish-re mudstone, intercalated with sandstone and some marl and concretions; grading upward into grayish-green sandstone and shale interbeds. Locally containing coal beds, oil-shale, basal congloweratic sandstone and conglowerate.	d E						•	Earl Juras
	Triassic	Late Triassic		ichang Formation	Upper Member	0-228	Mudstone, yellowish-green, grayish-green, grayish-black, interbedded with sandstone, siltstone, and shale; containing principal coal beds. Locally oil-shale of 4-14 m in the upper part.			Wayaobao Formation. 94-410 m. Fluvial and lake deposits, containing mineable coals, no. 1 and no. 3.  Yongping Formation. 95-183 m. Fluvial deposits and locally thin coal. Missing in the aouth and southwest of the basin.		Fifth Member	Totally about 1,300 m.	•	Late Triac
					Middle Member	95-200	Sandstone, siltstone, and mudstone. Grayish-green to yellowish-green, fine-grained sandstone; interbedded with siltstone and mudstone. Locally thin coal.					Fourth Member		•	
				Yan	Lower Member	210-325	and locally thin coal.	Hujiacun Formation. 172-383 m. Fluvial and lake deposits, containing thin coal in the south of the basin.		Third Member	1,300 11				
		Middle Triassic		gchuan mation	Upper Member	100-596	Mudstone, sandstone, siltstone, shale, and oil-shale. Grayish-green, yellowish- and pinkish-red mudstone and sandstone interbedded with siltstone snd grayish-black shale. Locally oil-shale of more than 30 m thick, and thin coal.		Yanchang	Tongchusn Formation. 100-447 m. Fluvial and lake deposits, containing thin coal in the north and southwest parts of the basin.	Second Member	•	•		
				Ton	Lower Member		Sandstone. Grayish-green, yellowish- and pinkish-red, intercalated with shale, siltstone, and mudstone in the upper part. Locally thin coal.					First Member			
				Ermaying Formation		350-813	Sandstone and mudstone. Grayish— to yellowish—green and purplish—gray sandstone; interbedded with purplish—red to dull purplish—red mudstone. Generally in the lower part of the formation, coarse detritus is dominant.			39					Middi Trias
		Early Triassic		3		110-131	Mudstone. Brick red or orange red, intercalated with s small amount of sandstone and grayish-green mudstone lenses.								Early Triass
				4		160-400	Sandstone. Grsyish-white, purplish-red, snd grayish- purple, locally containing conglomerate.								
	Permian	Late Permian	Shiqianfeng Formation												

N.a., not available.
 Figures of thickness vary in accord with individual investigation.
 Heshanggou Formation.
 Liujiagou Formation.